Sierra On-Line, Inc.

Outpost 2: Divided Destiny

Strategy Guide: Colony and Multiplayer Games

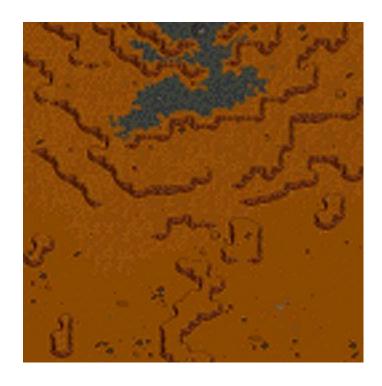
Multiplayer Game Maps

Two-Player Maps



"Ambush Alley"
Players
Two
Size
64 x 64
Scenarios
Last One Standing

Map
"Beach Party"
Players
Two
Size
128 x 128
Scenarios
Land Rush
Last One Standing
Resource Race





"Close Encounter"
Players
Two
Size
128 x 64
Scenarios
Land Rush
Last One Standing
Resource Race

Map
"Great Divide"
Players
Two
Size
128 x 64
Scenarios
Land Rush
Last One Standing

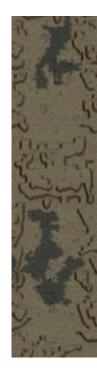




Map
"Labyrinth"
Players
Two
Size
128 x 128
Scenarios
Last One Standing

Map
"River of Fire"
Players
Two
Size
64 x 128
Scenarios
Last One Standing





Map
"Twin Valleys"
Players
Two
Size
64 x 256
Scenarios
Midas

Map
"Wishbone"
Players
Two
Size
128 x 64
Scenarios
Last One Standing



Three-Player Maps

Map
"Biohazard"
Players
Three
Size
128 x 128
Scenarios
Space Race





"Three's a Crowd"
Players
Three
Size
128 x 128
Scenarios
Land Rush
Last One Standing
Midas
Resource Race
Space Race

Four-Player Maps



Map
"Barren Land"
Players
Four
Size
256 x 256
Scenarios
Land Rush
Midas

Map
"Coliseum"
Players
Four
Size
128 x 128
Scenarios
Last One Standing
Midas





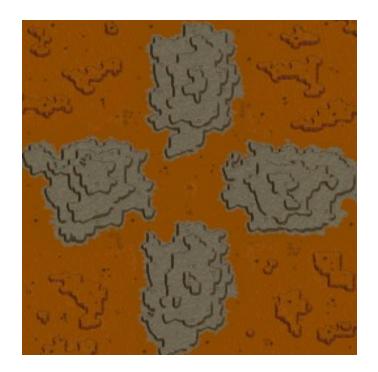
"Crash Zone"
Players
Four
Size
256 x 128
Scenarios
Last One Standing
Resource Race
Space Race

Map
"Double Cross"
Players
Four
Size
128 x 128
Scenarios
Last One Standing
Resource Race





Map
"The Rift"
Players
Four
Size
256 x 128
Scenarios
Land Rush
Last One Standing
Midas
Space Race

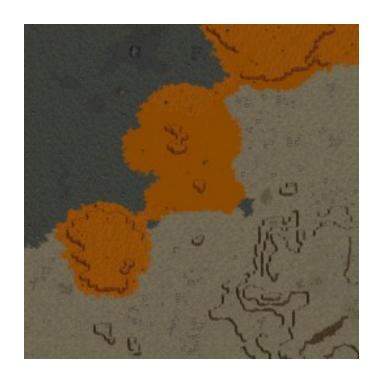


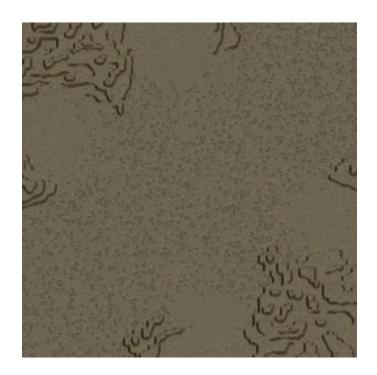
"Four Mesas"
Players
Four
Size
256 x 256
Scenarios
Land Rush
Last One Standing

Map
"Hidden Treasure"
Players
Four
Size
128 x 128
Scenarios
Midas



Map
"Olympus Mons"
Players
Four
Size
256 x 256
Scenarios
Last One Standing
Resource Race





Map
"Rock Garden"
Players
Four
Size
256 x 256
Scenarios
Land Rush
Resource Race
Space Race

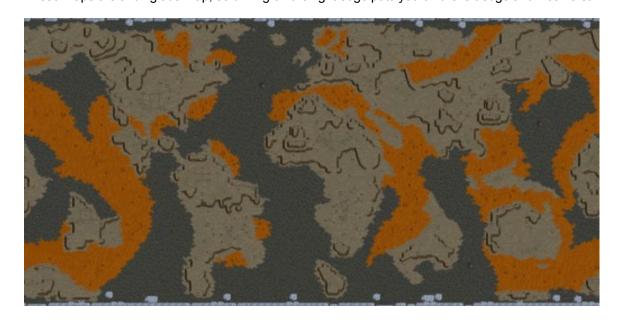
Map
"Unsettled Earth"
Players
Four
Size
128 x 128
Scenarios
Land Rush
Last One Standing



Six-Player Maps



Map (below) "Axen's World" Map (above) "Around the World" Players Players Six Six Size Size 512 x 256 512 x 256 **Scenarios Scenarios** Land Rush Land Rush Last One Standing Last One Standing Space Race Resource Race These maps are a full-globe map, so driving off the right edge puts you on the left edge and vice versa.



Map
"Allied Siege"
Players
Six
Size
128 x 128
Scenarios
Last One Standing





"Root Canal"
Players
Six
Size
256 x 128
Scenarios
Land Rush
Last One Standing
Space Race

Research

Most of the topics available in the two Campaign Games are also available in the Colony and Multiplayer Games, which share a research tree. However, because these games are not based on a series of missions, the predecessors of the various topics are somewhat different than in the Campaign Game. In some cases the research point costs and labs at which a topic may be studies are different. In this document, we have listed all of the research topics available in Colony and Multiplayer Games. These listings contain the following items:

- **Topic**. The topic name, as it is displayed in the Topic Selection display in the Command Pane.
- **Predecessor**. The names of any topics which must be completed before this one is available. Some topics have no predecessor; these are available for research at the beginning of the mission.
- **Cost**. The number of research points required to complete the topic. The rate at which points are accumulated depends on the number of Scientists assigned to the topic, the maximum number of Scientists which may be assigned, and the level of Morale. See **Research** in the *General Gameplay Strategy Guide*.
- Sci. The maximum number of Scientists which may be assigned to this topic.
- Lab. The type of lab, Basic, Standard, or Advanced, at which this topic may be researched.
- **Teaser**. The preliminary description of the goals and background of this project, shown in the Assign Scientists display in the Command Pane.
- **Description**. The post-completion description of the topic, shown in the Research Summary display (available as part of the Labs report) in the Command Pane.
- **Result**. The effect of completing this topic. In general, topics will either allow construction of a new structure, vehicle, or weapon, or will improve an existing structure, vehicle, or weapon.

Eden Research

Alphabetical Listing of Research Topics

Topic	Predecessor	Cost	Sci	Lab
Acid Weaponry	Advanced Combat Chassis	3500	16	Adv
_	Vulcanology			
Teaser	Our Common Ore Smelters produce a number of toxic			
	of Common Ore into Common Metals. We believe we	e can use these	wastes in	a new
_	weapons system.			
DESCRIPTION	Our Acid Cloud turrets fire a projectile which releases			
	eat through even the toughest armor. The cloud disso		et period, b	ut any
D#	target caught within the cloud will take heavy damage.	=		
Result	Makes the Acid Cloud weapon available.	0000	47	A -L -
Advanced Armoring		3000	17	Adv
Toppor	Enhanced Defensive Fortifications	wa sama anina	ff application	one on
Teaser	The technologies developed by our space program ha New Terra. One of these is an improvement to the an			
	our vehicles.	moi systems w	e use on s	orne or
DESCRIPTION	Materials research done as part of our space program	hae regulted in	an allov v	ell suiter
DESCRIPTION	for use in combat vehicle armor.	rrias resulted ii	i ai i ailoy vi	ren sunec
Result	Upgrades armor of Lynx (to Medium) and Panther (to	Heavy)		
Advanced Combat	· · · · · · · · · · · · · · · · · · ·	2000	13	Adv
Advanced Combat	Mobile Weapons Platform	2000	10	Auv
	Rare Ore Processing			
Teaser	While the Lynx has generally been a satisfactory design	on it has prove	n to have a	short life
. 00.00.	expectancy in combat. Our defenses require a heavie			
DESCRIPTION	The Panther medium combat chassis, based on the s			
	and Cargo Truck, is a heavier, better armored defende			
	Although slower than the Lynx, its greater durability in			
	fenses.		•	
Result	Allows production of Panthers at the Vehicle Factory.			
Advanced Robotic M	Manipulator Arm Robot-Assist Mechanic	2800	16	Std
Teaser	Certain units, such as the ConVec, use manipulator a	rms to accompl	ish comple	ex tasks.
	Our cybernetic experts have a proposal for improving			
	manipulator arms.		_	
DESCRIPTION	Several small refinements to the manipulator arms of t	these units, suc	h as recor	nfigured
	joints, use of higher tensile strength metals in construc			
	up to a substantial improvement in the production and			
Result	Improves the productivity of ConVecs, Earthworkers,	Robo-Dozers, I	Repair Veh	nicles,
	and Garage by 25 percent. (Improves structure kit de	ployment, Tube	and Wall	construc
	tion, repair, and bulldozing times.)			
Advanced Vehicle F			. 11	Std
Teaser	Several of the vehicle models we use are powered by			
	work in High-Temperature Superconductivity may be	applicable to ar	ımprovem	ient of
DECORPTION	this power plant.	stallad in all C==	ao Trucks	Dobo
DESCRIPTION	The new R-3000 series cool-fusion plant has been ins			
	Dozers, Earthworkers, replacing the earlier R-2000 me Temperature Superconductivity technology has increase			
Result	Improves Cargo Truck, Robo-Dozer, and Earthworker		OI LITESE VE	enicies.
Artificial Lightning	Increased Capacitance Circuitry	4000	18	Adv
Teaser	A new weapons system proposal has been submitted			
i casci				
				apiu uis-
	dielectric insulator produced by our Increased Capacit			
	charge of a bank of capacitors could create an artificia	al lightning strike	of massiv	e power.
	charge of a bank of capacitors could create an artificia The difficulty is in targeting the strike to strike enemy u	al lightning strike	of massiv	e power.
DESCRIPTION	charge of a bank of capacitors could create an artificia The difficulty is in targeting the strike to strike enemy u charge.	al lightning strike units, rather thar	of massiv n a random	e power. dis-
DESCRIPTION	charge of a bank of capacitors could create an artificia The difficulty is in targeting the strike to strike enemy u charge. Our artificial lightning weapon, dubbed Thor's Hamme	al lightning strike units, rather than er, is the most po	of massive of a random owerful we	e power. dis- apon we
DESCRIPTION	charge of a bank of capacitors could create an artificia The difficulty is in targeting the strike to strike enemy u charge. Our artificial lightning weapon, dubbed Thor's Hamme have ever developed. This targeted lightning strike is	al lightning strike units, rather than er, is the most po	of massive of a random owerful we	e power. dis- apon we
	charge of a bank of capacitors could create an artificia The difficulty is in targeting the strike to strike enemy u charge. Our artificial lightning weapon, dubbed Thor's Hamme have ever developed. This targeted lightning strike is units with a single shot!	al lightning strike units, rather than er, is the most po	of massive of a random owerful we	e power. dis- apon we
Result	charge of a bank of capacitors could create an artificia The difficulty is in targeting the strike to strike enemy u charge. Our artificial lightning weapon, dubbed Thor's Hamme have ever developed. This targeted lightning strike is units with a single shot! Makes the Thor's Hammer weapon available.	al lightning strike units, rather than er, is the most po capable of dest	e of massiven a random owerful we proying sma	e power. I dis- apon we all enemy
Result Automated Diagnosie	charge of a bank of capacitors could create an artificia The difficulty is in targeting the strike to strike enemy u charge. Our artificial lightning weapon, dubbed Thor's Hamme have ever developed. This targeted lightning strike is units with a single shot! Makes the Thor's Hammer weapon available. ic Examinations Health Maintenance	al lightning strike units, rather than er, is the most po capable of dest 1500	e of massiven a random owerful we proying sma	e power. I dis- apon we all enemy
Result	charge of a bank of capacitors could create an artificia The difficulty is in targeting the strike to strike enemy u charge. Our artificial lightning weapon, dubbed Thor's Hamme have ever developed. This targeted lightning strike is units with a single shot! Makes the Thor's Hammer weapon available. IC Examinations Health Maintenance The increase in our population is straining the capacity	al lightning strike units, rather than r, is the most procapable of dest 1500 y of our Medical	e of massiven a random owerful we proying sma	e power. I dis- apon we all enemy
Result Automated Diagnosic Teaser	charge of a bank of capacitors could create an artificia The difficulty is in targeting the strike to strike enemy u charge. Our artificial lightning weapon, dubbed Thor's Hamme have ever developed. This targeted lightning strike is units with a single shot! Makes the Thor's Hammer weapon available. IC Examinations Health Maintenance The increase in our population is straining the capacity be able to increase their capacity by automating some	al lightning strike units, rather than r, is the most procapable of dest 1500 y of our Medical e tasks.	of massiven a random owerful we roying small	e power. I dis- apon we all enemy Std We may
Result Automated Diagnosic	charge of a bank of capacitors could create an artificia The difficulty is in targeting the strike to strike enemy u charge. Our artificial lightning weapon, dubbed Thor's Hamme have ever developed. This targeted lightning strike is units with a single shot! Makes the Thor's Hammer weapon available. IC Examinations Health Maintenance The increase in our population is straining the capacity	al lightning strike units, rather than or, is the most procapable of dest 1500 y of our Medical e tasks. eloped which ca	e of massiven a random owerful we roying small 8 Centers.	e power. I dis- apon we all enemy Std We may

Command Module		Skydock	3600	16	۸۵۰
	Docograhara as	Skydock			Adv
Teaser		mbing through the partially-re			
		d a portion of the specification			I NIS WIII
D	•	lopment of the command and	,	•	- 6 41
DESCRIPTION		Savant computer systems, wo			
		ule. This is the most sophistic			
		of guidance control, power dire	ection, and self-mainter	nance, withou	ut hu-
	man intervention				
Result	Allows production	on of the Command Module a			
Consumerism		Environmental Psychology	1000	6	Std
Teaser		re a number of goods and ser			
		ething more: items that they ca			A few
		asked for time at our research			
DESCRIPTION		to the psychological benefits o			
		facility in which a variety of go	ods can be produced.	These items	s can in-
		m increase in Morale.			
Result		on of Consumer Goods Facto	•	Structure Fa	•
Cybernetic Teleoper		none	800	10	Std
Teaser		cuation from our original colon			
		hnology called Teleoperation.			
		s to Teleoperate our vehicles.			
		en on part of this burden, but			
		nputer vehicle control system.		peration pro	ject
		s to operate a much larger nu		_	
DESCRIPTION		as resulted in a specialized va			
		s and communications capab			
		expensive Noesis computer,			
		nuch of the computing burden	from the Robot Comm	and Center t	to the ve-
	hicle itself.				
Result	•	on of Robot Command Center	and Vehicle Factory s	tructure kits	at the
	Structure Facto	ry.			
Directional Magnetic	Fields	Advanced Combat Chassis		14	Adv
		Independent Turret Power S	Systems		
Directional Magnetic Teaser	Some of our res	Independent Turret Power Searchers, reviewing the milita	Systems ry database brought fro	om Earth, ha	ive found
	Some of our res	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that us	Systems ry database brought fro ses a directional magne	om Earth, ha	ive found
	Some of our res an abstract of a projectile. Altho	Independent Turret Power Searchers, reviewing the milita	Systems ry database brought fro ses a directional magne	om Earth, ha	ive found
Teaser	Some of our res an abstract of a projectile. Altho device.	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon wer	Systems ry database brought fro ses a directional magne e lost, we believe we c	om Earth, ha etic field to pr an recreate	ropel a such a
	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon were tuses an electric current to	Systems ry database brought fro ses a directional magne se lost, we believe we co	om Earth, ha etic field to pr an recreate	ropel a such a
Teaser	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me	Independent Turret Power Searchers, reviewing the milital proposal for a weapon that usugh plans for the weapon were uses an electric current to eters per second. The weapon	Systems ry database brought fro ses a directional magne se lost, we believe we o accelerate a projectile a consists of two coppe	om Earth, ha etic field to pr an recreate to velocities er rails and th	ropel a such a s of sev- ne R-10
Teaser	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me cool-fusion pow	Independent Turret Power Searchers, reviewing the milital proposal for a weapon that usugh plans for the weapon were tuses an electric current to eters per second. The weapon er cell, which charges a capa	Systems ry database brought fro ses a directional magne se lost, we believe we co accelerate a projectile a consists of two coppe- citor. The capacitor is o	om Earth, ha etic field to pr an recreate to velocities er rails and the discharged in	ropel a such a s of sev- ne R-10 nto one
Teaser	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me cool-fusion pow rail and the curr	Independent Turret Power searchers, reviewing the milital proposal for a weapon that usugh plans for the weapon were uses an electric current to eters per second. The weapon er cell, which charges a capaent flows through the projectile	Systems ry database brought fro ses a directional magne se lost, we believe we co accelerate a projectile a consists of two coppe- citor. The capacitor is o	om Earth, ha etic field to pr an recreate to velocities er rails and the discharged in	ropel a such a s of sev- ne R-10 nto one
Teaser Description	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me cool-fusion pow rail and the curr magnetic field th	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon werret uses an electric current to eters per second. The weapor er cell, which charges a caparent flows through the projectile at accelerates the projectile.	Systems ry database brought fro ses a directional magne se lost, we believe we co accelerate a projectile a consists of two coppe- citor. The capacitor is o	om Earth, ha etic field to pr an recreate to velocities er rails and the discharged in	ropel a such a s of sev- ne R-10 nto one
Teaser Description Result	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me cool-fusion pow rail and the curr magnetic field the Makes the Rail	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon werret uses an electric current to eters per second. The weapon er cell, which charges a capaent flows through the projectile nat accelerates the projectile. Gun weapon available.	Systems ry database brought fro ses a directional magne e lost, we believe we o accelerate a projectile a consists of two coppe- citor. The capacitor is o e into the second rail, p	om Earth, ha etic field to pr an recreate to velocities er rails and the discharged in roducing a d	ove found ropel a such a s of sev- ne R-10 nto one irectional
Teaser DESCRIPTION Result DIRT Procedural Rev	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me cool-fusion pow rail and the curr magnetic field the Makes the Rail	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon wereret uses an electric current to eters per second. The weapor er cell, which charges a capa ent flows through the projectile at accelerates the projectile. Gun weapon available. Emergency Response Systematics and the projectile of the proj	Systems ry database brought fro ses a directional magne e lost, we believe we co accelerate a projectile a consists of two coppe- citor. The capacitor is o e into the second rail, p	om Earth, ha etic field to pr an recreate to velocities er rails and the discharged in roducing a d	ove found ropel a such a s of sev- ne R-10 nto one irrectional
Teaser Description Result	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me cool-fusion pow rail and the curr magnetic field the Makes the Rail view As our colony g	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon were tuses an electric current to eters per second. The weapon er cell, which charges a caparent flows through the projectile at accelerates the projectile. Gun weapon available. Emergency Response Systrows, more and more resource.	Systems ry database brought fro ses a directional magne e lost, we believe we co a accelerate a projectile a consists of two coppe- citor. The capacitor is o e into the second rail, p	om Earth, ha etic field to pr an recreate et to velocities er rails and the discharged in roducing a d	ove found ropel a such a such a sof sevene R-10 onto one irrectional
Teaser DESCRIPTION Result DIRT Procedural Rev	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me cool-fusion pow rail and the curr magnetic field the Makes the Rail view As our colony g adequate protect	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon wereret uses an electric current to eters per second. The weapor er cell, which charges a caparent flows through the projectile at accelerates the projectile. Gun weapon available. Emergency Response Systrows, more and more resource tion. DIRT members have militare projection.	Systems ry database brought fro ses a directional magne e lost, we believe we con accelerate a projectile a consists of two coppe- citor. The capacitor is one into the second rail, possible ems 1800 es must be invested in ade several suggestion	om Earth, ha etic field to pr an recreate et to velocities er rails and the discharged in roducing a d	ove found ropel a such a such a sof sevene R-10 onto one irrectional
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Teaser DESCRIPTION Result DIRT Procedural Rev	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me cool-fusion pow rail and the curn magnetic field the Makes the Rail view As our colony g adequate protect this burden. A r Using suggestice	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon were tuses an electric current to eters per second. The weapor er cell, which charges a caparent flows through the projectile and accelerates the projectile. Gun weapon available. Emergency Response Systrows, more and more resource tion. DIRT members have meview of methods and procedons made by DIRT members,	Systems ry database brought fro ses a directional magne e lost, we believe we consists of two coppe- citor. The capacitor is one into the second rail, positions ems 1800 es must be invested in ade several suggestion ures is in order. our emergency respor	om Earth, ha etic field to pran recreate to velocities er rails and the discharged in roducing a domination of DIRTs to mas that may a see proceduring the proceduring and the proceduring the	ove found ropel a such a such a sof sevene R-10 nto one lirectional Std aintain reduce
Teaser DESCRIPTION Result DIRT Procedural Rev Teaser	Some of our resan abstract of a projectile. Althodevice. The Rail Gun tueral hundred me cool-fusion powrail and the curmagnetic field the Makes the Rail view As our colony gadequate protect this burden. Ar Using suggestic been improved.	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon were tuses an electric current to eters per second. The weapor er cell, which charges a caparent flows through the projectile and accelerates the projectile. Gun weapon available. Emergency Response Systrows, more and more resourction. DIRT members have mereive of methods and procesure made by DIRT members, Among the improvements ar	Systems ry database brought froses a directional magnese lost, we believe we dead accelerate a projectile a consists of two coppecitor. The capacitor is desired in the second rail, per mems 1800 es must be invested in ade several suggestion ures is in order. our emergency respore an additional team mergency and accelerate programmer and accelerate	om Earth, ha etic field to pran recreate to velocities er rails and the discharged in roducing a domination of DIRTs to mas that may a see proceduring the proceduring and the proceduring the	ove found ropel a such a such a sof sevene R-10 nto one lirectional Std aintain reduce
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Teaser DESCRIPTION Result DIRT Procedural Rev Teaser	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me cool-fusion pow rail and the curm magnetic field the Makes the Rail view As our colony gadequate protect this burden. A rusing suggestic been improved. power-assist an Increases DIRT	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon were tuses an electric current to eters per second. The weapor er cell, which charges a caparent flows through the projectile and accelerates the projectile. Gun weapon available. Emergency Response Systrows, more and more resourction. DIRT members have mereive of methods and procesure made by DIRT members, Among the improvements ar	Systems ry database brought fro ses a directional magne e lost, we believe we o accelerate a projectile a consists of two coppe- citor. The capacitor is a e into the second rail, p mems 1800 es must be invested in ade several suggestion ures is in order. our emergency respor e an additional team m ural breach patch.	om Earth, ha etic field to proper an recreate to velocities er rails and the discharged in roducing a description of the DIRTs to means that may a see procedure ember, rede	ove found ropel a such a such a sof sevne R-10 nto one directional Std aintain reduce res have signed
Teaser DESCRIPTION Result DIRT Procedural Rev Teaser DESCRIPTION Result	Some of our res an abstract of a projectile. Altho device. The Rail Gun tu eral hundred me cool-fusion pow rail and the curn magnetic field the Makes the Rail view As our colony gadequate protect this burden. A rusing suggestic been improved. power-assist an Increases DIRT ment to 3.	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon were tuses an electric current to eters per second. The weapon er cell, which charges a caparent flows through the projectile. Gun weapon available. Emergency Response Systrows, more and more resource tion. DIRT members have meview of methods and proceed on the members, and a new type of structure protection capacity to 15 structure.	Systems ry database brought fro ses a directional magne e lost, we believe we o accelerate a projectile a consists of two coppe- citor. The capacitor is o e into the second rail, p ems 1800 es must be invested in ade several suggestion ures is in order, our emergency respor e an additional team m ural breach patch, ctures; increases DIRT	om Earth, ha etic field to pr an recreate to velocities er rails and tr discharged in roducing a d 10 DIRTs to m ns that may n see procedur ember, rede	sye found ropel a such a sof sev-ne R-10 nto one directional Std aintain reduce res have signed quire-
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Teaser DESCRIPTION Result DIRT Procedural Rev Teaser DESCRIPTION Result	Some of our resan abstract of a projectile. Altho device. The Rail Gun tueral hundred me cool-fusion powrail and the curr magnetic field the Makes the Rail view As our colony gadequate protectinis burden. Ar Using suggestic been improved. power-assist an Increases DIRT ment to 3. s Systems One of our rese	Independent Turret Power's searchers, reviewing the milital proposal for a weapon that usugh plans for the weapon were tuses an electric current to eters per second. The weapon er cell, which charges a capatent flows through the projectile at accelerates the projectile. Gun weapon available. Emergency Response Systrows, more and more resource tion. DIRT members have meview of methods and procesons made by DIRT members, Among the improvements are mor, and a new type of structure protection capacity to 15 structure. Advanced Combat Chassis Reinforced Vehicle Construarch Scientists has proposed	Systems ry database brought fro ses a directional magne e lost, we believe we con accelerate a projectile a consists of two coppe- citor. The capacitor is one e into the second rail, p ems 1800 es must be invested in ade several suggestion ures is in order. our emergency respor e an additional team m ural breach patch. ctures; increases DIRT 4000 ction doubling the rate of fire	om Earth, ha etic field to program recreate to velocities or rails and the discharged in roducing a domination of the procedure of the procedu	sve found ropel a such a such a sof sevene R-10 nto one irrectional Std aintain reduce res have esigned quire- Adv
Teaser DESCRIPTION Result DIRT Procedural Revalues Teaser DESCRIPTION Result Dual-Turret Weapon	Some of our resan abstract of a projectile. Althodevice. The Rail Gun tueral hundred me cool-fusion powrail and the curr magnetic field the Makes the Rail view As our colony gadequate protect this burden. A rusing suggestic been improved. power-assist an Increases DIRT ment to 3. s Systems One of our rese by installing a di	Independent Turret Power's searchers, reviewing the militar proposal for a weapon that usugh plans for the weapon were tuses an electric current to seters per second. The weapon er cell, which charges a capatent flows through the projectile. Gun weapon available. Emergency Response Systrows, more and more resourcation. DIRT members have meview of methods and procedons made by DIRT members, Among the improvements are mor, and a new type of structure protection capacity to 15 structure. Advanced Combat Chassis Reinforced Vehicle Construarch Scientists has proposed and weapons turret. This may	Systems ry database brought fro ses a directional magne e lost, we believe we con accelerate a projectile a consists of two coppe- citor. The capacitor is one e into the second rail, p ems 1800 es must be invested in ade several suggestion ures is in order. our emergency respor e an additional team m ural breach patch. ctures; increases DIRT 4000 ction doubling the rate of fire	om Earth, ha etic field to program recreate to velocities or rails and the discharged in roducing a domination of the procedure of the procedu	such a su
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Teaser DESCRIPTION Result DIRT Procedural Revalues Teaser DESCRIPTION Result Dual-Turret Weapon	Some of our resan abstract of a projectile. Altho device. The Rail Gun tueral hundred me cool-fusion powrail and the cummagnetic field the Makes the Rail view As our colony gadequate protect this burden. Ar Using suggestic been improved. power-assist an Increases DIRT ment to 3. S Systems One of our rese by installing a dend this destruct the dual-turret view.	Independent Turret Power Searchers, reviewing the militar proposal for a weapon that usugh plans for the weapon were tuses an electric current to eters per second. The weapon er cell, which charges a capatent flows through the projectile at accelerates the projectile. Gun weapon available. Emergency Response Systrows, more and more resource tion. DIRT members have meview of methods and procesons made by DIRT members, Among the improvements armor, and a new type of struction rotation capacity to 15 structions are constructed to the construction of the construc	Systems ry database brought froses a directional magne e lost, we believe we concentrate a projectile a consists of two coppe- citor. The capacitor is one into the second rail, p ems 1800 es must be invested in ade several suggestion ures is in order. our emergency respor e an additional team m ural breach patch. ctures; increases DIRT 4000 ction doubling the rate of fire be just the decisive ad e of twice the effective	om Earth, ha etic field to proper an recreate of the velocities or rails and the discharged in roducing a discharge of the velocities of t	sve found ropel a such a such a sof sevene R-10 nto one irrectional Std aintain reduce res have signed quire-Adv pat units need to
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Teaser DESCRIPTION Result DIRT Procedural Revales Teaser DESCRIPTION Result Dual-Turret Weapon Teaser	Some of our resan abstract of a projectile. Altho device. The Rail Gun tueral hundred me cool-fusion powrail and the cummagnetic field the Makes the Rail view As our colony gadequate protect his burden. Ar Using suggestic been improved. power-assist an Increases DIRT ment to 3. s Systems One of our rese by installing a diend this destruct the dual-turret vingle-turret vingle-turret presupport system	Independent Turret Power Searchers, reviewing the militar proposal for a weapon that usugh plans for the weapon were tuses an electric current to eters per second. The weapon er cell, which charges a capatent flows through the projectile. Gun weapon available. Emergency Response Systrows, more and more resource tion. DIRT members have meview of methods and proceed the projectile in the projectile in the projectile in the projectile. The projectile is a second to be	Systems ry database brought fro ses a directional magne e lost, we believe we o accelerate a projectile a consists of two coppe- citor. The capacitor is o e into the second rail, p ems 1800 es must be invested in ade several suggestion ures is in order. our emergency respor e an additional team m ural breach patch. ctures; increases DIRT 4000 ction doubling the rate of fire be just the decisive ad e of twice the effective of the component only be mounted on the	om Earth, ha etic field to produce to velocities er rails and the discharged in roducing a description of the producing and the discharged in roducing a description of the procedure ember, redective to the procedure ember, redective to the procedure ember of our combination of the produce of the produce the procedure embers. The produce the procedure embers are produced to the produce the procedure embers are produced to the produce the produced the produc	s of sev- ne R-10 nto one irrectional Std aintain reduce res have signed quire- Adv cat units need to f their ertain y com-
Teaser DESCRIPTION Result DIRT Procedural Revales Teaser DESCRIPTION Result Dual-Turret Weapon Teaser	Some of our resan abstract of a projectile. Altho device. The Rail Gun tueral hundred me cool-fusion powrail and the cummagnetic field the Makes the Rail view As our colony gadequate protect his burden. Ar Using suggestic been improved. power-assist an Increases DIRT ment to 3. S Systems One of our rese by installing a diend this destruct The dual-turret vingle-turret vingle-turret presupport system bat chassis, a tr	Independent Turret Power Searchers, reviewing the milita proposal for a weapon that usugh plans for the weapon were tuses an electric current to eters per second. The weapor er cell, which charges a capatent flows through the projectile at accelerates the projectile. Gun weapon available. Emergency Response Systrows, more and more resourcetion. DIRT members have meview of methods and procesons made by DIRT members, Arnong the improvements are mor, and a new type of structure protection capacity to 15 structure. Advanced Combat Chassis Reinforced Vehicle Construarch Scientists has proposed all weapons turret. This may titve conflict.	Systems ry database brought fro ses a directional magne e lost, we believe we o accelerate a projectile a consists of two coppe- citor. The capacitor is o e into the second rail, p ems 1800 es must be invested in ade several suggestion ures is in order. our emergency respor e an additional team m ural breach patch. ctures; increases DIRT 4000 ction doubling the rate of fire be just the decisive ad e of twice the effective of 70% of the component only be mounted on the arthworker and Robo-l	om Earth, ha etic field to produce to velocities er rails and the discharged in roducing a description of the producing and the discharged in roducing a description of the procedure ember, redective to the procedure ember, redective to the procedure ember of our combination of the produce of the produce the procedure embers. The produce the procedure embers are produced to the produce the procedure embers are produced to the produce the produced the produc	s of sev- ne R-10 nto one irrectional Std aintain reduce res have signed quire- Adv cat units need to f their ertain y com-

Efficiency Engineerii	ng Consumerism	4000	16	Std
	Space Program			
Teaser	All of our factories use a similar assembly-line method workers, reading through the databases of industrial enhance proposed a study of our factories, to look for positioning.	ngineering techr	niques from	n Earth,
DESCRIPTION	Using time-and-motion analysis of the various product veloped several new tools and techniques that reduce ucts by 25%.			
Result	Reduces production time at the Consumer Goods Fac and Vehicle Factory by 25 percent.	ctory, Spaceport	, Structure	Factory,
Electromagnetic Puls	sing Advanced Combat Chassis	2400	11	Adv
Teaser	Independent Turret Power Systems Since the early development of atomic weaponry, scie ruptive effect of the electromagnetic pulse (EMP) on el	lectronic circuitry	/. Our scie	
DESCRIPTION	believe they can use this knowledge to produce a defe Electromagnetic pulse (EMP) grenades, fired from Gu duce a disruption in the power distribution circuitry of a	ard Posts or cor	nbat chass	sis, pro- ange.
Result	This will briefly render the target inoperable. Makes the EMP weapon available.			
Emergency Respons		1000	10	Std
Teaser Description	Given the new dangers confronting our colony, we need than our emergency shelters are able to provide. This tools, and techniques to respond to structural damage Disaster Instant Response Teams (DIRTs) can reduce DIRT structure has been deployed, DIRT members transfer to the conference of the color of t	project will deve e damage to str ained in emerge	lop new muctures. Concy medical	ethods, ince the
Dogult	and structural reinforcement will be on the scene in a r		S.	
Result Enhanced Defensive		1600	12	Std
Teaser	Rare Ore Processing With tensions increasing between the colonies, we mu possible.	ıst make our def	enses as s	strong as
DESCRIPTION	The armor applied to our Guard Posts is now equal to tures.	that protecting o	our most vi	tal struc-
Result	Upgrades Guard Post armor to Heavy.			
Environmental Psych	hology none	1500	12	Std
Teaser Description	Environmental Psychology studies the relationships be environments in which they occur. The forced evacua creased the stress on our Colonists; additional research a more supportive environment and improve Morale. Our expanded knowledge of the causes and effects of situational stressors has enabled us to redesign our Research.	ation of our old co ch in this field ma f crowding and e esidences. We	olony site h ay help us environmer	nas in- to create ntal and
Desuit	more people in the same space, while improving Mora	ile.		
Result	Increases Residence capacity to 35 Colonists.	1000	40	01.1
Expanded Housing Teaser	Environmental Psychology As our population has grown, so has the number of Re house our people, making the colony more difficult to r	manage. A large	er Residen	
DESCRIPTION	ity, serving more colonists, would reduce some of our The new Advanced Residence structure provides our cious quarters, yet reduces administrative and mainter slightly higher cost.	colonists with la	rger, more	
Result	Allows production of Advanced Residence structure ki	its at the Structu	re Factory	
Explosive Charges	Mobile Weapons Platform	900	11	Std
Teaser	A simple and inexpensive weapons system could be of sive charges into a weapons turret. Although the vehiconation, the size of the charge could quickly incapacitate.	developed by placed would be des	acing high o	explo- the det-
DESCRIPTION	The Starflare turret is a large trinitrotoluene (TNT) bom Lynx or Panther combat chassis, or installed into a Gu damage all units within range.	ıb, which may be	e placed or	n the
Result	Makes the Starflare weapon available.			
Extended-Range Proje		4000	18	Adv
Teaser	Electromagnetic Pulsing Our after-action equipment performance reports show nism used in our EMP and Acid Cloud weapons turret			
Description	cause an equipment failure, our engineers would like to The redesigned launch mechanism used in both of the	o revisit the desi	gn of this la	auncher.
DESCRIPTION	maximum range of these weapons.	ese weapons na	s ici igii ici i	eu ii ie

Fueling Systems	Ion Drive Module	3600	16	Adv
Teaser	Because our starship will have a dual-propulsion system			
i casei				
	The Ion Drive will be fueled by liquid mercury, which mus			
	The Fusion Drive uses hydrogen as fuel. This may be g			
	suggest developing a fuel-gathering craft which can colle	ect nyarogen iror	n a piane	ts at-
	mosphere.			
DESCRIPTION	The Fueling Systems consist of storage tanks for liquid n			
	Drive, and the Fuel Shark, an autonomous ramscoop ve			
	ers of the planet's atmosphere to gather hydrogen fuel fo			
	The Fuel Shark will substantially reduce the number of la	unches necess	ary to pre	pare
	the starship for flight.			
Result	Allows production of the Fueling Systems at the Spacepo	ort.		
Fusion Drive Module	Ion Drive Module	3600	16	Adv
Teaser	The Ion Drive we have developed is well-suited for use in	n interstellar spa	ce, but fo	r travel
	within a solar system, a fusion motor will greatly reduce to	ravel time.		
DESCRIPTION	Our fusion propulsion system plans are complete. The F		dule conta	ains
	both the fusion motor, used for high-acceleration in-syste			
	which store the hydrogen fuel used in this motor. Once we			
	space, this fusion motor will provide power to the Ion Driv		a 11 1101 0101	
Result	Allows production of the Fusion Drive Module at the Spa			
Geothermal Power		2200	11	Ct4
	Rare Ore Processing		14	Std
Teaser	On Earth, a significant percentage of electric power was	generated by ge	eotnermai	power
	plants. Although New Terra does not have ground water	r like ⊨arth, and	tneretore	cannot
	have the same kind of steam generation that Earth's geo			
	canic activity indicates a great deal of underground heat	that we may be	able to ta _l	p into
	to produce power.			
DESCRIPTION	Although New Terra does not have ground water, and the			
	derground steam and hot water that produced power on	Earth, the fumar	oles in thi	is area
	do contain molten salts and gasses that can be used sim	nilarly. The Geo	thermal P	lant is
	a less expensive and more stable power generation facili	ity than our curre	ent Tokan	nak
	plant.	•		
Result	Allows production of Geothermal Constructors (GeoCon	s) at the Vehicle	Factory.	
Grenade Loading Me	chanism Extended-Range Projectile Launcher	3600	18	Adv
Grenade Loading Me Teaser				-
	chanism Extended-Range Projectile Launcher Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro	ing weapons, th		
Teaser	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro	ing weapons, th vement.	e EMP ar	nd Cor-
	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some	ing weapons, the vement. The of our weapons are of our weapons are of our weapons are of the original transfer of the output of	e EMP ar	nd Cor- ad
Teaser	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less	ing weapons, th vement. e of our weapons s shock-resistan	e EMP ar s turrets h t that thos	ad se we
Teaser	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of	ing weapons, th vement. e of our weapons s shock-resistan	e EMP ar s turrets h t that thos	ad se we
Teaser DESCRIPTION	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system.	ing weapons, th vement. e of our weapons s shock-resistan	e EMP ar s turrets h t that thos	ad se we
Teaser DESCRIPTION Result	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire.	ing weapons, th vement. e of our weapons s shock-resistan f the system allo	e EMP ar s turrets h t that thos ws for a f	ad se we aster
Teaser DESCRIPTION Result Habitat Ring	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock	ing weapons, the vernent. The of our weapons is shock-resistant the system allows 3600	e EMP ar s turrets h t that thos ws for a fa	ad se we aster
Teaser DESCRIPTION Result	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage will	ing weapons, the vernent. The of our weapons is shock-resistant of the system allows 3600 to the bombar in the bom	e EMP ar s turrets h t that thos ws for a fa	ad cor- ad se we aster Adv
Teaser DESCRIPTION Result Habitat Ring	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage wil starship with radiation and dust particles. We must deve	ing weapons, the vernent. The of our weapons is shock-resistant of the system allows 3600 to the bombar in the bom	e EMP ar s turrets h t that thos ws for a fa	ad cor- ad se we aster Adv
Teaser DESCRIPTION Result Habitat Ring Teaser	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage wil starship with radiation and dust particles. We must deve against damage to the ship.	ing weapons, th vement. e of our weapons s shock-resistan f the system allo 3600 Il be the bombar lop some kind o	e EMP are sturrets he to that those was for a factor of formation of the f	ad cor- se we saster Adv the
Teaser DESCRIPTION Result Habitat Ring	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage wil starship with radiation and dust particles. We must deve against damage to the ship. Before and after our interstellar flight, our colonists will live.	ing weapons, the vement. The of our weapons is shock-resistant of the system allow the bombar lop some kind on the Habitat I	e EMP are sturrets he to that those was for a factor of formation of formation. The Ring. The	ad cor- ad se we aster Adv the on
Teaser DESCRIPTION Result Habitat Ring Teaser	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage wil starship with radiation and dust particles. We must deve against damage to the ship. Before and after our interstellar flight, our colonists will livit temporary quarters are shielded from radiation and small	ing weapons, the vement. The of our weapons is shock-resistant of the system allows a 600 for the bombar alop some kind of the Habitat I particle collision.	e EMP are sturrets he to that those was for a factor of formation of formation. The Ring. The	ad cor- ad se we aster Adv the on
Teaser DESCRIPTION Result Habitat Ring Teaser DESCRIPTION	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage wil starship with radiation and dust particles. We must deve against damage to the ship. Before and after our interstellar flight, our colonists will livit temporary quarters are shielded from radiation and small field generated by superconductive coils built into the hull	ing weapons, the vement. The of our weapons is shock-resistant of the system allows a 600 for the bombar alop some kind of the Habitat I particle collision.	e EMP are sturrets he to that those was for a factor of formation of formation. The Ring. The	ad cor- ad se we aster Adv the on
Teaser DESCRIPTION Result Habitat Ring Teaser DESCRIPTION Result	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage wil starship with radiation and dust particles. We must deve against damage to the ship. Before and after our interstellar flight, our colonists will live temporary quarters are shielded from radiation and small field generated by superconductive coils built into the hull Allows production of the Habitat Ring at the Spaceport.	ing weapons, the vement. The of our weapons is shock-resistant of the system allows a fine system allows a fine some kind of the habitat It particle collisions.	e EMP are sturrets he to that those was for a factor of formation of formation. The Ring. The	ad Cor- ad se we aster Adv the on ese agnetic
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Teaser DESCRIPTION Result Habitat Ring Teaser DESCRIPTION Result	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage wil starship with radiation and dust particles. We must deve against damage to the ship. Before and after our interstellar flight, our colonists will live temporary quarters are shielded from radiation and small field generated by superconductive coils built into the hull Allows production of the Habitat Ring at the Spaceport. none Although our emergency medical systems are adequate	ing weapons, the vernent. The of our weapons is shock-resistant of the system allows a shock of the system allows a shock of the system allows a shock of the bombar allows one kind of the Habitat I particle collision in the Habitat I of the Hab	e EMP ar s turrets h t that thos ws for a fa 16 dment of f protectic Ring. The ns by a m	Adv the on Std d dis-
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Teaser DESCRIPTION Result Habitat Ring Teaser DESCRIPTION Result Health Maintenance Teaser DESCRIPTION Result Heat Dissipation Systematics	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage wil starship with radiation and dust particles. We must deve against damage to the ship. Before and after our interstellar flight, our colonists will livit temporary quarters are shielded from radiation and small field generated by superconductive coils built into the hull Allows production of the Habitat Ring at the Spaceport. none Although our emergency medical systems are adequate asters, our people are suffering from a lack of regular me vast medical knowledge in our databases to develop a repractices. Medical Center personnel are trained in a variety of techr well as the treatment of illness and injury. Each Medical needs of up to 40 colonists, improving the health and mo Allows production of Medical Center structure kits at the stems Artificial Lightning Some of our weapons systems generate high levels of health and mo some and the superson of systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems generate high levels of health and mo some systems ge	ing weapons, the vement. The of our weapons is shock-resistant of the system allowed and the system and the s	e EMP ar s turrets h t that thos ws for a fa 16 dment of f protectic Ring. Thens by a m 7 ridents an accould exp maintenantive medioort the help y. Y. 18 tedly fired	Adv the agnetic Std d dis-loit the ance cine as ealth Adv in
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Teaser DESCRIPTION Result Habitat Ring Teaser DESCRIPTION Result Health Maintenance Teaser DESCRIPTION Result Heat Dissipation Systems	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage wil starship with radiation and dust particles. We must deve against damage to the ship. Before and after our interstellar flight, our colonists will livit temporary quarters are shielded from radiation and small field generated by superconductive coils built into the hull Allows production of the Habitat Ring at the Spaceport. none Although our emergency medical systems are adequate asters, our people are suffering from a lack of regular me vast medical knowledge in our databases to develop a repractices. Medical Center personnel are trained in a variety of technical as the treatment of illness and injury. Each Medical needs of up to 40 colonists, improving the health and mo Allows production of Medical Center structure kits at the stems Artificial Lightning Some of our weapons systems generate high levels of h combat. These weapons require a cooling-off period bef delay could be shortened by adding a heat dissipation sy Our new weapons turret heat sinks allow these weapons	ing weapons, the vement. The of our weapons is shock-resistant of the system allowed and the system and the s	e EMP are sturrets he to that those was for a fare affective and the second and t	Adv the ance cine as ealth Adv in Adv The ance cine as ealth Adv The
Teaser DESCRIPTION Result Habitat Ring Teaser DESCRIPTION Result Health Maintenance Teaser DESCRIPTION Result Heat Dissipation Systems	Tests of the reloading mechanism in our grenade launch rosive Acid have revealed some potential areas of impro The hydraulic grenade loading mechanism used in some been designed to handle ammunition that was much less currently have in use. Increasing the 'rattle' tolerances of loading system. Improves EMP and Acid Cloud rate of fire. Skydock One of the greatest dangers of our interstellar voyage wil starship with radiation and dust particles. We must deve against damage to the ship. Before and after our interstellar flight, our colonists will livit temporary quarters are shielded from radiation and small field generated by superconductive coils built into the hull Allows production of the Habitat Ring at the Spaceport. none Although our emergency medical systems are adequate asters, our people are suffering from a lack of regular me vast medical knowledge in our databases to develop a repractices. Medical Center personnel are trained in a variety of techr well as the treatment of illness and injury. Each Medical needs of up to 40 colonists, improving the health and mo Allows production of Medical Center structure kits at the starts. Artificial Lightning Some of our weapons systems generate high levels of h combat. These weapons require a cooling-off period bef delay could be shortened by adding a heat dissipation sy	ing weapons, the vement. The of our weapons is shock-resistant of the system allowed and the system of the allowed and the colon of th	e EMP are sturrets he to that those was for a fare affective and the second and t	Adv the ance cine as ealth Adv in Adv The ance cine as ealth Adv The

Heat Mining	Geothermal Power	1600	10	Std
	Our Geothermal Plants rely on the molten salts and gas			
Teaser	,			,
	ate power. Heat Mining, or Hot Dry Rock geothermal po			
	place Geothermal Plants in places without fumaroles by			
	bore wells, then capturing the steam produced when the	e water reaches	the hot roc	ks in
	the New Terran surface.			
DESCRIPTION	Our Heat Mining project has met with limited success. V	We have not be	en able to d	le-
	velop a viable geothermal plant that can be deployed aw	av from fumaro	les, but by	iniect-
	ing cold water into the fumarole, we have been able to in			
	thermal plants.	.0.0000 0.0000	, a. c. ca. c	
Result	Increases Geothermal Plant Power production to 650.			
High-Energy Ray-Com		4000	40	CF4
0 0, ,		4000	18	Std
Teaser	Some very ambitious high-energy physicists have subm			
	weapon. Their theory combines both microwave and la	ser projection w	itn a partici	е
	beam projector.			
DESCRIPTION	The High-Energy Ray-Composite (HERC) Projector is r			
	equipment needed to produce this energy/particle beam	is far too mass	ive for use	in a
	weapons turret, it is ideal for use as a meteor defense. U	Using the tracking	ng capabilit	ies of
	the Observatory, the HERC beam can destroy even the			
	shot — if it hits its target.	J		3
Result	Allows production of Meteor Defense structure kits at the	e Structure Fact	tory	
High-Temperature Su		1100	11	Adv
	, ,			
Teaser	Superconductivity is the ability of certain materials to cor			
	sistance and extremely low losses. The best supercond			
	an operating temperature of 152 degrees Kelvin (-121 degree Kelvin			
	cations could be developed with a significant increase in	the temperatur	e of superc	on-
	duction.			
DESCRIPTION	Our research into High-Temperature Superconductivity	has resulted in	the discove	ery of
	an alloy that is superconductive at 236 degrees Kelvin (-	-37 degrees Ce	lsius), over	80 de-
	grees higher than our previous superconductors, improv			
	Tokamaks.	ing power gone	oracion ac oc	41
Result	Increases Tokamak Power output to 300.			
		1400	14	Std
Hot-Cracking Colum	Rare Ore Processing	1400	14	Siu
T			-4- 41 84-4	
Teaser	Smelters and GORFs are dependent on hot cracking co			
	tent of Ores or rubble. This equipment has a very high F			
	we may be able to apply our high-temperature supercon	iductive materia	Il to some e	le-
	ments of this system and reduce the Power demand.			
DESCRIPTION	Common Ore Smelter, Rare Ore Smelter, and GORF P	ower requireme	ents reduce	d.
Result	Reduces Common Ore Smelter, Rare Ore Smelter, and	GORF Power	requiremer	nts to
	40 units each.			
Hydroponic Growing	Media none	1600	11	Std
Teaser	Our Agridomes use a variety of methods, including Hydi		ss farming)	
1 00001	our Food requirements. Some of our Agricultural Worke			
	prove the growing medium in which our Hydroponic crop		ar ways to i	
DECORPTION			arous	hove
DESCRIPTION	By adjusting the nutrients in the liquid in which our hydro		grown, we	ilave
Desuit	been able to increase production at our Agridomes by 2	J /0.		
Result	Increases Food production to 50 units.			
Hypnopaedia	Research Training Programs	800	10	Std
Teaser	As our research projects become more complex, we ne			
	training agiantists. Hypnopagdia or aloop looming is a		to invoction	ate
1	training scientists. Hypnopaedia, or sleep-learning, is a	method we plar	i to investig	aic.
DESCRIPTION	Our hypnopaedia project has borne limited fruits. Sleep-			
DESCRIPTION	Our hypnopaedia project has borne limited fruits. Sleep	-learning is usef	ful only in re	educ-
DESCRIPTION	Our hypnopaedia project has borne limited fruits. Sleep ing the time required for memorization. This is helpful in	-learning is usef that a large par	ful only in re t of our rese	educ- earch
DESCRIPTION	Our hypnopaedia project has borne limited fruits. Sleep- ing the time required for memorization. This is helpful in training requires knowledge of what types of research ar	-learning is usef that a large par	ful only in re t of our rese	educ- earch
	Our hypnopaedia project has borne limited fruits. Sleep ing the time required for memorization. This is helpful in training requires knowledge of what types of research at bases.	-learning is usef that a large par re described in o	ful only in re t of our rese our scientifi	educ- earch
Result	Our hypnopaedia project has borne limited fruits. Sleep ing the time required for memorization. This is helpful in training requires knowledge of what types of research at bases. Reduces points required to train Scientists to 3750 (187)	learning is usef that a large par re described in o 5 in multiplayer)	ful only in re t of our rese our scientifi	educ- earch c data-
Result Improved Launch Ve	Our hypnopaedia project has borne limited fruits. Sleep ing the time required for memorization. This is helpful in training requires knowledge of what types of research at bases. Reduces points required to train Scientists to 3750 (1879) Phicle Space Program	learning is usef that a large par re described in o 5 in multiplayer) 6000	ful only in ret t of our rese our scientifi 18	educ- earch c data- Adv
Result	Our hypnopaedia project has borne limited fruits. Sleeping the time required for memorization. This is helpful in training requires knowledge of what types of research at bases. Reduces points required to train Scientists to 3750 (187) Phicle Space Program Our SULVs lack cargo sufficient capacity for some of the	learning is usef that a large par re described in o 5 in multiplayer) 6000 e resource carg	ful only in rest of our resecut scientification. 18 18 18 18 18	educ- earch c data- Adv we will
Result Improved Launch Ve	Our hypnopaedia project has borne limited fruits. Sleeping the time required for memorization. This is helpful in training requires knowledge of what types of research at bases. Reduces points required to train Scientists to 3750 (187) Phicle Space Program Our SULVs lack cargo sufficient capacity for some of the need to launch in the final stage of the evacuation of New	learning is usef that a large par re described in o 5 in multiplayer) 6000 e resource carg w Terra. In add	ful only in rest of our rest our scientific. 18 10 modules ition, they a	educ- earch c data- Adv we will
Result Improved Launch Ve	Our hypnopaedia project has borne limited fruits. Sleeping the time required for memorization. This is helpful in training requires knowledge of what types of research at bases. Reduces points required to train Scientists to 3750 (1879) Phicle Space Program Our SULVs lack cargo sufficient capacity for some of the need to launch in the final stage of the evacuation of Newproving quite expensive on a per launch basis. Our aero	learning is usef that a large par re described in o 5 in multiplayer) 6000 e resource carg w Terra. In add	ful only in rest of our rest our scientific. 18 10 modules ition, they a	educ- earch c data- Adv we will
Result Improved Launch Ve	Our hypnopaedia project has borne limited fruits. Sleeping the time required for memorization. This is helpful in training requires knowledge of what types of research at bases. Reduces points required to train Scientists to 3750 (187: Phicle Space Program Our SULVs lack cargo sufficient capacity for some of the need to launch in the final stage of the evacuation of New proving quite expensive on a per launch basis. Our aerra new launch vehicle to address both of these issues.	learning is usef that a large par re described in o 5 in multiplayer) 6000 e resource carg w Terra. In add onautical expert	ul only in ret of our resecut scientification. 18 10 modules ition, they as have proportion.	educ- earch c data- Adv we will are posed
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Result Improved Launch Ve Teaser	Our hypnopaedia project has borne limited fruits. Sleeping the time required for memorization. This is helpful in training requires knowledge of what types of research at bases. Reduces points required to train Scientists to 3750 (187) ehicle Space Program Our SULVs lack cargo sufficient capacity for some of the need to launch in the final stage of the evacuation of Newproving quite expensive on a per launch basis. Our aero a new launch vehicle to address both of these issues. The RLV program solves both of the design issues caus cargo capacity of the RLV is 40% larger than that of the largest starship modules we develop. And, though a sin	-learning is usef that a large par re described in o 5 in multiplayer) 6000 e resource carg w Terra. In add onautical expert sed by our origin SULV, allowing igle RLV is muc	ul only in ret of our resecut scientification. 18 10 modules ition, they a s have proper hal SULV. it to carry the more cost	Adv we will are posed The he stly
Result Improved Launch Ve Teaser	Our hypnopaedia project has borne limited fruits. Sleeping the time required for memorization. This is helpful in training requires knowledge of what types of research at bases. Reduces points required to train Scientists to 3750 (187: Shicle Space Program Our SULVs lack cargo sufficient capacity for some of the need to launch in the final stage of the evacuation of New proving quite expensive on a per launch basis. Our aera a new launch vehicle to address both of these issues. The RLV program solves both of the design issues cause cargo capacity of the RLV is 40% larger than that of the	learning is usef that a large par re described in o 5 in multiplayer) 6000 e resource carg w Terra. In add onautical expert sed by our origin SULV, allowing igle RLV is muc- ignificantly less	rul only in ret to four resecut scientification. 18 19 10 modules ition, they a s have proper hal SULV. it to carry the more cosexpensive.	Adv we will are posed The he stly

Increased Consolter	on Circuitary Dispetienal Magnetic Fields 1900 10 Adv.
Increased Capacitar	ice Circuitry Directional Magnetic Fields 1800 10 Adv
Teaser	As our experience in using Rare Metals grows, we find new applications for these materi-
	als. Our boptronics engineers believe they can refine the design of the dielectric insula-
	tors used in some of our high-voltage capacitors to improve their efficiency.
DESCRIPTION	The new design of the dielectric insulator has increased the capacitance of the capacitors
	used in the Rail Gun weapon systems. The higher discharge increases the acceleration
	of the projectile by 20%. In addition, our researchers are brainstorming another possible
	use for this technology, and will soon submit a new project proposal.
Result	Increases Rail Gun concussion damage to 100, penetration damage to 50.
Independent Turret P	ower Systems High-Temperature Superconductivity 1600 12 Adv
	Mobile Weapons Platform
Teaser	Our weapons turrets currently feed off the Lynx cool-fusion power plant. Because of the
	other demands on this power system, the amount of power that is available to the
	weapon is limited. Our research project will develop an independent power source for
	weapons turrets.
DESCRIPTION	The R-10 cool-fusion power cell, just developed, is a small but powerful generator de-
	signed to fit into the weapons turret on our Lynx combat vehicles. This replaces the
	power feeds from the Lynx' own cool-fusion plant, and makes possible other, more pow-
	erful weapons systems.
Result	Increases Laser penetration damage to 45.
Ion Drive Module	Skydock 3600 16 Adv
Teaser	While the main drive of the 'Conestoga' was a less capable fusion drive, it appears that
I Casci	an improved ion propulsion system was developed shortly before launch and used in
	some thruster systems. Development of an Ion Propulsion interstellar drive will be a sub-
	stantial step in our starship program.
DESCRIPTION	The ion motor is a low-thrust/long-duration system which will be activated once the ship
DESCRIPTION	reaches interstellar space. The Ion Drive Module contains this interstellar drive as well as
Dogult	supplemental ion and chemical guidance thrusters to be attached to the starship.
Result	Allows production of the Ion Drive Module at the Spaceport.
Large-Scale Optical	
Teaser	Inter-colonial relations remain poor, making it prudent to develop some kind of defensive
	capability. Our most promising research proposal derives from the welding and cutting
	lasers used at the Structure Factory. The key development will be the design of an opti-
	cal resonator large enough to produce a weapons-strength beam.
DESCRIPTION	Industrial laser torches provided the model for the Laser turret, whose large-scale optical
	resonators are capable of generating a beam that can slice through enemy targets quite
D "	easily.
Result	Makes the Laser weapon available. Allows production of Guard Post structure kits at the
	Structure Factory.
Lava Defenses	Rare Ore Processing 1200 12 Adv
_	Vulcanology
Teaser	Volcanic eruptions continue to pose a substantial danger. We must find some way of
	routing these lava flows away from the colony.
DESCRIPTION	In our search for a way to reduce the threat of volcanic eruptions, we have found a mate-
	rial that can, at least temporarily, resist the intense heat of a lava flow. This material,
	sprayed on a wall built of heavily-compressed regolith, can delay the approach of lava to
	our structures, giving us more time to evacuate.
Result	Allows Earthworkers to deploy Lava Walls.
Leisure Studies	Environmental Psychology 1400 7 Std
Teaser	Our colonists are asking for additional entertainment options for their off-duty hours. This
	project proposes to tap the humanities database for possible leisure-time activities.
DESCRIPTION	Our leisure studies project has produced a number of activities, for both individuals and
	groups, that will amuse, entertain, and stimulate our colonists. Recreation facility person-
	nel are trained to organize physical exercise classes, games, and tournaments, and to
	teach various handicrafts.
Result	Allows production of Recreation Facility structure kits at the Structure Factory.
Magma Purity Conti	ol Magma Refining 4500 18 Adv
Teaser	Although magma contains all of the elements we classify as Rare Metals, it also contains
	several other elements which are essentially waste materials. We may be able filter out
	some of these additional materials in our molten magma flow.
DESCRIPTION	Our Magma Purity Control technique removes several waste materials from the magma
	before cooling it for transport to the Rare Ore Smelter.
Result	Increases Rare Ore yield at Magma Well to 150.

Magma Refining	Geothermal Power 3200 16 Adv Vulcanology
Teaser	Initial observations of the magma vents that have begun to appear on the New Terran surface indicate that the magma is rich in Rare Metals. If we could develop a method of safely using this magma, it would greatly increase our supply of this resource.
DESCRIPTION	Using the same basic configuration as our Mines, we have created a process of extracting and cooling magma from magma vents. The product of this process is a steady supply of Rare Ores, with a constant yield of 100 units of Rare Metals.
Result	Allows Robo-Miners to deploy as Magma Wells. Robo-Miner production cost increases to 800 Common Metals.
Metallogeny	none 1100 11 Std
Teaser	Metallogeny is the branch of geology that seeks to define the relationship between the geological history of an area and its mineral deposits. Metallogenic research is aimed at achieving a better understanding of the nature and geological settings of base and precious metal deposits, and to use this understanding to help develop areas of high mineral potential.
DESCRIPTION	Our Metallogenic research has developed a new technique of locating and exploiting veins of Ore. This new method has increased Common Ore production.
Result	Increases Common Ore Mine yield by 20 percent.
Metals Reclamation	none 700 7 Std
Teaser	With our growing needs, we can no longer afford to overlook any possible sources of Metals. A few adaptations to our current Smelter technology may enable us to reclaim some of the materials in structures we no longer need.
DESCRIPTION	The Garbage and Ore Recycling Facility (GORF) uses a variant of the hot-cracking technology used at the Common Ore Smelter to extract usable Metals from deconstructed structures, unneeded structure kits, and rubble.
Result	Allows production of GORF structure kits at the Structure Factory.
Meteorology	Vulcanology 1800 11 Std
Teaser	Although there have always been electrical discharges in the New Terran atmosphere, the atmosphere's low pressure caused these discharges to be manifested as sudden glows, rather than lightning strikes as on Earth. Now, with the thickening of the atmosphere, dangerous lightning is becoming more of a danger. We need to study these
DESCRIPTION	strikes so that we can predict their occurrence and take precautions. We now understand the atmospheric conditions that lead to filimentous, or arc, lightning discharges in the New Terran atmosphere, and can predict their occurrence. On Earth, collisions between water particles of varying sizes caused the build-up of an electrical charge in the atmosphere. Negatively-charged particles in storm clouds were attracted to the positively-charged ground. The process is similar on New Terra, except that in-
Result	stead of water particles colliding, we have dust particles colliding. Gives early warning of electrical storms.
Meteor-Watch Obse	
Teaser	After the recent meteorite impacts, our observations have found that more are to come. New Terra is entering a field of debris, probably caused by the collision of two asteroids. We need a way to track this debris so we can have some advance warning of meteorite impacts.
DESCRIPTION	Deployment of the Observatory structure will allow us at least a minimal amount of warning of meteorite impacts in the area of our colony. The Observatory incorporates a wide-field optical telescope with a sophisticated tracking system to allow us to project the path of incoming meteors.
Result	Allows production of Observatory structure kits at the Structure Factory.
Mobile Weapons Pla	Large-Scale Optical Resonators
Teaser	While our Command Center staff is quite pleased with the new Guard Post structures, they point out that our defenses are rather inflexible, due to their lack of mobility. At their suggestion, our Scientists have outlined a project for developing a mobile weapons platform.
DESCRIPTION	The 'Lynx' light combat chassis is a design adapted from existing vehicles. The Lynx includes light armor-plating and a weapons hard point, to which any kind of turret may be attached.
Result	Allows production of Lynx at the Vehicle Factory.
Multitainment Conso Teaser	The demands on our Recreation Facilities have grown even as our colony has grown. This project hopes to ease the situation by improving the multitainment consoles so many
DESCRIPTION	of our colonists use during their off-duty hours. Our improved Multitainment Consoles are smaller and less expensive, while maintaining their high performance level. The number of units included in the Recreation Facility design has been increased, allowing the facility to serve more colonists.
Result	Increases Recreation Facility capacity to 60 Colonists.

Offspring Enhancem	ent none	600	6	Std
Teaser	With our population dwindling, we must find ways of in-	creasing our numb	ers. This	proje
	is designed to find ways of increasing the birth rate as children.			
DESCRIPTION	Based on the data developed in the Human Genome I	Project completed	a few ve	ars be
22001 1.0.1	fore the destruction of Earth, our Offspring Enhancement			
	genetically superior children from our gene banks, in v			
	ment.	ili o goolalion, and	iorunty or	ii iai io
Result	Allows production of Nursery structure kits at the Struc	rture Factory		
Orbital Package	Skydock	3600	16	Adv
Teaser	U pon arrival at our new home, we want to deploy a se			
i casci	will provide data about the planet and support colony of		iu probes	s u iai
DESCRIPTION	This group of satellites and probes, to be deployed upon		stination	planet
	includes EDWARD, a communications satellite, a sola	r power satellite, o	rbital obs	ervers
	and several types of atmospheric and geologic probes	i.		
Result	Allows production of the Orbital Package at the Space	port.		
Phoenix Module	All other Starship Components ¹	3600	16	Adv
Teaser	Before we land our colonists on the new planet, we mu			
	early stages of a colony. We have in our databases p			
	Factory used on our arrival on New Terra, but they are			
DESCRIPTION	When deployed, this self-contained lander transforms			
	and vehicles needed to start a colony. These structure			
	out human presence, and will give our new home a he		•	
Result	Allows production of the Phoenix Module at the Space			
Precision Trajectory Proj	•	2400	14	Std
Teaser	Our Meteor Defense is effective when it can find the		of the sv	
. 5005.	show a significant possibility of inaccurate targeting co			
	vatory tracking software.	o. aaoo goo. a	, a 2 , a . c	0.000
DESCRIPTION	Revision of the meteor tracking software, using algorith	nms developed as	nart of th	ne.
BLOOKII HOIV	space program, has improved the trajectory projection	software used at t	he Obse	rvator
	This will increase the probability of destroying incoming			
	colony.	g meteoro belore ti	icy readi	i oui
Result	Improves Observatory's meteor targeting system.			
Rare Ore Extraction	Rare Ore Processing	3400	17	Adv
Teaser	Our Rare Ore mining facilities have had only moderate		the bes	
	ods of extracting higher grades of Rare Ore. Several			
	improve our efficiency.	5. opodalo 1.a. o 20	o put.o.	
DESCRIPTION	Our project has met with limited success. We have de	eveloned two new	nrocesse	s that
DECORU HOIV		veloped two new		
		aterials such as n	uartz and	
	determine the Rare Metal content of certain gangue m		uartz, and	u elim
Result	nate specimens containing only trace amounts of Rare		uartz, and	u elim
Result	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent.	e Metal.		
	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation	2800	uartz, and	
	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity	2800		
Rare Ore Processing	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny	2800	16	Adv
	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny Since our arrival on New Terra, we have encountered	2800 a number of sites	16 that are ri	Adv
Rare Ore Processing	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny Since our arrival on New Terra, we have encountered rare mineral deposits, but we have had neither applica	2800 a number of sites tions which called	16 that are ri	Advich in Metals
Rare Ore Processing	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny Since our arrival on New Terra, we have encountered rare mineral deposits, but we have had neither applica nor methods of processing these Rare Ores. Now, ou	2800 a number of sites tions which called ir scientists have a	16 that are ri	Adv ich in Metals
Rare Ore Processing Teaser	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny Since our arrival on New Terra, we have encountered rare mineral deposits, but we have had neither applica nor methods of processing these Rare Ores. Now, ou projects they wish to undertake which would require R	2800 a number of sites tions which called ir scientists have a are Metals.	16 that are ri for Rare i number	Adv ich in Metals of
Rare Ore Processing	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny Since our arrival on New Terra, we have encountered rare mineral deposits, but we have had neither applica nor methods of processing these Rare Ores. Now, ou projects they wish to undertake which would require R Rare Metals will be a great asset to us. These metals	2800 a number of sites tions which called ir scientists have a are Metals.	16 that are ri for Rare i number	Adv ich in Metals of
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Rare Ore Processing Teaser	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny Since our arrival on New Terra, we have encountered rare mineral deposits, but we have had neither applica nor methods of processing these Rare Ores. Now, ou projects they wish to undertake which would require R Rare Metals will be a great asset to us. These metals search projects. Allows production of Rare Ore Smelter and Rare Meta	a number of sites tions which called ir scientists have a are Metals. can be used in se	that are rifor Rare in number veral new structure	Advich in Metals of v re-kits at
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Rare Ore Processing Teaser DESCRIPTION Result Recycler Postproces	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny Since our arrival on New Terra, we have encountered rare mineral deposits, but we have had neither applica nor methods of processing these Rare Ores. Now, ou projects they wish to undertake which would require R Rare Metals will be a great asset to us. These metals search projects. Allows production of Rare Ore Smelter and Rare Meta the Structure Factory, and allows Robo-Miners to depl Robo-Miner production costs to 700 Common Metals Metals Reclamation	a number of sites tions which called ir scientists have a are Metals. can be used in set oy as Rare Ore M	that are rifor Rare in number weral new structure ines. Inc.	Adv ich in Metals of v re- kits at reases
Rare Ore Processing Teaser DESCRIPTION	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny Since our arrival on New Terra, we have encountered rare mineral deposits, but we have had neither applica nor methods of processing these Rare Ores. Now, ou projects they wish to undertake which would require R Rare Metals will be a great asset to us. These metals search projects. Allows production of Rare Ore Smelter and Rare Meta the Structure Factory, and allows Robo-Miners to depl Robo-Miner production costs to 700 Common Metals ising Metals Reclamation The hot-cracking column used in our GORFs success	a number of sites tions which called ir scientists have a are Metals. can be used in set oy as Rare Ore M	that are rifor Rare in number weral new structure ines. Incomparison and the proximately	Advich in Metals of v re-kits at reases
Rare Ore Processing Teaser DESCRIPTION Result Recycler Postproces	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny Since our arrival on New Terra, we have encountered rare mineral deposits, but we have had neither applica nor methods of processing these Rare Ores. Now, ou projects they wish to undertake which would require R Rare Metals will be a great asset to us. These metals search projects. Allows production of Rare Ore Smelter and Rare Meta the Structure Factory, and allows Robo-Miners to depl Robo-Miner production costs to 700 Common Metals ising Metals Reclamation The hot-cracking column used in our GORFs success of the Metals content of materials. We have some the	a number of sites tions which called ir scientists have a are Metals. can be used in set oy as Rare Ore M	that are rifor Rare in number weral new structure ines. Incomparison and the proximately	Advich in Metals of v re-kits at reases
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Rare Ore Processing Teaser DESCRIPTION Result Recycler Postproces	nate specimens containing only trace amounts of Rare Increases Rare Ore Mine yield by 20 percent. Cybernetic Teleoperation High-Temperature Superconductivity Metallogeny Since our arrival on New Terra, we have encountered rare mineral deposits, but we have had neither applica nor methods of processing these Rare Ores. Now, ou projects they wish to undertake which would require R Rare Metals will be a great asset to us. These metals search projects. Allows production of Rare Ore Smelter and Rare Meta the Structure Factory, and allows Robo-Miners to depl Robo-Miner production costs to 700 Common Metals ising Metals Reclamation The hot-cracking column used in our GORFs success of the Metals content of materials. We have some the	a number of sites tions which called ir scientists have a are Metals. can be used in set oy as Rare Ore M	that are rifor Rare in number weral new structure ines. Incomparison and the proximately	Advich in Metals of v re-kits at reases

¹ These include: Command Module, Fueling Systems, Fusion Drive Module, Habitat Ring, Ion Drive Module, Orbital Package, Sensor Package, Skydock, and Stasis Systems.

Dainforced Vehicle	Canaturation Days On	o Dropoping	40	00 12	Ctd
Reinforced Vehicle Teaser	The Cargo Truck, and sor	e Processing			Std
reaser	nerable to damage from di				
	composite alloys incorpora				icvv
Description	The durability of these veh				sed
	construction and the use of				
Result	Increases Hit Points and o				and
	Evacuation Transports.			-	
		Cargo Truck	ConVec	Evacuation Tra	ansport
	Hit Points	750	375	280	
	Common Metals cost	500	1000	650	
	Rare Metals cost	100	150	100	
Reinforced Panther		ed Combat Chassis		00 11	Adv
Teaser	The composite alloy devel	ed Vehicle Constru		truction project m	av bo
i casci	beneficial for our Panther			aruction project m	ay be
DESCRIPTION	A redesign of the Panther			eased the durabil	ity of this
22001 11011	combat chassis.	aog ao cop	conto amoj nacimo.		, 0
Result	Increases Panther Hit Poil	nts to 700; changes	s production costs	to 300 Common I	Metals
	and 150 Rare Metals.	, 0	•		
Research Training F	Programs none		30	00 5	Std
Teaser	A lack of trained workers a				
_	develop a curricula that wi				
DESCRIPTION	Our new educational curri				
	pendent study with Savan	t computers, VR si	mulations, and inte	emships at the res	earch
Dogult	labs.	rait, and Advance	d Labata atura kita	a at the Otropators	Cooton,
Result Robot-Assist Mecha	Allows production of Unive	tic Teleoperation		s at the Structure 00 8	Std
Teaser	Our cybernetics experts h	ave proposed a ne			
i casci	cles.	ave proposed a ne	w lobol that can b	e useu ii repailii (y verii-
DESCRIPTION	Robot-Assist Mechanics, i	nstalled at the Gar	age, are capable o	of doing most vehi	cle re-
DECORAL HOLY	pairs. A special version ha				01010
Result	Allows production of Gara				Vehi-
	cles at the Vehicle Factory			,	
Robotic Image Proc	cessing Cyberne	tic Teleoperation	14	00 12	Std
Teaser	The visual recognition sys				
	tially due to the limitations	of the image proce	ssing software. S	ome of our progra	mmers
D	have a possible solution.	. ,.			
DESCRIPTION	Through a combination of				
	telescoping vision systems proved.	s, the visual recogr	nition range of certi	ain units nas beer	ı im-
Result	Improves sight ranges of L	ight Tower (to 9)	Guard Post (to 9)	and Scout (to 8)	
Scout-class Drive T		Veapons Platform		00 12	Std
Teaser	The Scout, and some simi				
100001	design flaw in the G-75 that				
	make it more effective.		, p,		
DESCRIPTION	The G-75 drive train used	in these three vehi	cles has been repl	aced by the G-80	model,
	which improved vehicle sp				
	plant to the wheels.				
Result	Increases Scout, Robo-Su	ırveyor, and Lynx s	•		
Seismology	none	Alexander CO		00 11	Std
Teaser	Our previous research on				
	subject to seismic activity; planetary sciences databa				
	mic event prediction on Ea				
DESCRIPTION	We have developed equip				
DEOCIMI HON	of seismic events. Among				
	of radon and carbon dioxid				
	These warnings should gir				
	ter, reducing damage to th			,	-
Result	Gives early warning of sei	smic events.			
Sensor Package	Skydock			00 16	Adv
•	O (I' ()		stem, which will se	erve two purposes	Firet it
Teaser	Our starship must have a				
Teaser	must help us avoid collisio	n with asteroids an	nd other large object	cts. Second, it wil	
	must help us avoid collisio data from interstellar probe	n with asteroids an es we send out to fi	nd other large object ind our new home.	cts. Second, it wil	l receive
Teaser Description	must help us avoid collisio data from interstellar probe Before we can depart the	n with asteroids an es we send out to fi New Terra system	nd other large object ind our new home , we must have a c	cts. Second, it will destination. Our S	l receive Sensor
	must help us avoid collisio data from interstellar probe Before we can depart the Package includes a Nano	n with asteroids an es we send out to fi New Terra system probe launcher, ca	nd other large object ind our new home: , we must have a c pable of sending th	cts. Second, it wild destination. Our S nousands of micro	I receive Sensor obe-
	must help us avoid collisio data from interstellar probe Before we can depart the Package includes a Nano sized probes toward poter	n with asteroids an es we send out to fi New Terra system probe launcher, ca tially habitable plar	nd other large objectind our new home. , we must have a copable of sending the nets, and a sensor	cts. Second, it wild destination. Our S nousands of micro	I receive Sensor obe-
	must help us avoid collisio data from interstellar probe Before we can depart the Package includes a Nano	n with asteroids an es we send out to fi New Terra system probe launcher, ca ntially habitable plar ent back by the Nar	nd other large objectind our new home.	cts. Second, it wild destination. Our S nousands of micro	I receive Sensor obe-

SUVERE ATMOSPINATIO	: Disturbances Meteorology 1800 12 Std
Severe Atmospheric Teaser	The vortexes we have been experiencing are a new phenomenon on New Terra; we
rodoci	must study these severe storms to determine how they are caused and how to predict them.
DESCRIPTION	The vortexes start in a manner similar to the 'dust-devils' common on Earth and Mars.
DECORAL HOR	Ground-level air, heated by sunlight, rises. Cooler air rushes into the area that the
	warmer air has left, but from there, the spinning column of air is enhanced and focused
	by a yet-unknown process which may be electromagnetic in nature. While our under-
	standing is limited, we can now forecast conditions that will lead to their formation, and
	have developed technologies for early detection.
Result	Gives early warning of vortexes.
Skydock	Space Program 3600 16 Adv
Teaser	Our Skydock will function as an orbital command post. In addition to docking facilities for
i casci	our launch vehicles ferrying components and technicians, it serves as a command and
	control facility for construction of our starship.
DESCRIPTION	Now that we have regained space launch capabilities, we can begin construction of a
DESCRIPTION	new starship. The first step is an orbital station from which we can start deploying com-
	ponents of the ship.
Result	Allows production of the Skydock at the Spaceport.
	· · · · · · · · · · · · · · · · · · ·
Smelter Postprocess	· ·
Toppor	Recycler Postprocessing The chemical postprocessing technique we developed for improving metals reclamation.
Teaser	The chemical postprocessing technique we developed for improving metals reclamation at the GORF may be adaptable for use at our Common Ore and Rare Ore Smelters.
DECODIDATION	
DESCRIPTION	We have successfully adapted the chemical postprocessing treatment used at the
Decult	GORF to improve the yield of our Smelters.
Result	Increases Common Ore Smelter and Rare Ore Smelter production.
Solar Power	Space Program 2800 16 Adv
Teaser	The technology behind solar power has been available for quite some time, the size of
	the solar collector panels needed to generate a significant amount of power has always
	been judged prohibitive, especially since our periodic evacuations began. However, with
	the redevelopment of a space program, it is possible to build a solar collector satellite
_	which beams the energy it collects to a ground-based receiver.
DESCRIPTION	The solar power system, comprised of a collector satellite and ground-based receiver, is
	an inexpensive alternative energy source. The satellite, once in orbit, can be retargeted
	at a new ground location after an evacuation, and the receivers are much less volatile
	than our Tokamak fusion reactors.
Result	Allows production of the Solar Power Array at the Structure Factory and the Solar Power
	Satellite at the Spaceport.
Space Program	Rare Ore Processing 3600 16 Adv
Teaser	Many of our colonists feel, now that our colony is beginning to grow, that it would be wise
	to start another starship project. Having colonies on separate planets would help to en-
D	sure the survival of humanity.
DESCRIPTION	Our space program is underway. As an initial cargo, we have developed the Early Dis-
	Our space program is underway. As an initial cargo, we have developed the Early Disaster Warning and Resource Detection (EDWARD) satellite.
DESCRIPTION Result	Our space program is underway. As an initial cargo, we have developed the Early Disaster Warning and Resource Detection (EDWARD) satellite. Allows production of Spaceport structure kits at the Structure Factory. The Spaceport
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Eden Research Lists for Weapons Systems and Combat Chassis

Weapons Systems

Laser (1 topic)

■ Large-Scale Optical Resonators

Starflare (4 topics)

- Cybernetic Teleoperation
- Large-Scale Optical Resonators
- Mobile Weapons Platform
- Explosive Charges

Rail Gun (11 topics)

- Cybernetic Teleoperation
- Large-Scale Optical Resonators
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Advanced Vehicle Power Plant
- Independent Turret Power Systems
- Rare Ore Processing
- Advanced Combat Chassis
- Directional Magnetic Fields

EMP (11 topics)

- Cybernetic Teleoperation
- Large-Scale Optical Resonators
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Advanced Vehicle Power Plant
- Independent Turret Power Systems
- Rare Ore Processing
- Advanced Combat Chassis
- Electromagnetic Pulsing

Acid Cloud (12 topics)

- Cybernetic Teleoperation
- Large-Scale Optical Resonators
- Metallogeny
- Research Training Programs
- Seismology
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Vulcanology
- Advanced Vehicle Power Plant
- Rare Ore Processing
- Advanced Combat Chassis
- Acid Weaponry

Thor's Hammer (13 topics)

- Cybernetic Teleoperation
- Large-Scale Optical Resonators
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Advanced Vehicle Power Plant
- Independent Turret Power Systems
- Rare Ore Processing
- Advanced Combat Chassis
- Directional Magnetic Fields
- Increased Capacitance Circuitry
- Artificial Lightning

Combat Chassis

Lynx (3 topics)

- Cybernetic Teleoperation
- Large-Scale Optical Resonators
- Mobile Weapons Platform

Panther (9 topics)

- Cybernetic Teleoperation
- Large-Scale Optical Resonators
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Advanced Vehicle Power Plant
- Rare Ore Processing
- Advanced Combat Chassis

Starship (17 topics)

- Cybernetic Teleoperation
- Health Maintenance
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Rare Ore Processing
- Space Program
- Skydock
- Command Module

Tiger (11 topics)

- Cybernetic Teleoperation
- Large-Scale Optical Resonators
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Advanced Vehicle Power Plant
- Rare Ore Processing
- Advanced Combat Chassis
- Reinforced Vehicle Construction
- Dual-Turret Weapons Systems
- Habitat Ring
- Ion Drive Module
- Orbital Package
- Sensor Package
- Fueling Systems
- Fusion Drive Module
- Stasis Systems
- Phoenix Module

Plymouth Research

Alphabetical Listing of Research Topics

Горіс		Predecessor	Cost	Sci	Lab
Advanced Armoring	Systems	Advanced Combat Chassis	3800	17	Adv
_	-	Enhanced Defensive Fortifications			
Teaser		ogies developed by our space program h			
		One of these is an improvement to the ar	mor systems we	e use on so	ome or
DESCRIPTION	our vehicles.		a haa raaultad in	on allows	oll auita
DESCRIPTION		search done as part of our space progran mbat vehicle armor.	i i ias resulteu iri	an alloy w	eli Suile
Result		mor of Lynx (to Medium) and Panther (to	Heavy		
Advanced Combat C		Advanced Vehicle Power Plant	2200	13	Adv
-avancea combat c	1103313	Mobile Weapons Platform Rare Ore Processing	2200	10	Auv
Teaser		nx has generally been a satisfactory desi in combat. Our defenses require a heavi			
DESCRIPTION	The Panther and Cargo T	redium combat chassis, based on the s ruck, is a heavier, better armored defend wer than the Lynx, its greater durability in	same vehicle boo ler than its prede	dy as the (cessor, the	ConVec e Lynx.
Result		uction of Panthers at the Vehicle Factory.			
Advanced Robotic Ma			3200	14	Std
Teaser	•	s, such as the ConVec, use manipulator a			
i casci		etic experts have a proposal for improving			
DESCRIPTION	Several sma	all refinements to the manipulator arms of	these units, sucl	n as recon	figured
	joints, use of	f higher tensile strength metals in constru	ction, and a soft	vare upgra	ade, ado
		tantial improvement in the production and			
Result		e productivity of ConVecs, Earthworkers,			
	percent. (Im	nproves structure kit deployment, Tube ar	nd Wall construc	tion, repair	, and
	bulldozing tir				
Advanced Vehicle Po		High-Temperature Superconductivity	y 1600	. 11	Std
Teaser		ne vehicle models we use are powered by			
		n-Temperature Superconductivity may be	applicable to an	improvem	ient of
DESCRIPTION	this power pl		stalled in all Care	no Trucke	Doho
DESCRIPTION	The new R-3	3000 series cool-fusion plant has been ins			
DESCRIPTION	The new R-3 Dozers, Earl	3000 series cool-fusion plant has been inst thworkers, replacing the earlier R-2000 m	nodel. This appli	cation of th	ne High-
	The new R-3 Dozers, Earl Temperature	3000 series cool-fusion plant has been in: thworkers, replacing the earlier R-2000 m e Superconductivity technology has incre	nodel. This appli ased the speed	cation of th	ne High-
Result	The new R-3 Dozers, Earl Temperature	3000 series cool-fusion plant has been ins thworkers, replacing the earlier R-2000 m e Superconductivity technology has incre argo Truck, Robo-Dozer, and Earthworke	nodel. This appli ased the speed or speeds.	cation of the	ne High- ehicles.
Result Arachnid Durability	The new R-3 Dozers, Earl Temperature Improves Ca	3000 series cool-fusion plant has been in: thworkers, replacing the earlier R-2000 m e Superconductivity technology has incre- argo Truck, Robo-Dozer, and Earthworke Arachnid Weaponry	nodel. This appliased the speed or speeds. 1800	cation of the of these ve	ne High- ehicles. Adv
Result	The new R-3 Dozers, Earl Temperature Improves Ca Our Arachnic	3000 series cool-fusion plant has been ins thworkers, replacing the earlier R-2000 m e Superconductivity technology has incre- argo Truck, Robo-Dozer, and Earthworke Arachnid Weaponry d units, while very useful, are too easily d	nodel. This appli ased the speed or speeds. 1800 estroyed. This p	cation of the control of these version 14 project see	ne High- ehicles. Adv ks to in
Result Arachnid Durability	The new R-S Dozers, Earl Temperature Improves Ca Our Arachnic crease the s	3000 series cool-fusion plant has been ins thworkers, replacing the earlier R-2000 m e Superconductivity technology has incre- argo Truck, Robo-Dozer, and Earthworke Arachnid Weaponry d units, while very useful, are too easily d curvivability of the Arachnids while maintai	nodel. This appliased the speed or speeds. 1800 estroyed. This pining their speed	cation of the of these version 14 oroject see and low c	ne High- ehicles. Adv ks to in ost.
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Command Module	Skydock 4600 16 Adv
Teaser	Researchers combing through the partially-restored historical records in our databases have discovered a portion of the specifications for the bridge of the 'Conestoga.' This will speed our development of the command and control systems of the ship.
DESCRIPTION	Several dozen Savant computer systems, working in parallel, make up the core of the Command Module. This is the most sophisticated computer system we have ever devised, capable of guidance control, power direction, and self-maintenance, without human intervention, for decades.
Result	Allows production of the Command Module at the Spaceport.
Cybernetic Teleopera	ation none 1000 10 Std
Teaser Description	Prior to the evacuation from our original colony site, Workers remotely operated our vehicles using a technology called Teleoperation. Since the catastrophe, we no longer have enough Workers to Teleoperate our vehicles. The Savant computers at the Command Center have taken on part of this burden, but the job is taxing their capacity. We need a specialized computer vehicle control system. This Cybernetic Teleoperation project should allows us to operate a much larger number of vehicles. Our research has resulted in a specialized variant of the Command Center, with dedi-
	cated computers and communications capabilities. In addition, all vehicle designs now include the less expensive Noesis computer, utilizing elements of the Savant technology. This transfers much of the computing burden from the Robot Command Center to the vehicle itself.
Result	Allows production of Robot Command Center and Vehicle Factory structure kits at the Structure Factory.
DIRT Procedural Rev	
Teaser	As our colony grows, more and more resources must be invested in DIRTs to maintain
	adequate protection. DIRT members have made several suggestions that may reduce this burden. A review of methods and procedures is in order.
DESCRIPTION	Using suggestions made by DIRT members, our emergency response procedures have been improved. Among the improvements are an additional team member, redesigned power-assist armor, and a new type of structural breach patch.
Result	Increases DIRT protection capacity to 15 structures; increases DIRT Worker requirement to 3.
Disaster-Resistant H	lousing Environmental Psychology 600 12 Std
Teaser	The increasing frequency and strength of the seismic events and atmospheric disturbances are making our Residence structures dangerous places to be. This project will seek to alter the design of the Residence to make it more able to withstand these dangers.
DESCRIPTION	Rather than alter the existing Residence plan, we have designed a new Reinforced Residence, capable of withstanding more serious disaster. The original Residence structure is still available, at lower cost, for use in areas deemed to be less prone to seismic activity.
Result	Allows production of the Reinforced Residence structure kit at the Structure Factory.
Dissipating Adhesive	·
Teaser	One of our researchers, experimenting during his off-duty hours, discovered a peculiar substance: a foam that acted as a powerful adhesive, but evaporated after a short period of time. This is such a fascinating material that we would like to run some experiments on it to find potential applications.
DESCRIPTION	StickyFoam is a powerful adhesive foam that evaporates after a short period of time. Our experiments to find a use for StickyFoam were largely unsuccessful, but we have developed the foam into a non-destructive weapon system. Enemy vehicles sprayed with
	StickyFoam will be immobilized briefly, allowing our units an opportunity to escape or bring up reinforcements.
Result	bring up reinforcements. Makes the StickyFoam weapon available.
Result Dual-Turret Weapon:	bring up reinforcements. Makes the StickyFoam weapon available.
	bring up reinforcements. Makes the StickyFoam weapon available. s Systems Advanced Combat Chassis 4200 18 Adv
Dual-Turret Weapon	bring up reinforcements. Makes the StickyFoam weapon available. s Systems Advanced Combat Chassis 4200 18 Adv Reinforced Vehicle Construction One of our research Scientists has proposed doubling the rate of fire of our combat units by installing a dual weapons turret. This may be just the decisive advantage we need to

	ng Legged Robots	4000	18	Std
	Space Program			
Teaser	All of our factories use a similar assembly-line method of p workers, reading through the databases of industrial engin have proposed a study of our factories, to look for possible efficiency.	neering technic	ques from	Earth,
DESCRIPTION	Using time-and-motion analysis of the various production to veloped several new tools and techniques that reduced the ucts by 25%.			
Result	Reduces production time at the Arachnid Factory, Spacephicle Factory by 25 percent.	oort, Structure	Factory,	and Ve-
Electromagnetic Puls		1400	11	Adv
Teaser	Since the early development of atomic weaponry, scientis ruptive effect of the electromagnetic pulse (EMP) on electrobelieve they can use this knowledge to produce a defension	ronic circuitry.	Our scie	
DESCRIPTION	Electromagnetic pulse (EMP) grenades, fired from Guard duce a disruption in the power distribution circuitry of all ve This will briefly render the target inoperable.	Posts or com	bat chass	
Result	Makes the EMP weapon available.			
Emergency Respons	e Systems none	1000	10	Std
Teaser	Given the new dangers confronting our colony, we need n	nore protectio	n against	disaster
DESCRIPTION	than our emergency shelters are able to provide. This proj tools, and techniques to respond to structural damage. Disaster Instant Response Teams (DIRTs) can reduce da DIRT structure has been deployed, DIRT members traine and structural reinforcement will be on the scene in a matter.	amage to structed in emergence	· ctures. Oi cy medica	nce the
Result	Allows production of DIRT structure kits at the Structure F	actory.		
Enhanced Defensive	Fortifications Focused Microwave Projection Rare Ore Processing	1800	12	Std
Teaser	With tensions increasing between the colonies, we must n possible.	nake our defe	enses as s	trong as
DESCRIPTION	The armor applied to our Guard Posts is now equal to that tures.	t protecting ou	ır most vit	al struc-
Result	Upgrades Guard Post armor to Heavy.			
Environmental Psych	nology none	800	. 12	Std
	nology none Environmental Psychology studies the relationships betwee environments in which they occur. The forced evacuation creased the stress on our Colonists; additional research in a more supportive environment and improve Morale. Our expanded knowledge of the causes and effects of crostuational stressors has enabled us to redesign our Resid	een human be of our old col on this field may owding and er	ehaviors a lony site h y help us t nvironmen	nd the as in- o create tal and
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	at the Structure Factory.			
Forum Reconfigurati		600	10	Std
Teaser	Demand for seating at our Forum events is running ve		nfiguration	of the
D	seating at the Forum would allow us to accommodate		- la 4	
DESCRIPTION	By redesigning the seats, reconfiguring the seating arr			
Dooult	shape of the stage, we can now accommodate more places and stage and stage and stage and stage are stage and stage and stage are stage and stage and stage are stage and stage are stage and stage are stage and stage are stage are stage and stage are stage are stage and stage are stage a	beople at each F	orum evei	nt.
Result	Increases Forum capacity to 100 Colonists. Ion Drive Module	4600	16	Λ dv r
Fueling Systems Teaser	Because our starship will have a dual-propulsion syste			Adv
i casci	The lon Drive will be fueled by liquid mercury, which m			
	The Fusion Drive uses hydrogen as fuel. This may be			
	suggest developing a fuel-gathering craft which can co			
	mosphere.	, , , , ,		
DESCRIPTION	The Fueling Systems consist of storage tanks for liquid	d mercury, used	to fuel the	lon
	Drive, and the Fuel Shark, an autonomous ramscoop			
	ers of the planet's atmosphere to gather hydrogen fuel			
	The Fuel Shark will substantially reduce the number of	flaunches neces	ssary to pr	epare
Dogult	the starship for flight.	anart		
Result	Allows production of the Fueling Systems at the Space	•	10	۸ ما، ،
Fusion Drive Module Teaser		4600	16	Adv for traval
i easei	The lon Drive we have developed is well-suited for use within a solar system, a fusion motor will greatly reduce		pace, but i	oi liavei
DESCRIPTION	Our fusion propulsion system plans are complete. The		Module con	ntains
2200.31 11011	both the fusion motor, used for high-acceleration in-sys			
	which store the hydrogen fuel used in this motor. Onc			
	space, this fusion motor will provide power to the Ion D	Orive.		
Result	Allows production of the Fusion Drive Module at the Sp			
Grenade Loading Me			16	Adv
Teaser	Tests of the reloading mechanism in our grenade laun		the EMP	and Cor-
D	rosive Acid have revealed some potential areas of imp			
DESCRIPTION	The hydraulic grenade loading mechanism used in sor			
	been designed to handle ammunition that was much le currently have in use. Increasing the 'rattle' tolerances			
	loading system.	ou line system a	IIOWS IOI a	iasiei
Dooult	0 ,			
Result	improves fivir and fish rate of tire			
Result Habitat Ring	Improves EMP and ESG rate of fire. Skydock	4600	16	Adv
Habitat Ring Teaser	Skydock	4600 will be the bomb	16 ardment c	Adv of the
Habitat Ring		will be the bomb	ardment c	of the
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Habitat Ring Teaser DESCRIPTION Result	Skydock One of the greatest dangers of our interstellar voyage starship with radiation and dust particles. We must de against damage to the ship. Before and after our interstellar flight, our colonists will temporary quarters are shielded from radiation and sm field generated by superconductive coils built into the hallows production of the Habitat Ring at the Spaceport	will be the bomb evelop some kind live in the Habita nall particle collis null. t.	ardment of of protect at Ring. The ions by a r	of the tion hese magnetic
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ור ביי ביי ביי ביי ביי ביי ביי ביי ביי בי	Superconductivity is the ability of certain materials to conduct elesistance and extremely low losses. The best superconductiver an operating temperature of 152 degrees Kelvin (-121 degrees (cations could be developed with a significant increase in the tem duction. Our research into High-Temperature Superconductivity has rest an alloy that is superconductive at 236 degrees Kelvin (-37 degr grees higher than our previous superconductors, improving pow Tokamaks. Increases Tokamak Power output to 300. In Efficiency Metals Reclamation 140. Rare Ore Processing Smelters and GORFs are dependent on hot cracking columns to tent of Ores or rubble. This equipment has a very high Power dwe may be able to apply our high-temperature superconductive ments of this system and reduce the Power demand. Common Ore Smelter, Rare Ore Smelter, and GORF Power research ore Smelter, and GORF	Superconductivity is the ability of certain materials to conduct electric curre sistance and extremely low losses. The best superconductive materials w an operating temperature of 152 degrees Kelvin (-121 degrees Celsius). M cations could be developed with a significant increase in the temperature of duction. Our research into High-Temperature Superconductivity has resulted in the an alloy that is superconductive at 236 degrees Kelvin (-37 degrees Celsiug grees higher than our previous superconductors, improving power generat Tokamaks. Increases Tokamak Power output to 300. Inn Efficiency Metals Reclamation Rare Ore Processing Smelters and GORFs are dependent on hot cracking columns to separate tent of Ores or rubble. This equipment has a very high Power demand. We we may be able to apply our high-temperature superconductive material to ments of this system and reduce the Power demand. Common Ore Smelter, Rare Ore Smelter, and GORF Power requirements Reduces Common Ore Smelter, Rare Ore Smelter, and GORF Power requirements. Reduces Common Ore Smelter, Rare Ore Smelter, and GORF Power requirements. Some of our Agricultural Workers have ideas on v prove the growing medium in which our Hydroponic crops are grown. By adjusting the nutrients in the liquid in which our hydroponic crops are groben able to increase production at our Agridomes by 25%. Increases Food production to 50 units. Research Training Programs 1000 As our research projects become more complex, we need to improve our training scientists. Hypnopaedia, or sleep-learning, is a method we plan to Our hypnopaedia project has borne limited fruits. Sleep-learning is useful or ing the time required for memorization. This is helpful in that a large part of training requires knowledge of what types of research are described in our bases. Reduces points required to train Scientists to 4500 (2250 in multiplayer). Power Systems High-Temperature Superconductivity Mobile Weapons Platform Our weapons turrets currently feed off the Lynx cool-fusion po	Superconductivity is the ability of certain materials to conduct electric current with sistance and extremely low losses. The best superconductive materials we have an operating temperature of 152 degrees Kelvin (-121 degrees Celsius). Many ne cations could be developed with a significant increase in the temperature of super duction. Our research into High-Temperature Superconductivity has resulted in the discov an alloy that is superconductive at 236 degrees Kelvin (-37 degrees Celsius), ove grees higher than our previous superconductors, improving power generation at comparison of the control of

Legged Robots	Cybernetic Teleoperation 1800 14 Std High-Temperature Superconductivity
Teaser	As we move into areas with rougher terrain, our robotics staff has proposed research into robots that use legged locomotion rather than wheeled. Robots with legs would be more agile and therefore less affected by terrain than our existing vehicles.
DESCRIPTION	Our new 'Arachnid' robotics factory can produce robots that move on legs rather than wheels. These smaller Spider vehicles are inexpensive and agile, and can be used to repair other vehicles and structures.
Result	Allows production of Arachnid Factory structure kits at the Structure Factory. Arachnid Factories may produce Spiders.
Leisure Studies	Environmental Psychology 500 7 Std
Teaser	Our colonists are asking for additional entertainment options for their off-duty hours. This project proposes to tap the humanities database for possible leisure-time activities.
DESCRIPTION	Our leisure studies project has produced a number of activities, for both individuals and groups, that will amuse, entertain, and stimulate our colonists. Recreation facility personnel are trained to organize physical exercise classes, games, and tournaments, and to teach various handicrafts.
Result	Allows production of Recreation Facility structure kits at the Structure Factory.
Magnetohydrodynan	
Teaser Description	For several years now, New Terra's magnetic field has been in a state of flux. This appears to be a natural process; it is believed to have happened a number of times in Earth's past, though not during recorded history. This is a fascinating opportunity to study a rare geologic phenomenon. Our studies of New Terra's shifting magnetic field have produced a serendipitous side
	benefit. We have discovered a way to harness the shifts through electromagnetic induction, producing a substantial amount of electrical power.
Result	Allows production of MHD Generator structure kits at the Structure Factory.
Metallogeny	none 1200 11 Std
Teaser	Metallogeny is the branch of geology that seeks to define the relationship between the geological history of an area and its mineral deposits. Metallogenic research is aimed at achieving a better understanding of the nature and geological settings of base and precious metal deposits, and to use this understanding to help develop areas of high mineral
DESCRIPTION	our Metallogenic research has developed a new technique of locating and exploiting veins of Ore. This new method has increased Common Ore production.
Result	Increases Common Ore Mine yield by 20 percent.
Metals Reclamation	none 900 7 Std
Teaser Description	With our growing needs, we can no longer afford to overlook any possible sources of Metals. A few adaptations to our current Smelter technology may enable us to reclaim some of the materials in structures we no longer need. The Garbage and Ore Recycling Facility (GORF) uses a variant of the hot-cracking technology used at the Common Ore Smelter to extract usable Metals from deconstructed structures, unneeded structure kits, and rubble.
Result	Allows production of GORF structure kits at the Structure Factory.
Meteor Detection	Skydock 1600 12 Std
Teaser	After the recent meteorite impacts, our observations have found that more are to come. New Terra is entering a field of debris, probably caused by the collision of two asteroids. We need a way to track this debris so we can have some advance warning of meteorite impacts.
DESCRIPTION	Our Skydock facility has been fitted with a series of telescopes to look for incoming meteors. This should give us some warning before they fall.
Result	Gives early warning of meteor strikes.
Meteorology	Vulcanology 1500 11 Std
Teaser	Although there have always been electrical discharges in the New Terran atmosphere, the atmosphere's low pressure caused these discharges to be manifested as sudden glows, rather than lightning strikes as on Earth. Now, with the thickening of the atmosphere, dangerous lightning is becoming more of a danger. We need to study these
DESCRIPTION	strikes so that we can predict their occurrence and take precautions. We now understand the atmospheric conditions that lead to filimentous, or arc, lightning discharges in the New Terran atmosphere, and can predict their occurrence. On Earth, collisions between water particles of varying sizes caused the build-up of an electrical charge in the atmosphere. Negatively-charged particles in storm clouds were attracted to the positively-charged ground. The process is similar on New Terra, except that instead of water particles colliding, we have dust particles colliding.
Result	Gives early warning of electrical storms.
r\couit	Oives earry warriing or electrical storms.

Mobile Weapons Pla	atform	Cybernetic Tele	eoperation otical Resonators	1600	12	Adv
Teaser	they point out	mmand Center staff that our defenses a	f is quite pleased wi are rather inflexible, outlined a project for	due to their lack o	of mobility.	At their
DESCRIPTION			s a design adapted veapons hard point,			
Result	Allows produc	ction of Lynx at the	Vehicle Factory.			
Multiple Mine Project		Advanced Com		1800 s	12	Std
Teaser	torical databa launched a pi	ntist interning at a S se about an interes	Standard Lab before ting weapons syste o several smaller we	our last evacuati m used on Earth.	The wear	pon
DESCRIPTION	small mines t trostatic disch	hat are scattered an narge at the first ene	a single projectile, but ound the impact loc emy unit that approa	ation. These min		
Result		SG weapon availabl	le.			
Multitainment Cons	ole Upgrade	Leisure Studies		400	9	Std
Teaser	This project h of our colonis	opes to ease the sit ts use during their o		the multitainmer	t consoles	so man
DESCRIPTION	their high per sign has beer	formance level. The increased, allowing	soles are smaller are e number of units in g the facility to serve	cluded in the Rec e more colonists.		
Result			pacity to 60 Colonist			
Offspring Enhancer		none		300	6 To	Std
Teaser			e must find ways of asing the birth rate a			
DESCRIPTION	fore the destr genetically su	uction of Earth, our	the Human Genome Offspring Enhancer our gene banks, in	ment program inc	ludes sele	ction of
Decult	ment.	-tif NI		t Faatan.		
Result	Allows produ	•	ucture kits at the Str		40	
Orbital Package	I I mana amin'na	Skydock		4600	16	Adv
Teaser Description	will provide da This group of	ata about the planet satellites and probe	ve want to deploy a a and support colony es, to be deployed u	operations. pon reaching our	destinatio	n planet,
Result	and several ty	pes of atmospheric	ations satellite, a sc c and geologic prob Package at the Spac	es.	e, Orbital Ot	JSEI VEI S,
Phoenix Module			ip Components ²	4600	16	Adv
Teaser	early stages	nd our colonists on to of a colony. We hav	he new planet, we r ve in our databases ew Terra, but they a	must send a lande portions of the pla	er to prepa ans for the	re the Seed
DESCRIPTION	and vehicles	needed to start a co	ed lander transform blony. These structure our new home a h	ures are all capab		
Result			Module at the Space			
Public Performance)	Leisure Studies	3	800	8	Std
Teaser	Many of our of Earth during to tions, musica	colonists have been heir off-duty hours. I concerts, and simil	exploring the enterl Some have propos lar entertainments a which such events of	tainment databas sed putting on dra is a method of rai	matic pres sing moral	enta-
DESCRIPTION	This entertain		es sufficient seating			ts, plays
			ture kits at the Struc			

 $^{^{2}}$ These include: Command Module, Fueling Systems, Fusion Drive Module, Habitat Ring, Ion Drive Module, Orbital Package, Sensor Package, Skydock, and Stasis Systems.

Rare Ore Extraction	Rare Or	e Processing			17	Adv
Teaser	Our Rare Ore mining facili	ties have had only	moderate succes	s at finding	the best	t meth-
	ods of extracting higher gra	ades of Rare Ore.	Several proposal	s have bee	en put for	ward to
	improve our efficiency.					
DESCRIPTION	Our project has met with li	mited success. We	e have developed	two new p	rocesse	s that
	determine the Rare Metal	content of certain o	angue materials,	such as qu	uartz, and	d elimi-
	nate specimens containing	g only trace amoun	ts of Rare Metal.	·		
Result	Increases Rare Ore Mine					
Rare Ore Processing		tic Teleoperation		600	16	Adv
	High-Ter	mperature Superco	nductivity			
	Metallog		,			
Teaser	Since our arrival on New T		ountered a number	er of sites t	hat are ri	ich in
	rare mineral deposits, but	we have had neithe	er applications wh	ch called f	or Rare I	Metals
	nor methods of processing					
	projects they wish to unde					
DESCRIPTION	Rare Metals will be a grea				eral new	re-
	search projects.					
Result	Allows production of Rare	Ore Smelter and F	Rare Metals Storag	ge Tanks s	tructure	kits at
	the Structure Factory, and	allows Robo-Mine	rs to deploy as Ra	re Ore Mi	nes. Inci	reases
	Robo-Miner production co					
Recycler Postproces		Reclamation			10	Std
Teaser	The hot-cracking column u	used in our GORFs	successfully recl	aims appro	oximately	
	of the Metals content of ma					
	that can recover additional				, ,	
DESCRIPTION	Metals recovered through	recycling increase	d.			
Result	Increases Metals recovered	ed through recyclin	g			
Reduced Foam Evap	oration Dissipati	ng Adhesives	18	800	12	Std
Teaser	Although the immobilizing	effect of StickyFoa	m is very useful, i	s evapora	tion rate	is in-
	conveniently short. We pr	opose to slow the	evaporation rate o	fthe Foam	by intro	ducing
	certain chemical stabilizing					
DESCRIPTION	We have added stabilizers				t causes	the
	Foam to evaporate more s			S.		
Result	Increases StickyFoam dur	ration by 50 percen	ıt			
Reinforced Vehicle C		e Processing	14		12	Std
Reinforced Vehicle C Teaser	The Cargo Truck, and son	e Processing ne similar vehicles,	have shown then	nselves to	be all too	vul-
	The Cargo Truck, and son nerable to damage from di	e Processing ne similar vehicles, sasters, explosions	14 have shown then s, and attacks. Th	nselves to rough the	be all too use of ne	vul-
Teaser	The Cargo Truck, and son nerable to damage from di composite alloys incorpora	e Processing ne similar vehicles, sasters, explosions ating Rare Metals, v	14 have shown then s, and attacks. Th we can increase the	nselves to irough the neir durabi	be all too use of no lity.	o vul- ew
	The Cargo Truck, and son nerable to damage from di composite alloys incorpora The durability of these veh	e Processing ne similar vehicles, sasters, explosions ating Rare Metals, v icles has been imp	14 have shown then s, and attacks. The we can increase the proved through a common the short through a common through a commo	nselves to rough the neir durabil ombination	be all too use of no lity.	o vul- ew
Teaser Description	The Cargo Truck, and son nerable to damage from di composite alloys incorpora The durability of these veh construction and the use of	e Processing ne similar vehicles, sasters, explosions ating Rare Metals, v iicles has been imp of a composite alloy	have shown then s, and attacks. The can increase the coroved through a cororporating Ra	nselves to rough the neir durabil ombination re Metals.	be all too use of ne lity. n of revis	o vul- ew sed
Teaser	The Cargo Truck, and son nerable to damage from di composite alloys incorpora The durability of these veh construction and the use of Increases Hit Points and of	e Processing ne similar vehicles, sasters, explosions ating Rare Metals, v iicles has been imp of a composite alloy	have shown then s, and attacks. The can increase the coroved through a cororporating Ra	nselves to rough the neir durabil ombination re Metals.	be all too use of ne lity. n of revis	o vul- ew sed
Teaser Description	The Cargo Truck, and son nerable to damage from di composite alloys incorpora The durability of these veh construction and the use of	e Processing ne similar vehicles, sasters, explosions ating Rare Metals, icles has been imp of a composite alloy changes production	have shown then s, and attacks. The we can increase the proved through a control of the costs of ConVector incorporating Rain costs of ConVector incorporating Rain costs of ConVector incorporation and incorporation in the costs of ConVector in the costs of C	nselves to rrough the neir durabil ombination re Metals. s, Cargo T	be all too use of no lity. n of revis	o vul- ew sed
Teaser Description	The Cargo Truck, and son nerable to damage from di composite alloys incorpora The durability of these veh construction and the use of Increases Hit Points and of Evacuation Transports.	e Processing ne similar vehicles, sasters, explosions ating Rare Metals, icles has been imp of a composite alloy changes production Cargo Truck	have shown thems, and attacks. The we can increase the proved through a control of the costs of ConVec	nselves to rrough the neir durabil ombination re Metals. s, Cargo T	be all too use of no lity. n of revis rucks, ar	o vul- ew sed
Teaser Description	The Cargo Truck, and son nerable to damage from di composite alloys incorpora The durability of these veh construction and the use of Increases Hit Points and Cevacuation Transports. Hit Points	e Processing ne similar vehicles, sasters, explosions ating Rare Metals, icles has been imp of a composite alloy changes production Cargo Truck 750	have shown thems, and attacks. The can increase to roved through a control incorporating Range costs of ConVector ConVector Tool incorporation Range costs of ConVector Tool Incorporation Range	nselves to rrough the neir durabil ombination re Metals. s, Cargo T	be all too use of no lity. n of revis rucks, ar tion Tra 280	o vul- ew sed
Teaser Description	The Cargo Truck, and son nerable to damage from di composite alloys incorpora The durability of these veh construction and the use of Increases Hit Points and of Evacuation Transports. Hit Points Common Metals cost	e Processing ne similar vehicles, sasters, explosions ating Rare Metals, icles has been imp of a composite alloy changes production Cargo Truck 750 500	have shown thems, and attacks. The can increase the convect through a convection of the convection of	nselves to rrough the neir durabil ombination re Metals. s, Cargo T	be all too use of ne lity. n of revis rucks, ar ation Tra 280 650	o vul- ew sed
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Robotic Image Proce		Cybernetic Teleoperation		12 Std
Teaser		gnition systems of our robotic vehi-		
		imitations of the image processing	software. Some of our	programmers
DECORPTAN	have a possible		aina aafhuara cardina	anad =ac==
DESCRIPTION		pination of improved image proces on systems, the visual recognition		
	proved.	on systems, the visual recognition	range or certain units na	as Deen IIII-
Result	•	ranges of Light Tower (to 9). Guard	d Post (to 0) and Scout	(to 8)
Rocket Atmospheric F		ranges of Light Tower (to 9), Guard Electromagnetic Pulsing		(10 6). 14 Adv
Nocket Attriosphienc r	e-enu y System	Space Program	4300	14 Auv
Teaser	Our SULVs hav	e been designed to launch payloa	ds into orbit, but the only	v portion which
reaser		Ferra is the nose cone containing t		
		to assemble a new model of SUL		
DESCRIPTION		ntry program has had limited succ		
		be launched at the Eden colony a		
Result		on of EMP Missiles at the Spacepo		
Rocket Propulsion		Advanced Combat Chassis	2000	12 Adv
·		Independent Turret Power Syste	ems	
Teaser	Some of our col	onists, reviewing late twentieth cer	ntury military history, ha	ve expressed
	an interest in roo	cket propulsion as a means to a ne	ew weapons system.	
DESCRIPTION		ulsion project, has produced a nev		ng Rocket Pro
		s (RPGs) to deliver an explosive c	harge.	
Result		weapon available.		
Scorpion Power Sys		Arachnid Weaponry		14 Adv
Teaser		n the Scorpion are just not powerfu		
DECORPTION		unt of damage they do by improving		
DESCRIPTION		ightly larger power system in the S	scorpion, we have incre	ased its comb
Dogult	effectiveness su			
Result		oion penetration damage to 30.	1800	12 Std
Scout-class Drive Tr Teaser		Mobile Weapons Platform some similar vehicles, use the G-		
i easei		e G-75 that impairs its efficiency.		
	make it more eff		Triis project would rede	sign the G-75
DESCRIPTION		train used in these three vehicles I	has been replaced by th	e G-80 model
DESCRIPTION		vehicle speed through a more effi		
	plant to the whe			
Result		t, Robo-Surveyor, and Lynx speed	ds.	
Seismology		none		11 Std
Teaser	Our previous res	search on the geology of New Ter		
		nic activity; recent events, however		
		ces database shows that seismolo		
		ction on Earth; some of these tech		
DESCRIPTION		pped equipment to detect certain h		
		ts. Among the most reliable indica		
		rbon dioxide in the molten salts for	•	
		s should give us some time to idle	structures in the vicinity	of the epicen-
Dogult	ter, reducing da			
Result	Gives early war	ning of seismic events.	4600	16 ^-!
Sensor Package	Our stambin m	Skydock		16 Adv
Teaser		ist have a remote sensing system oid collision with asteroids and oth		
		tellar probes we send out to find ou		ia, it will lecell
DESCRIPTION		depart the New Terra system, we re		Our Sensor
DECOM HON		es a Nanoprobe launcher, capable		
		ward potentially habitable planets,		
	•	reports sent back by the Nanopro	•	,
Result		on of the Sensor Package at the S		
Severe Atmospheric	•	Meteorology		12 Std
Teaser		e have been experiencing are a ne	ew phenomenon on Nev	w Terra; we
	must study thes	e severe storms to determine how	they are caused and h	ow to predict
	them.			-
DESCRIPTION	The vortexes sta	art in a manner similar to the 'dust-	devils' common on Earl	th and Mars.
		, heated by sunlight, rises. Cooler		
		eft, but from there, the spinning co		
	, ,	vn process which may be electron	•	
		ed, we can now forecast conditions	s that will lead to their fo	mation, and
.		technologies for early detection.		
Result	Gives early war	ning of vortexes.		

Skydock	Space Program 4600 16 Adv
Teaser	Our Skydock will function as an orbital command post. In addition to docking facilities for
	our launch vehicles ferrying components and technicians, it serves as a command and
D	control facility for construction of our starship.
DESCRIPTION	Now that we have regained space launch capabilities, we can begin construction of a
	new starship. The first step is an orbital station from which we can start deploying com-
D "	ponents of the ship.
Result	Allows production of the Skydock at the Spaceport.
Smelter Postproce	
_	Recycler Postprocessing
Teaser	The chemical postprocessing technique we developed for improving metals reclamation
D	at the GORF may be adaptable for use at our Common Ore and Rare Ore Smelters.
DESCRIPTION	We have successfully adapted the chemical postprocessing treatment used at the
Decult	GORF to improve the yield of our Smelters.
Result	Increases Common Ore Smelter and Rare Ore Smelter production.
Solar Power	Space Program 3700 16 Adv
Teaser	The technology behind solar power has been available for quite some time, the size of
	the solar collector panels needed to generate a significant amount of power has always
	been judged prohibitive, especially since our periodic evacuations began. However, with
	the redevelopment of a space program, it is possible to build a solar collector satellite
DESCRIPTION	which beams the energy it collects to a ground-based receiver. The solar power system, comprised of a collector satellite and ground-based receiver, is
DESCRIPTION	an inexpensive alternative energy source. The satellite, once in orbit, can be retargeted
	at a new ground location after an evacuation, and the receivers are much less volatile
	than our Tokamak fusion reactors.
Result	Allows production of the Solar Power Array at the Structure Factory and the Solar Power
result	Satellite at the Spaceport.
Space Program	Rare Ore Processing 4600 16 Adv
Teaser	Many of our colonists feel, now that our colony is beginning to grow, that it would be wise
1 00001	to start another starship project. Having colonies on separate planets would help to en-
	sure the survival of humanity.
DESCRIPTION	Our space program is underway. As an initial cargo, we have developed the Early Dis-
	aster Warning and Resource Detection (EDWARD) satellite.
Result	Allows production of Spaceport structure kits at the Structure Factory. The Spaceport
	may produce Single-Use Launch Vehicles (SULVs) and the EDWARD Satellite.
Spider Maintenance S	
Teaser	Bugs in the software controlling our Spiders' repair function are impairing its ability to
	make repairs on structures and vehicles. Although the Spiders are adequately perform-
	ing this function, we believe we can make some improvements.
DESCRIPTION	Spider Maintenance Software version 1.32 has been installed in all Spider units, fixing
	some inadequacies in the damage diagnostics and repair procedures routines.
Result	Improves Spider repair rate by 25 percent.
Stasis Systems	Habitat Ring 4600 18 Adv
	Health Maintenance
Teaser	The cold-sleep system used in the 'Conestoga' successfully slowed the metabolic rate of
	the colonists traveling from Earth to New Terra, but at the cost of shortening their lives
	once they had arrived. Fortunately, our medical technology has advanced significantly
	since our arrival, and we believe we now have a method of inducing true suspended ani-
DECODIDATION	mation without the same loss of longevity. The Stacic Systems contain supponded animation chambers for 200 colonists. This
DESCRIPTION	The Stasis Systems contain suspended animation chambers for 200 colonists. This
	module, like the Habitat Ring, is equipped with our superconductive magnetic coil radia-
Pocult	tion shield system. Allower production of the Stacic Systems at the Spaceport.
Result Vulcanology	Allows production of the Stasis Systems at the Spaceport. Seismology 1300 10 Std
Teaser	Recent volcanic activity on New Terra threatens our colony. To protect our colonists, we
i CaoGi	need to develop a method of predicting eruptions so that we can safely evacuate our
	colonists.
DESCRIPTION	Using data from our planetary sciences database as well as investigations of volcanoes
PLOCKIT HON	and magma vents here on New Terra, we have developed an early warning system that
	will accurately predict volcanic eruptions. Our dual-method monitoring system uses seis-
	mometers to measure rock movement that may indicate rising magma in the planet's
	crust and correlation spectrometers that measure sulfur dioxide in plumes rising out of
	Volcanic craters.
Result	Gives early warning of volcanic eruptions.
	,

Research Lists for Weapons Systems and Combat Chassis

Weapons Systems

Microwave (1 topic)

■ Focused Microwave Projection

Starflare (4 topics)

- Cybernetic Teleoperation
- Focused Microwave Projection
- Mobile Weapons Platform
- Explosive Charges

StickyFoam (4 topics)

- Cybernetic Teleoperation
- Focused Microwave Projection
- Mobile Weapons Platform
- Dissipating Adhesives

EMP (11 topics)

- Cybernetic Teleoperation
- Focused Microwave Projection
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Advanced Vehicle Power Plant
- Independent Turret Power Systems
- Rare Ore Processing
- Advanced Combat Chassis
- Electromagnetic Pulsing

RPG (11 topics)

- Cybernetic Teleoperation
- Focused Microwave Projection
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Advanced Vehicle Power Plant
- Independent Turret Power Systems
- Rare Ore Processing
- Advanced Combat Chassis
- Rocket Propulsion

ESG (11 topics)

- Cybernetic Teleoperation
- Focused Microwave Projection
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Advanced Vehicle Power Plant
- Independent Turret Power Systems
- Rare Ore Processing
- Advanced Combat Chassis
- Multiple Mine Projectile System

Supernova (13 topics)

- Cybernetic Teleoperation
- Focused Microwave Projection
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Explosive Charges
- Advanced Vehicle Power Plant
- Independent Turret Power Systems
- Rare Ore Processing
- Advanced Combat Chassis
- Rocket Propulsion
- High-Powered Explosives

Combat Chassis

Lynx (3 topics)

- Cybernetic Teleoperation
- Focused Microwave Projection
- Mobile Weapons Platform

Panther (9 topics)

- Cybernetic Teleoperation
- Focused Microwave Projection
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Advanced Vehicle Power Plant
- Rare Ore Processing
- Advanced Combat Chassis

Starship (17 topics)

- Cybernetic Teleoperation
- Health Maintenance
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Rare Ore Processing
- Space Program
- Skydock
- Command Module

Tiger (11 topics)

- Cybernetic Teleoperation
- Focused Microwave Projection
- Metallogeny
- Research Training Programs
- High-Temperature Superconductivity
- Mobile Weapons Platform
- Advanced Vehicle Power
 Plant
- Rare Ore Processing
- Advanced Combat Chassis
- Reinforced Vehicle Construction
- Dual-Turret Weapons Systems
- Habitat Ring
- Ion Drive Module
- Orbital Package
- Sensor Package
- Fueling Systems
- Fusion Drive Module
- Stasis Systems
- Phoenix Module