



Uiber Astarte

Detailed Star System and Planetary Creation Guide



**An Unofficial Supplement
For Dark Heresy , Rogue Trader and Deathwatch**

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Foreword



So, what's this 'ere then?

While the directions for populating the void given in the Game Master's Kit for Rogue Trader may be great for generating quick star systems, sometimes a game master wants a more fleshed out or complete description.

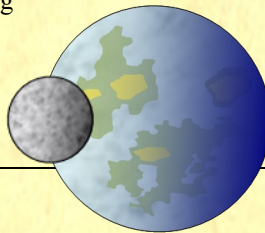
That's where this comes in.

What you have before you is a much more detailed star system generator. Maybe too detailed. Many things are still treated with a degree of needed abstraction, but within the tables and descriptions, many of them optional, Game Masters should find a wealth of information for developing as detailed a star system or planet as they may wish to and ideas for using the information in game.

This work is divided into three parts:

1. **Star System Creation:** Allows the game master to develop a fairly comprehensive star system with a wide range of conditions and variables. Allows for the creation of single or multiple star systems.
2. **Detailed Planet Creation:** Allows for the creation of detailed planets complete with size, atmosphere types, cryosphere and humidity among other things. Descriptions of the world types are provided.

Everything is presented in what hopefully is a fairly easy to use format of steps and tables. Take and use what you will. The greatest tool a game master has is the imagination. Hopefully this will serve to inspire you .



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Future additions may include rules and facts for more exotic stars, such as pulsars, some premade starsystems and maybe some ideas for creating exotic xeno-life.

Future works will be uploaded as separate addendums to this work.

I. Star System Generation



The characteristics of stars which we will need to determine.

A star has five main characteristics, but only two of which concern us here: (1) spectra or color, and (2) size. Color depends on surface temperature, and brightness depends on surface temperature and size. Mass affects the rate at which a star of a given size produces energy and so affects surface temperature. To make these relationships easier to understand, astronomers developed a graph called the Hertzsprung-Russell (H-R) diagram to help astronomers understand and describe the life cycles of stars.

Luminosity classes









In the 1930's, American astronomers William W. Morgan and Philip C. Keenan invented what came to be known as the MK luminosity classification system for these groups. Astronomers revised and extended this system in 1978. In the MK system, the largest and brightest classes have the lowest classification numbers. The MK classes are: Ia, bright supergiant; Ib, supergiant; II, bright giant; III, giant; IV, subgiant; and V, main sequence or dwarf.

Spectral classes

In the MK system, there are eight spectral classes, each corresponding to a certain range of surface temperature. From the hottest stars to the coolest, these classes are: O, B, A, F, G, K, and M. Each spectral class, in turn, is made up of 10 spectral types, which are designated by the letter for the spectral class and a numeral. The hottest stars in a spectral class are assigned the numeral 0; the coolest stars, the numeral 9.

A complete MK designation thus includes symbols for luminosity class and spectral type. For example, the complete designation for the sun is G2V. Alpha Centauri A is also a G2V star, and Rigel's designation is B8Ia.

Spectral class of star.

Star	Spectrum	Surface Temperature	Average Mass Sun = 1	
W	Blue-Violet	30,000 to 150,00 k	> 20	
O	Blue	30,000 to 60,000 k	60	
B	Blue White	10,000 to 30,000 k	18	
A	White	7500 to 10,000 k	3.2	
F	Yellowish White	6000 to 7500 k	1.3	
G	Yellow	5000 to 6000 k	1.1	
K	Orange	3500 to 5000 k	0.8	
M	Red	< 3500 k	0.3	

Luminosity class of star.

Type	Star Description
Ia	Very luminous supergiants
Ib	Less luminous supergiants
II	Luminous giants
III	Giants
IV	Sub-giants
V	Main sequence stars (dwarf stars)
VI	Subdwarf
VII	White dwarfs

A note on orbital placement

The location of orbits used here is based upon the *Titus-Bode Law*. There is still some controversy about the validity of the theory. For the purpose of game mechanics it is quite useful.

Start by determining Star System Information

Follow numbered steps. Record on Star System Data Record Sheet

- Determine system type.
- Determine class and size of star.
- Determine decimal classification.
- If star is part of a multiple star system determine spectrum class and size of companion (s) using table 4a. If star is solitary skip part 4.
- Determine orbital zones around star. If star is in a multiple star system table 5b can be consulted for zones around each star.
- In this step determine star's Inner, Bio, and Outer zones using appropriate table for the star class.
- Determine the contents of each available orbit.
- Determine if there are any captured bodies.
- Determine satellites

1. Determine System Type

d10	Result
1 - 5	Solitary
6 - 10	Multiple

2. Determine Star Class and Size

Roll for each star in system

2a. Primary Star

2d10	Class Result	2d10	Size Result
2 - 3	A	2	II
4 - 7	F	3 - 4	III
8 - 12	G	5 - 8	IV
13 - 17	K	9 - 18	V
18 - 20	M	19 - 20	VI

2b. Multiple System Companion

2d10	Class Result	2d10	Size Result
2	A	2	II
3 - 4	F	3	III
5 - 8	G	4 - 6	IV
9 - 13	K	7 - 14	V
14 - 20	M	15 - 18	VI
		19 - 20	d *

2c. Dwarf Star Class

2d10	Dwarf Type
2 - 4	dA
5 - 7	dF
8 - 11	dG
12 - 16	V
17 - 20	VI

Red Dwarfs White Dwarfs

3. Decimal Classification

Roll 1d10

For a result between 0 - 9. Place after class and before size.
i.e.: G3 V, O6 III, etc

NOTE:

d class white dwarfs do not use decimal classification. But red dwarfs do. 5 to 9 are not possible for K and H class in size IV. B,A, and F0 to 4 are not possible in size VI.

d* Result: Roll on Table 2c.

Use of the terms "Multiple Star System", "Binary", "Triple", etc.

A star system consisting of two stars is known as a binary star or binary star system. Examples of binary systems are Sirius and Procyon .

Multiple star systems are systems of more than two stars. Multiple star systems are called triple, trinary or ternary if they contain three stars; quadruple or quaternary if they contain four stars; quintuple with five stars; sextuple with six stars; septuple with seven stars; and so on. Most multiple star systems known are triple systems.

Open star clusters typically have from 100 to 1,000 stars.



4a. Companion Star Orbit For Multiple Systems

1d10 Orbit

1	1 Close *
2	2
3	1d10 + 2
4	1d10 + 4
5	1d10 + 6
6	1d10 + 8
7	1d10 + 10
8 - 10	Roll on 4b.

4b. Far Companion Star Orbit

Roll 1d10 x 1000 to determine the companions orbital distance in AU. Far companion stars may themselves be multiple systems. Go back to **System Type** to determine.

NOTE:

Any star system with small massive stars, such as a white dwarf, within 2au of the primary will be a candidate for periodic novas. The more massive smaller star leaches stellar material from it's less dense companion. As the gas is compressed and heated on or near the surface of the smaller star nuclear fusion of the material will occur, blasting the shell of gas away in a violent nova explosion. In such a system the close orbit planets and perhaps even the outer planets may be striped of their atmospheres. Life as we know it on the surface of such worlds will be impossible. Very close stars may be physically touching, making for a very interesting display.

5a. Determine Number of Orbits

Roll 1d10

Modifiers

Size






Ia, Ib	+9
II	+8
III	+6
Class	
M	-6
K	-3

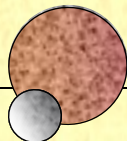
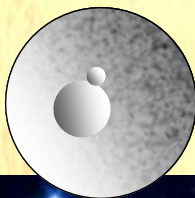
5b. Available Orbits in Multiple Star Systems (Optional)

B in Orbit	Between B and A	Beyond B	B Itself	B in Orbit	Between B and A	Beyond B	B Itself
1	-	2+	0	8	0 - 3	9+	0 - 5
2	0	3+	0 - 1	9	0 - 4	10+	0 - 6
3	0 - 1	4+	0 - 1	10	0 - 5	11+	0 - 7
4	0 - 1	5+	0 - 2	11	0 - 6	13+	0 - 8
5	0 - 2	6+	0 - 2	12	0 - 7	14+	0 - 4
6	0 - 2	7+	0 - 3	13	0 - 8	15+	0 - 5
7	0 - 3	8+	0 - 4	+1	+1	+1	+1

6. Stellar Orbital Zone Charts

Use these tables to determine Inner, Outer and habitable zones around a star. Stars are listed in order of size. Next proceed to step 7, Determine orbital contents.

-  Orbit lies within the outer atmosphere of the star.
-  Temperature too high, planet would be vaporized.
-  Inner zone
-  Habitable biozone
-  Outer zone



Star Size d Red Dwarf

Orbit around star

Star	0	1	2	3	4	5
dK0	Blue	Blue	Blue	Blue	Blue	Blue
dK5	Blue	Blue	Blue	Blue	Blue	Blue
dM0	Blue	Blue	Blue	Blue	Blue	Blue
dM5	Blue	Blue	Blue	Blue	Blue	Blue

Star Size d White Dwarf

Orbit around star

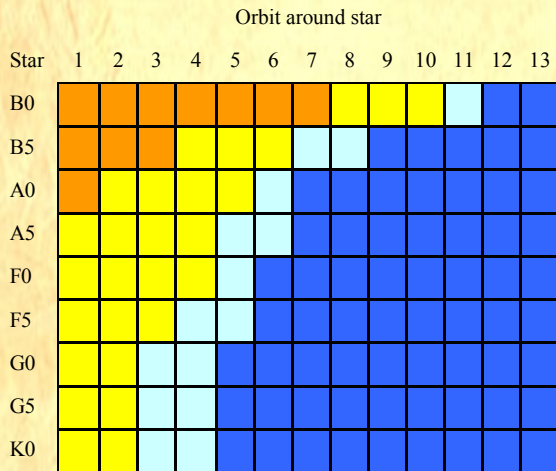
Star	0	1	2	3	4	5
dA	Light Blue	Blue	Blue	Blue	Blue	Blue
dF	Blue	Blue	Blue	Blue	Blue	Blue
dG	Blue	Blue	Blue	Blue	Blue	Blue

Note:

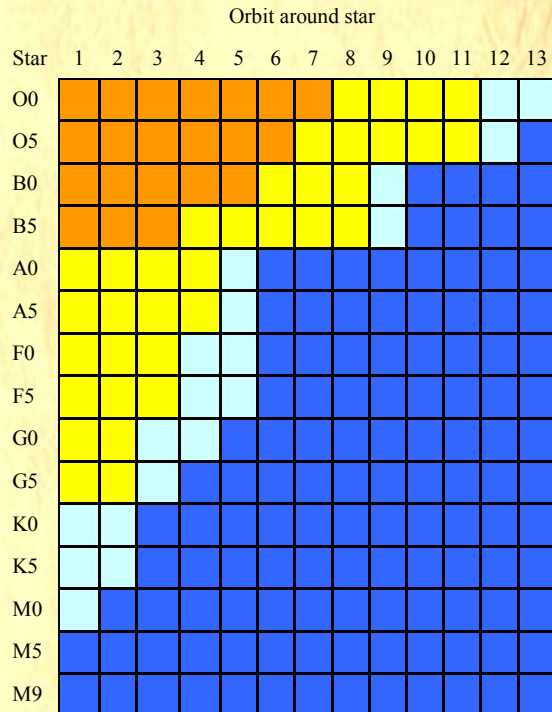
Orbit 0 lies at .2au from the star.

Remember that white dwarfs are the result of a dying star, thus many of the inner orbits, 0 - 4 may be empty, having long since been vaporized. Instead, rogue worlds recently captured or worlds newly formed from the debris of the old may inhabit these zones.

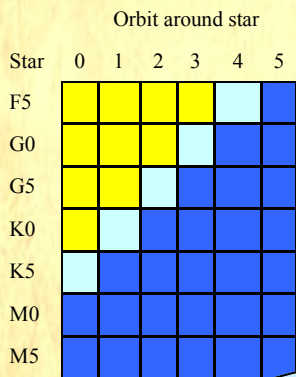
Star Size IV Subgiants



Star Size V Main Sequence

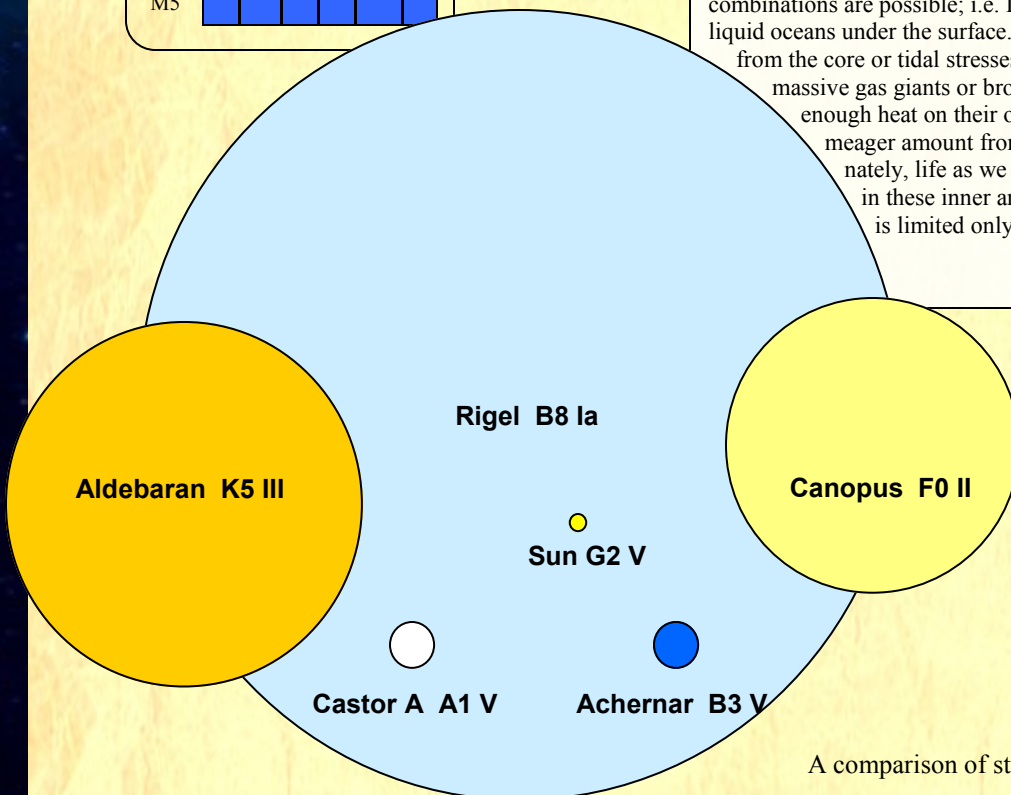


Star Size VI Dwarf



A Note on Biozones.

The biozone is the area around a star where liquid water may be found, and thus life as we know it is possible. Other combinations are possible; i.e. Iceball worlds with vast liquid oceans under the surface. Worlds where ice heated from the core or tidal stresses, or worlds orbiting super massive gas giants or brown dwarfs which radiate enough heat on their own to compensate for the meager amount from the parent star. Alternately, life as we don't yet know it may thrive in these inner and outer zones. The universe is limited only by your imagination!



A comparison of star sizes. I.

7. Determine Orbital Contents

Use these tables to determine Inner, Outer and habitable zones around a star.

Roll for Each Orbit

Proceed to the next step.

Inner System Zone	
d100	Planet Description
01- 10	Empty orbit
11- 21	Asteroid belt
22 - 40	Mesoplanet
40 - 60	Small Terrestrial
61 - 65	Geoactive
66- 71	Super Terrestrial
72	Small Gas giant
73	Gas giant
74 - 87	Reducing
88	Gas Supergiant
89	Gas Ultragiant / Brown dwarf
90 - 100	Ultra Hostile

Note:

World classes **Proto-planet**, and **Exotic** should not be determined randomly. Proto-planet worlds are found normally, but not exclusively, in young star systems with other proto-planet worlds. The Exotic class should rare. These worlds and their particulars should be assigned by the Game Master and not left to chance.

Habitable Zone	
d100	Description
01- 10	Empty orbit
11- 21	Asteroid belt
22 - 30	Mesoplanet
31 - 40	Small Terrestrial
41 - 45	Geoactive
46 - 48	Super Terrestrial
49 - 56	Desert
57	Gas supergiant
58	Gas giant
59 - 64	Marginal
65 - 70	Marginal
71 - 81	Terrestrial
72 - 77	Reducing
78 - 83	Oceanic
84 - 89	Glaciated
90	Gas Ultragiant
91	Gas Ultragiant / Brown dwarf
92 - 100	Ultra Hostile

Outer System Zone	
d100	Description
01- 10	Empty orbit
11- 21	Asteroid belt
22	Mesoplanet
23	Small Terrestrial
24	Geoactive
25 - 29	Super Terrestrial
30 - 40	Gas supergiant
51 - 71	Gas giant
72 - 82	Gas Ultragiant
83 - 88	Gas Ultragiant / Brown dwarf
89 - 94	Ice World
95 - 100	Dirty Snowball

7a. Determine Primary Asteroid Composition (Optional)

1d10	Class	Composition
-2 - 4	aM	Nickel-Iron. Perhaps other heavy metals
5 - 7	aS	Stone and rock
8 - 9	aC	Carbon, Hydrated materials, hydrocarbons.
10+	aI	Water ice, frozen methane, other frozen gasses or liquids. These are the bodies that make up comets.

Modifiers:

Inner System -2 Outer System +3
Biozone -2

8. Determine if there are any Captured Planets in System (All Steps Optional)

Use this table to determine number of Captured Planets a Star System has, if any
 Note on Star System Data Sheet

8a. Captured or Rouge Planets

Number of captured planets is equal to: 1d10 -6

8b. Placement of Captured Planets

Determine orbit placement of each with 1d10 +2 roll. Then roll for a decimal placement to create an orbital position like 5.8

Determine planet type as before.

8b. (Option) Creating irregular orbits

Note orbital placement of planet, asteroid, or comet as in step 8b.

Roll again to get another Orbital Placement as in 8b, this time without the -2 modifier, leaving you with 2 numbers; e.g. 3.6 , 10.5.

The smaller number is the closest approach to the star, the larger the furthest . The orbits in-between are crossed by this planet.

8c. Captured or Irregular / Rouge Asteroids

Roll Just as for a *Captured Planet*.



9. Determine Satellites for Each World

Use these tables to determine number of satellites a world has.
 Note on Star System Data Sheet and/or Planet Data Sheet

Satellite and Ring Table

Type of Moon	Planet Classes				General Information	Typical Size (1000 km)
	Classes Mesoplanet Sm. Terrestrial	Classes Terrestrial, all	Classes Sm. Gas Giant Gas Giant	Classes Gas Supergiant Gas Ultrajiant		
Minor ring system	-	1d10 - 9	1d10 - 5	1d10 - 2	Thin rings composed of dust, stone or in outer system, Ice crystals.	From Microscopic to dust to Ice crystals
Major ring system	-	-	1d10 - 8	1d10 -5	Thick rings composed of dust, stone or in outer system, Ice.	From Microscopic to dust to Ice crystals to boulders.
Moonlets	1d10 - 7	1d10 - 6	1d10	1d10 +3	Small class B worlds not much more than asteroids captured by the planet's gravity. In outer system these may be bits of Ice.	1 or less
Small Moons	1d10 - 9	1d10 - 7	1d10 - 1	1d10 +1	Small rocky Class B world or in outer system, Class U or W ice worlds, no atmosphere.	2
Medium Moons	-	1d10 - 9	1d10 -3	1d10	Rocky Class B or in outer system, Class U or W ice worlds, no atmosphere.	
Large Moons	-	-	1d10 - 6	1d10 -4	As above, possible tenuous atmosphere	3 - 4
Huge Moons	-	-	1d10 -8	1d10 - 6	Roll as you would for a planet ignoring rolls for Super terrestrial or any gas Giant	5+

9a. Determine Distance of Moon from Parent Planet (Optional)

Non-Gas Giant planets use chart 1 on table 10a.
 For Gas Giants consult class and roll 1d10 to determine table.
 For Ring Systems consult Ring System Table.

Multiple moons in an orbit are allowed. These are called co-orbital

9a. Distance of Moon from Parent Planet in Radii

1d10 Roll	Chart 1		Chart 2	Chart 3	Ring Systems
	Close Orbits	Med. Orbits	Med. Orbits	Far Orbits	Distance in Radii
Small Gas Giants	1 - 7	8 - 10			
Gas Giants	1 - 6	7 - 9		10	
Ultragiants	1 - 4	5 - 8	9 - 10		

1d20 Roll	Distance in Radii	Distance in Radii	Distance in Radii	Distance in Radii
2	15	90	185	1
3	16	95	190	2
4	17	100	195	3
5	18	105	200	4
6	19	110	205	5
7	20	115	210	6
8	25	120	215	7
9	30	125	220	8
10	35	130	230	9
11	40	135	240	10
12	45	140	250	11
13	50	145	260	12
14	55	150	270	14
15	60	155	280	16
16	65	160	290	18
17	70	165	300	20
18	75	170	320	25
19	80	175	340	30
20	85	180	360	35

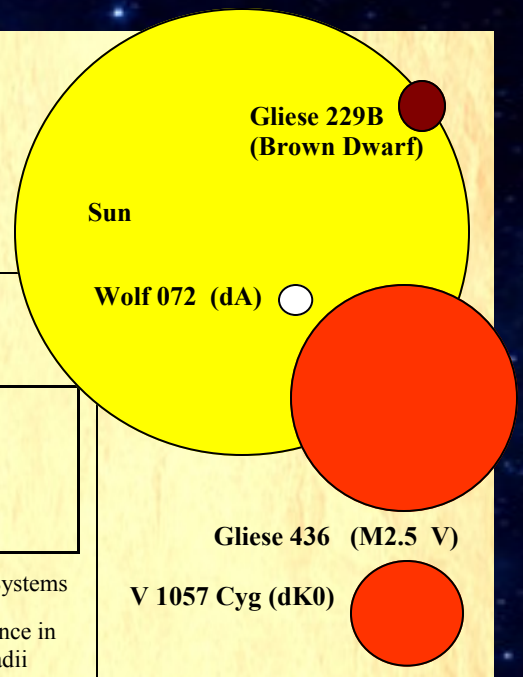
Close Orbits Med. Orbits Far Orbits

9b. Determining Distance of Moon from Parent Planet in Km. Optional)

Planet's Radius x Orbital Radii = Distance in Km.

NOTE:

Captured planets may have very irregular orbits, possibly crossing the orbits of other worlds and causing gravitational havoc in a star system until they settle into a stable orbit or crashes into another planet.



A comparison of star sizes. II.

Remember -

**Aim thy Weapon at the Unclean.
 Seek the Guidance of The God Emperor of Mankind that thy aim be true.
 Invoke the machine spirits of the Delivery System and Ordinance that they may Awaken and Slay the Enemies of Man.**

Lay down Thy Firepower Righteously and in Great Quantity.

Cleanse the Unclean with Fire and Bolt, Sword and Las.

II. Planet Generation



Use these tables to determine detailed Planetary Information

Follow numbered steps. Record on Planetary Data Record Sheet

1. Determine World Size.
2. Determine World Gravity.
3. Determine Atmospheric Makeup.
4. Determine Hydrosphere, Cryosphere, Volcanism and Tectonic Plate Activity.
5. Determine Land Area Percentage.
6. Determine Relative Humidity Percentage.
7. Determine Hours in Planetary Day
8. Determine Planetary Mean Temperatures
9. Determine General Climate.
10. Determine Minerals found on Planet
11. Determine other items of interest.

Determine World Size, Diameter

1a. Non Gas Giants

Description	Size (x1000 km)	Note
Proto planet	2d10	
Mesoplanet	1d10 - 6	Treat any result of less than 1 as 800km or 0 .8
Small Terrestrial	1d10 + 3	Treat any result of more than 9 as 9
Terrestrial , All	1d10 + 5	Treat any result of less than 8 as 8
Super Terrestrial	2d10 + 10	Treat any result of less than 16 as 16
Chthonian	2d20	
Ice World	1d10	Treat any result of less than 4 as 4
Dirty Snowball	1d10	Treat any result of less than 4 as 4
Ultra Hostile	1d10 + 5	

1b. Gas Giants

Type	Size (x1000 km)
Small Gas giant	7d10 +30
Gas giant	(1d10 x10) +100
Gas Supergiant	(1d10 x10) +200
Gas Ultragiant / Brown dwarf	(1d10 x10) +200

Note: Any Gas Giant with a diameter of greater than 140 km is a candidate for a brown dwarf if dense enough, 13 times or greater than the mass of Jupiter.

1c. Determine World Size, Equatorial Circumference

$$3.1416 \times \text{Diameter} = \text{Circumference}$$

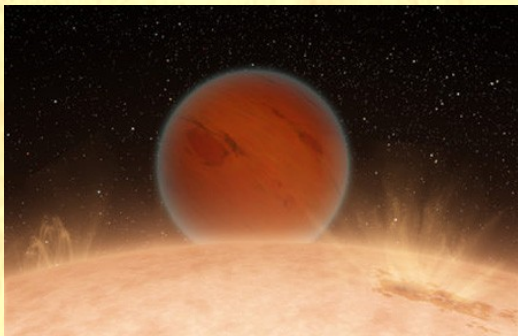
1d. Determine World Size, Surface Area (Optional)

$$(3.1416 \times \text{radius}) \times 4 = \text{Surface area in km}^2$$

Radius is equal to 1/2 diameter

2. Determine World Gravity (Optional)

$$\text{Diameter} / 12 = \text{Gravity in standard G's}$$



**The True Value of a Man is Measured by His Death,
or the Death of His Enemies.**

3. Determine Atmospheric Makeup

Consult table below for possible atmospheric gasses. These are only probable recommendations based upon planetary class. Feel free to be creative. Remember, the gases listed are the primary atmospheric gas. Other gasses in lesser quantities will be present.

3a. Determine Atmospheres for Planets other than Inhabitable (Optional)

Treat Less than 1 as 1, more than 10 as 10

1d10	Proto-planet
1 - 2	None
3 - 4	Hydrogen
5	Hydrogen Sul-fide
6	Carbon Dioxide
7 - 10	Methane

1d10 Roll	Geoactive
1	None
2	Hydrogen
3	Hydrogen Fluoride
4 - 7	Hydrogen Sul-fide
8 - 10	Sulfur Dioxide

1d10 Roll	Mesoplanet
1 - 3	None
4 - 5	Hydrogen
6 - 8	Helium
9 - 10	Methane

1d10 Roll	Reducing or Ultra Hostile
1	Hydrogen
2	Bromine
3 - 4	Hydrochloric acid
5 - 6	Sulfuric Acid
7	Oxygen
8	Fluorine
9 - 10	Chlorine

1d10	Marginal
1 - 5	Carbon Dioxide
6 - 10	Methane

1d10	Chthonian
1-5	None
6 - 7	Hydrogen
8 - 10	Helium

1d10 Roll	Ice World, Dirty Snow-ball
1	None
2	Hydrogen
3 - 10	Methane

1d10 Roll	Super Terrestrial
1 - 5	Carbon Dioxide
6	Hydrogen Sul-fide
7 - 9	Methane
10	Chlorine

1d10 Roll	Small Terrestrial
1-5	None
6 - 7	Hydrogen
8 - 10	Helium

Modifiers: Treat Less than 1 as 1, more than 10 as 10. Size is Diameter / 1000

Location	Size
Inner System -2	Under 5 -2
Biozone +1	Over 8 +1
Outer System +2	

3b. Determine Atmospheric Density (Optional)

Uninhabitable Worlds

1d10 Roll	Density	Approximate Earth Standard Density	Example
1	Very Tenuous	0.00000001	Earth's Moon
2	Tenuous	0.000001	Mercury
3	Very Thin	.01	Mars
4 - 5	Thin	.3	Mt. Everest
6 - 7	Medium	1	Earth Standard, Sea Level
8	Thick	3	
9	Dense	10	
10	Very Dense	90 +	Venus

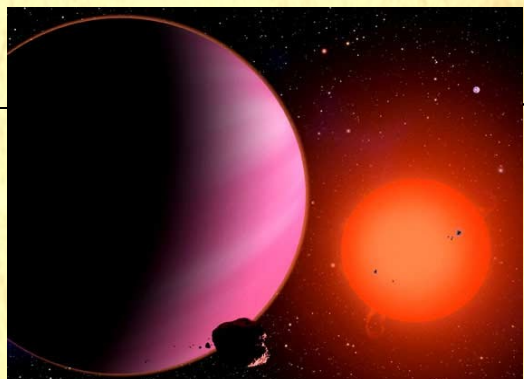
Modifiers: . Size is Planetary Diameter / 1000

Size	Modifier	Size	Modifier	Size	Modifier
Under 3	-8	10	0	18	+5
3	-7	11	+1	19	+5
4	-6	12	+2	20	+6
5	-5	13	+2	21	+6
6	-4	14	+3	22	+7
7	-3	15	+3	23	+7
8	-2	16	+4	24	+8
9	-1	17	+5	25 +	+8

3c. Determine Atmospheric Density for Oxygen-Nitrogen Worlds

Terrestrial habitable worlds only

1d10	Density	Approximate Earth Standard Density	Example
1 - 2	Thin	.5	Mountain Top
3 - 8	Earth Standard	1	Earth Standard, Sea Level
9 - 10	Thick	1.5	



4. Determine Hydrosphere, Cryosphere, Volcanism and Tectonic Plate Activity

Treat results above 100 as 100 and below 0 as 0.

Inner System worlds will have Hydrosphere and Cryosphere ratings of 0.

Gas Giants will have 0 in each of these categories.

Description	Hydrosphere % Biozone	Cryosphere % Biozone	Cryosphere % Outer System	Note	Volcanism	Tectonic Plate Activity
Proto planet	0	0	0	Surface too hot	100	100
Geoactive	1d10 x10	1d10 x10	1d10 x10		1d10 +5 x10 No higher than 80	1d10 +5 x10 No higher than 90
Mesoplanet	0	0	1d10 x10	Inner zone planets may have small amounts of Water Ice in shadows and craters	1d10 -2	0
Small Terrestrial	0	1d10 / 2 x10	1d10 x10		1d10 -6 x10	1d10 -6 x10
Terrestrial, Hostile	0	0	1d10 x 10		1d10 -6 x10	1d10 -6 x10
Terrestrial, Desert	2d20 -2	1d10 -1 x10	na		1d10 -6 x10	1d10 -6 x10
Terrestrial, Glaciated	1d10 x10	1d10 +7 x10	na		1d10 -6 x10	1d10 -6 x10
Terrestrial, Marginal	1d10 -6 x10	1d10 -1 x10	na		1d10 -6 x10	1d10 -6 x10
Terrestrial, Oceanic	1d10 +7 x10	1d10 x10	na		1d10 -6 x10	1d10 -6 x10
Terrestrial, Paradise	1d10 x10 No higher than 80. No lower than 20	1d10 x10 No higher than 80. No lower than 20	na		1d10 -6 x10	1d10 -6 x10
Terrestrial, Reducing	0	0	na	Atmospheres and temperatures may not allow for oceans or ice.	1d10 -4 x10	1d10 -6 x10
Terrestrial, Ultra Hostile	?	?	?	Atmospheres and temperatures may not allow for oceans or ice.	1d10 -5 x10	1d10 -5 x10
Super Terrestrial	1d10 x10	1d10 x10	1d10 +5 x10		1d10 -4 x10	1d10 -6 x10
Dirty Snowball	na	na	1d10 +3 x10		1d10 -7 x10	1d10 -7 x10
Ice World	na	na	1d10 +7 x10		1d10 -7 x10	1d10 -8 x10
Chthonian	0	0	0	Some small amounts of ice and dust may be present, collected by gravity of the planet	0	0

Worlds in blue are capable of earth-like life and inhabitable by humans.

An Explanation of Terms Used

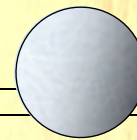
Hydrosphere : The percentage of a worlds surface that is covered by water in the form of oceans, lakes, swamps, etc. The higher this number the wetter the world. Optionally, on non-habitable, non-oxygen nitrogen worlds with exotic atmospheres this will reflect the atmospheric mix. These worlds could have seas of water, liquid hydrocarbons, liquid hydrochloric acid, etc.

Cryosphere : The percentage of a worlds surface that is covered by Ice. The higher this number the colder the world. Optionally, on non-habitable, non-oxygen nitrogen worlds with exotic oceans this will reflect the hydrosphere mix. Iceball and dirty snowball type worlds will be completely covered by water ice, frozen carbon dioxide, frozen methane, or a mix of these ices. Other worlds could have ice caps and glaciers of other chemical compounds, frozen hydrocarbons such as ethane and propane, etc. In this and the above case a little time studying

the planets and moons in our own solar system and various chemicals particularly those abundant in nature and their freezing and melting points can go a long way.

Volcanism : This is used as a relative indicator of volcanic activity on a world. A world with a low volcanism ratio would have few and infrequent volcanic activity while a higher ratio would indicate more frequent and violent eruptions. For comparison, Earth would currently rate a 5, Mars a 2, and Io an 8.

Tectonic Activity : This is used as a relative indicator of tectonic plate movement on a world and thus the frequency of planetquakes. Young worlds will typically have high tectonic activity and volcanism ratios with the ratios decreasing as the crust cools and thickens. For comparison, Earth would currently rate a 4, Mars a 1, and Venus a suspected 7.



5. Determine Land Area Percentage

$100 - (\text{Hydrosphere } \% + \text{Cryosphere } \%) = \text{Land Area}$

6. Determine Relative Humidity Percentage

Habitable worlds only (H, M, O, P)

$(1d10 + \text{Hydrosphere }) / 2 \times 10 = \text{Relative Humidity } \%$

7. Determine Hours in Planetary Day

$3d10 + (\text{size of satellites } / 1000)$

8. Determine Planetary Mean Temperatures

Habitable worlds only

$100 - (\text{Cryosphere } \times 10) = \text{Mean Temperature in degrees F.}$

Mean Temperature +20 = Mean High Temp.
Mean Temperature -20 = Mean low Temp.

9. Determine General Climate.

Habitable worlds only

Consider things like Amount of Cryosphere, Humidity, Hydrosphere. These are suggestions, you can be creative. Below are some suggestions..

Cryosphere	Hydrosphere	Humidity	Possible Climate
Low	Low	Low	Hot Desert
High	Low	Low	Cold Desert
Low	Moderate +	High	Tropical
Moderate	Moderate	Moderate	Temperate
Low	Moderate	Moderate	Warm Temperate
High	Moderate	Moderate	Cool Temperate
High	Moderate	Moderate	Arctic
Low	Moderate	Moderate	Savannah
Low	High	High	Jungle
Moderate	High	High	Cool Rainforests



10. Optional: Determine Planetary Mineral Survey. Non Gas Giants only

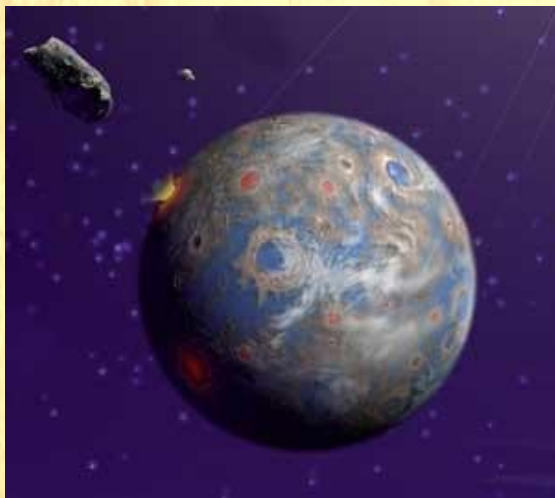
This amount reflects the general abundance of these on the world in question.
Roll 1d10 for each Consult modifiers. Less than 0 equals 0. Greater than 9 equals 9. Record on Planetary Data Sheet.

Planetary Mineral Survey	Roll	Modifiers
Minerals	1d10 +3	Ice world -4
Common Metals	1d10 +1	Ice world -6, Dirty Snowball -4
Rare Metals	1d10 -2	Ice world -8, Dirty Snowball -6
Industrial Crystals	1d10	Ice world -5, Dirty Snowball -3
Gemstones	1d10 -4	Ice world -4, Dirty Snowball -2
Radioactives	1d10 -4	Ice world -3

The above numbers multiplied by 10 represent the percentage chances of locating minerals and metals on a planet. A world with an 8 rating in common metals would have an 80% chance of a survey finding a vein of commercially valuable metals. Such a planet would qualify as a potentially very rich mining world, particularly if the other ratings were also good.

When used in a casual survey by the players the rating x10 should be used as a straight roll. When actively being searched for in order to pinpoint the vein or source the rating x10 should be added as a modifier to the relevant skill being used.

Asteroid fields and belts should also have these ratings, in which case it applies to the entire belt. Thankfully you don't have to roll for each individual asteroid unless you want to have a special case asteroid or two.



Industrial minerals are geological materials which are mined for their commercial value. They are used in their natural state or after beneficiation either as raw materials or as additives in a wide range of applications. Typical examples of industrial rocks and minerals are limestone, clays, sand, gravel, diatomite, kaolin, bentonite, silica, barite, gypsum, and talc.

Common Metals are basic metals used in industry and mined for their industrial value. Examples are nickel, copper, iron, lead, cobalt and others.

Rare Metals The best-known rare metals are the coinage metals gold and silver. While both have industrial uses, they are better known for their uses in art, jewelry and coinage. Other precious metals include the platinum group metals ruthenium, rhodium, palladium, osmium, iridium, and platinum.

Industrial Crystals are natural or synthetic crystals such as Silicon, Aluminum Oxide, Polycrystalline Ceramic Substrates and others valued for their use as semiconductors, optical crystals, laser crystals, and many other uses.

Gemstones are minerals or crystals valued not for their industrial use, but for their beauty or rarity. Examples are Diamond, Ruby, Amethyst, Jasper, Obsidian and others.

Radioactives are mined for their value in industry, medicine, as fuel or in weapons. For the most part, minerals that contain potassium (K), uranium (U), and thorium (Th) are radioactive. Other examples are: Osmium, Samarium, Tellurium, and Vanadium.

Planetary Descriptions



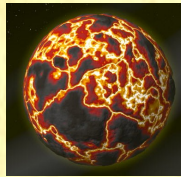
Asteroid Belt:

This orbit contains very small rocky or metallic objects smaller than a mesoplanet.



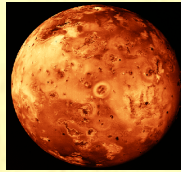
Protoplanet:

A world newly formed from the dust disk around young stars. Very hot world. Partially to completely molten surface. A world like this could exist in an older system, formed from the debris of an earlier planetary cataclysm.



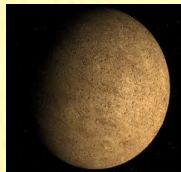
Geo-Active:

Often a young planet just emerging from its proto-planet stage and quite active geologically. The Planet's intense internal heat could also be from a highly radioactive core or extreme tidal forces.



Mesoplanet:

Also known as dwarf planets. Small rocky or icy bodies such as The Moon, Pluto or Ceres.



Small Terrestrial:

A small rocky world, perhaps with a small metallic core, larger than a mesoplanet. May have a thin to tenuous atmosphere.



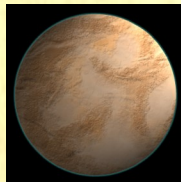
Terrestrial, Hostile:

A larger rocky world, often with a metallic core. Unfit for life as we know it due to any number of reasons such as lack of, or poisonous atmosphere, radiation, etc. Many Dead Worlds fall in this category.



Terrestrial, Desert:

A world capable of supporting life. Conditions over all are arid. Primary terrain is hot or cold desert although conditions may be better toward the poles.



Terrestrial, Glaciated:

A world capable of supporting life trapped in an ice age. Conditions over all are cold. Primary terrain is ice or permafrost. May be warmer near the equator.



Terrestrial, Marginal:

A world barely capable of supporting life. Often found with thin atmospheres and little water. Primary terrain is often hot or frozen desert. May support primitive eco-systems.



Terrestrial, Oceanic:

A world capable of supporting life. The surface of this world is covered with water, perhaps with some scattered islands.



Terrestrial, Paradise:

An earthlike world capable of supporting life. Numerous biomes support a profound assortment of flora and animal life.



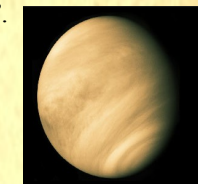
Terrestrial, Reducing:

A world not capable of supporting life as we know it. Chlorine, Fluorine, and other reactive gasses make up a majority of the hydrosphere. While lethal to life on earth, these gasses, like oxygen, could support exotic forms of life.



Terrestrial, Ultra Hostile:

Sometimes called "Demon worlds". Like Terrestrial Hostile, but much more hellish. Unfit for life as we know it due to any number of reasons. Often found with dense atmospheres of smothering, poisonous gasses, extreme pressures and temperatures.



Dirty Snowball:

A frozen world found at the outer edge of a star system made up of rock and ices of water and carbon dioxide. Unfit for life as we know it.

**Ice world:**

A frozen world found at the outer edge of a star system made of ices of water and carbon dioxide. Tidal forces or heat from a small rocky core may heat the ice below the miles deep icy surface resulting in great sub-surface oceans. These oceans could possibly be teeming with life that has evolved in conditions much like our deep seas.

**Chthonian:**

Planet resulting from the stripping away of a gas giant's atmosphere often by proximity to a star. Entire planet may be the remnants of a metallic core. In some cases this may have been a carbon core under extreme pressures, Imagine, a diamond planet!

**Exotic:**

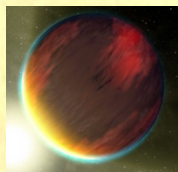
A world that does not fit into any other category. . Worlds of pure iron, or solid carbon perhaps found around massive stars. Planets composed of pure water or heavy, dense gasses such as carbon monoxide. Other possibilities include exotic geological structures or atmospheres. Electrically charged worlds with extreme magnetic fields, etc.

**Gas Giants:**

A large planet, sometimes called a Jovian world, that is primarily composed of Hydrogen gas, with various amounts of other gases such as helium and methane.

**Hot Gas Giants:**

Gas giants found within the inner system orbiting close to their parent star. Hot Gas Giants are thought to form at a distance from the star in the outer system, where the planet can form from rock, ice and gases. The planets then migrate inwards to the sun where they eventually form a stable orbit. The migration typically happens early in the formation of



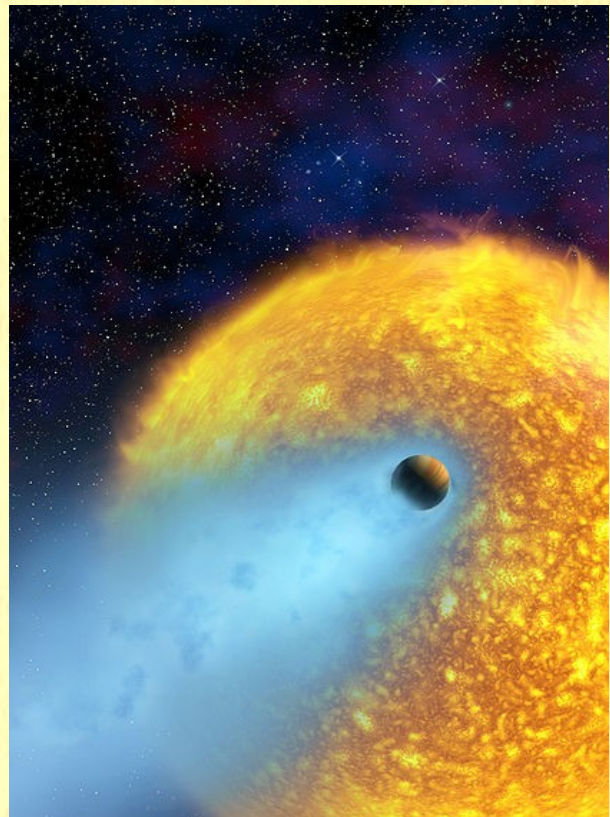
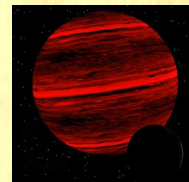
the star system.

The atmospheres of hot gas giants may contain high amounts of carbon monoxide, alkali metals and silicate clouds.

After some time hot gas giants may get their atmospheres and outer layers stripped away by the solar winds. Their remaining cores may become chthonian planets. Loss of the outermost layers depends on the size and the material of the planet and the distance from the star. In a typical system a gas giant orbiting 0.02 AU around its parent star loses 5-7% of its mass during its lifetime, but orbiting closer than 0.015 AU can mean evaporation of the whole planet except for its core.

Brown Dwarf:

sub-stellar objects in which their mass is below that necessary to maintain hydrogen-burning nuclear fusion reactions in their cores, as do stars on the main sequence, but which have fully convective surfaces and interiors, with no chemical differentiation by depth. Brown dwarfs occupy the mass range between that of large gas giant planets and the lowest mass stars; this upper limit is between 75 and 80 Jupiter masses



Imperium World Classification



Optional. Determine Imperium Classification

Use these for inhabited worlds within the Imperium. These descriptions may help you in fleshing out a planet

1. Determine World Classification

1 d 100	Imperium World Class	1 d 100	Imperium World Class
1 - 20	Agri-World	56 - 60	Feral World
21 - 40	Civilized World	61 - 66	Feudal World
41 - 45	Developing World	67 - 77	Forge World
46 - 50	Dead World	78 - 96	Hive World
51 - 55	Death World	97	Quarantined World
56 - 60	Feral World	98 - 100	Shrine World

Aside from planet type, the Adeptus Terra also classifies a world by its primary use for purposes of collecting tithes. These terms apply, with a couple of exceptions, to inhabited Imperial worlds.

Agri-World :

An Agri-world is one devoted to food production. The majority of its surface is given over to producing food for other worlds reliant on such imports - the food itself forms part of the planet's required tithe. Governors of such planets are required by the Adeptus Terra to protect the harvest and meet the quotas placed on them. Worlds with 850 parts per 1000 of the planet's surface covered with crop cultivation, hydroponics, animal fodder or animal husbandry are classed as Agri-Worlds. The population usually ranges from between 15,000 to 1,000,000 - which is widely spread across the planet.

Civilized World:

Of all the types of settlement in the Imperium, civilized worlds are the most common (although the term "civilized" here refers to their urban landscapes rather than to any pretence of social decorum.) On these self-

sufficient worlds, the main population centers tend to be large cities or other urban environments that are supported by the planet's own agricultural production. The state of development both technologically and socially varies, but is most commonly around the current Imperial norm. Most adjuncts of the Imperial state will normally have a presence on the planet. By the classification guidelines, a civilized world has a population from 15,000,000 to 10,000,000,000 and pays tithes between *Solutio Extremis* and *Exactis Tertius*.

Developing Worlds:

These worlds are split into geographical areas with widely varying levels of advancement and culture. Depending on the prevailing governments, these might be countries, states, power blocks or tribal homelands. It may be the case that higher levels of technology and wealth are concentrated around original colonization sites. Other planets might exhibit gross variations in culture due to environment, with areas weak in natural resources being similarly weak

in terms of military power, economic muscle and so on. Some planets preserve a great divide due to ancient tribal taboos, religious notions or plain old-fashioned habit. A great many worlds of the Imperium fit into this broad category, but no two are alike in the way they realize these divides.

Dead Worlds:

A Dead World is an airless and completely sterile world, totally devoid of an atmosphere, ecosystem and native natural life, and unsuitable for supporting any. With the possible exception of Imperial facilities such as Research Stations based on the planet, its population is otherwise nonexistent.

Most such planets have always been dead worlds; others were originally habitable worlds, reduced to dead world status through apocalyptic events, such as exterminatus, Tyranid consumption and destructive internecine war.

Death World:

A death world is a planet in which the native flora and fauna has evolved into naturally aggressive and dangerous forms. These eco-systems are finely balanced between continual destruction and lightning-fast reproduction. Death worlds take many forms, ranging from jungle-covered hell-holes with carnivorous plants and animals to barren, volcanic wastelands racked by ion storms.

Humans can, and do, live on these worlds, but it is a never-ending struggle. On many death worlds it is as if the entire bio-mass of the planet were consciously motivated against human settlement - concentrating forces against intruders to destroy them. Death worlds with human settlements or colonies can have populations of 1,000 to 15,000,000.

Feral World:

These worlds are populated by tribal peoples largely living without the assistance of maintained technology. This may be due to a failed colonization project, religious preferences, cultural choice, environment or some other reason. They may be aware of the Imperium in some fashion but are unlikely to know much more than something about a large group of distant people living in the stars. These planets are frequently unsuitable for later colonization, either due to the circumstances which drove the natives feral or because the natives themselves actively resist new people settling on their lands. People of feral worlds can range widely in culture, from Grox-hunting tribes of ancestor worshippers to wild-eyed, post-apocalyptic road warriors, fighting endlessly amongst the toxic, sand-strewn ruins of their civilization.

Feudal World:

These planets are populated by folk who have lost access to all but the most basic of technologies. Farming, simple machines such as pulleys, windmills and the like are known, but propelled flight, automatic weaponry and even powered vehicles are likely to be rare or non-existent. These worlds are often said to be the most politically harmonious of all the planets of the Imperium, because their peoples know their place.

Forge World:

Much of a forge world is like an immense factory, with industrial complexes soaring into the sky and mine workings burrowing deep into the crust. Forge worlds build great numbers of complex machines, like tanks or spacecraft parts. They are ruled by the Adeptus Mechanicus, whose training and research facilities are located there, along with the grand cathedrals to their deity, the Omnissiah, in which the Archmagi of the Tech-Priests enact the grandest, most complex rituals to honor the Machine God. The Adeptus Mechanicus' fleets, its tech-guard armies and, most formidably of all, the Titan Legions, are also all based on forge worlds. The forge worlds are sovereign ground and the Adeptus Mechanicus is loath to allow anyone on their surface other than Tech-Priests and the legions of menials who serve them

Hive World:

There are thousands of Hive Worlds in the Imperium. Most consist of various enclosed Hive cities or Hive clusters surrounded by wasteland, jungle, ice, plains, etc. In the most extreme examples the Hive World has developed beyond the point of separate Hive clusters to where the planet's surface is completely urbanized with hundreds of stacked layers of arcologies, covering the entirety of the planet. Holy Terra is an example of this "city-planet".

Populations are enormous, and almost all food needs to be imported. A Hive World rendered temporarily inaccessible through Warp space will suffer a devastating famine within a very short space of time. . Billions of people can live crowded together in a single Hive-city.

In common with most other Imperial worlds, Hive World society has distinct classes, with a ruling class and a working class. Invariably the lower classes inhabit the lower and more decayed and polluted levels of the Hive.

The sheer numbers of workers in a Hive makes them hard to control. Gangs grow up and control sections, fighting among themselves and millions subsist on scraps. Further up power reaches the ancient lighting system, while even further up, air circulation systems clean the air for those rich enough to afford it. It is a hierarchical system, and a ruthless one, but given suf-

efficient forces to keep the populace down, it is a very efficient way of housing billions of people. If each person had a house on the ground, the entire planet would be overrun with living quarters and no room for production facilities.

Hive Worlds are important due to their output. They don't reach anywhere near the production of a Forge World, but the number of workers give out a huge quantity of materials. Hive Worlders, being just as brutal and savage as those on Feral Worlds also provide some of the best fighting material to the Imperium.

Quarantined Worlds:

The existence of these planets is rarely made obvious but there are many of them throughout the Imperium.

Travel to these worlds is often forbidden except for the most well-informed and heavily armed expeditions, and even then only with a very good reason. Death worlds, alien empires or planets where the creatures of the warp have broken through into realspace are all examples of quarantined worlds, as are planets wracked with plague. Some worlds are quarantined because no one can fathom the origins of what has been found there, be it mysterious artifacts or ancient cities—it is thought better to live in ignorance of what lies on such worlds than risk it becoming a threat.

Shrine Worlds :

Sometimes used in conjunction with another world classification, i.e.: Agri-World/Shrine World, these worlds are dominated by religion and acts of devotion. It may be that these places saw the birth of a famous saint or formed the battleground for a particularly important war. Often studded with temples and shrines, these worlds are frequently controlled by the Ecclesiarchy and may form training grounds for members of their Adepta

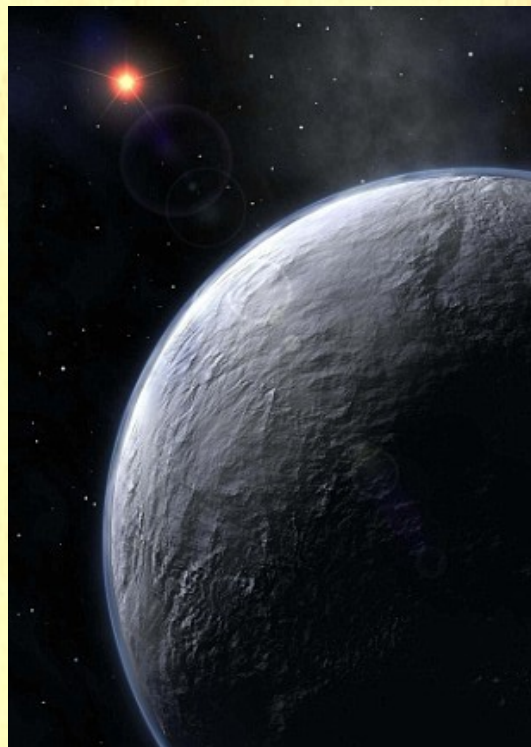
War Zones :

There are a great many worlds in the Imperium that can be classed as war zones. The Imperium is constantly at war and in those wars whole planets can burn. Massive campaigns can envelop dozens of systems and hundreds of worlds, many of which are utterly devastated by orbital bombardments and artillery in planet-spanning battles that last decades. Long-term war zones are hellish places where death comes quickly. The Imperium can field truly immense armies of millions of men, grinding their way across a devastated planet and reducing cities to rubble. Mercenaries flock to such places, hoping to leave soon after with their ships loaded with pay. Deserters and escaped prisoners form bands of pirates, preying on any ships

unable to defend themselves or roam the war-torn planets in feral packs stealing and killing. The Administratum sends colonists from overcrowded worlds to populate war-torn worlds after the fighting has ended but the wheels of the Imperium grind slowly and a world can lie devastated for centuries before any effort is made to resettle it. These places can be some of the most ghastly in the Imperium, with ravaged environments, cracked planetary crusts, burnt-out cities and plains covered in the bones of the fallen.

Xeno World:

Xeno worlds are non-human and non-Imperial worlds inhabited by alien races. Humanity is just one of many races in the galaxy, but none are so widely distributed or so numerous as humans. Most alien races occupy only a single world or a small group of worlds. The majority of aliens are comparatively primitive, peaceful or powerless, and of little interest to humanity. Only a few alien races are powerful, aggressive and possess technology which rivals that of the Imperium. Of these, the most common are the Orks, Eldar, Tyranids and Tau.



Planetary Class Index



Class	Subclass	Example	Avg. Diameter (1,000 km)	Core	Typical Atmosphere	System zone	Description
Empty Orbit				None	None	Any	No world, asteroid or other body present
Asteroid Belt			< 0.9	None	None	Any	Very small small rocky or metallic bodies occupy this orbit
Protoplanet			1 to 20	Molten	Negligible to thick Methane, Hydrocarbons	Any	Very hot world. Partially to completely molten surface. Often a very young and newly formed world found in newly forming star systems.
Geo-active			3 to 15	Rock	Hydrogen compounds, Sulfur compounds	Any	Geologically very active. Intense internal heat, perhaps from highly radioactive core or tidal forces.
Mesoplanet		Luna, Pluto	0.9 to 5	Rock, Ice	Negligible to thin Hydrogen, Helium	Any	Also known as dwarf planets. Small rocky or icy bodies.
Small Terrestrial		Mercury	5 to 9	Metallic, Rock	Negligible or thin	Any	Small rocky world or moon. Normally geologically inactive.
Terrestrial	Hostile		9 to 15	Metallic	None to hostile. Methane, Carbon dioxide.	Any	This world may or may not have once had life. Now, life as we know it is impossible due to any number of reasons
	Desert		9 to 15	Metallic, Rock	Oxygen, nitrogen, argon, trace gasses	Bio	Less than 10% hydrosphere. Extremely dry, little to no natural precipitation. Can be habitable.
	Glaciated		9 to 15	Metallic, Rock	Oxygen, nitrogen, Trace gasses	Bio	At least 80% cryosphere
	Marginal		9 to 15	Metallic, Rock	Carbon dioxide, oxygen, argon, nitrogen	Bio	Barely habitable. Hostile/Primitive ecosystem.
	Oceanic		9 to 15	Metallic, Rocky	Oxygen, nitrogen, Trace gasses	Bio	Greater than 90% hydrosphere.
	Paradise	Earth	9 to 15	Metallic	Oxygen, nitrogen, argon, trace gasses.	Bio	A diversity of biomes. Extensive plant and animal life often flourishes
	Reducing		9 to 15	Metallic, Rock	Chlorine, Fluorine, Other reactive gasses.	Inner, Bio	While lethal to life on earth, these gasses, like oxygen, could support exotic forms of life.
	Ultra Hostile	Venus	9 to 15	Metallic	Thick Carbon dioxide, sulfur compounds,	Inner, Bio	Sometimes called "Demon worlds". Extreme pressures and temperatures. World uninhabitable to terrestrial life.
Dirty Snowball		Titan	4 to 10	Rock	Negligible to thin	Outer	Mix of ice and rock.
Ice World			4 to 10	Ice, Liquid	Negligible to thin	Outer	Icy crust, perhaps liquid beneath. Possible life.

Class	Subclass	Example	Avg. Diameter (1,000 km)	Core	Typical Atmosphere	System zone	Description
Chthonian			4 to 15	Metallic	Tenuous to thin	Inner	Planet resulting from the stripping away of a gas giant's atmosphere often by proximity to a star. Entire planet may be metallic.
Small Gas giant		Neptune	32 to 100		Hydrogen, Helium with mix of other gasses.	Any	
Gas giant		Jupiter	100 to 200		Hydrogen, Helium with mix of other gasses.	Any	
Gas Supergiant			200 to 300+		Hydrogen, Helium with mix of other gasses.	Any	
Gas Ultragiant / Brown dwarf			200 to 300+		Hydrogen, Helium, lithium with mix of other gasses.	Any	
Exotic			Any	Any	Any	Any	World that does not fit into any other category. Exotic geological structures or atmosphere. Electrically charged worlds, pulsar worlds, etc.

Note: Any Gas Giant with a diameter of greater than 140 km is a candidate for a brown dwarf if dense enough. or 13 times the mass of Jupiter.

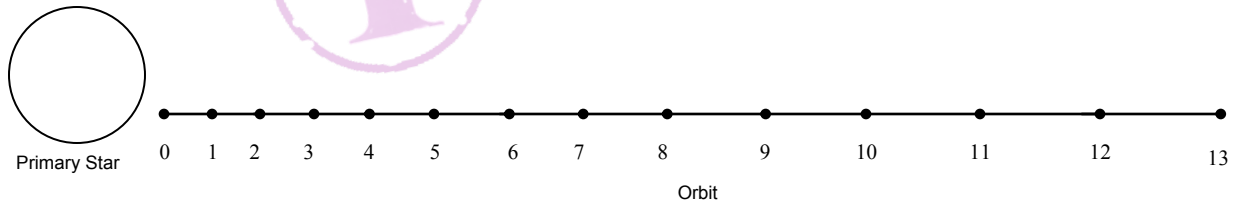


Star System Data Sheet

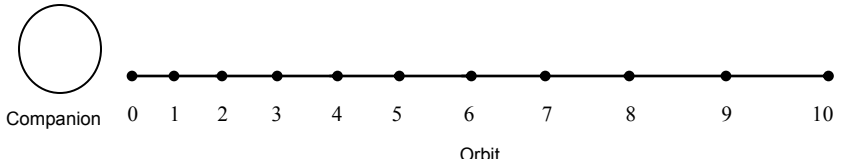
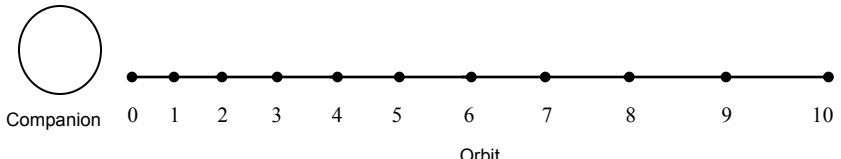


System Name System Location Page of

	Star Name	Class	Size	Star Type Solitary or Multiple	Biozone Orbits
Primary Star	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Companion	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Companion	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



Orbit	A.U.'s	Orbit	A.U.'s
0	0.2	7	10
1	0.4	8	19.6
2	0.7	9	38.8
3	1	10	77.2
4	1.6	11	154.0
5	2.8	12	307.6
6	5.2	13	614.8



Orbit		Planet Name	Class	Size
Planet	Sat			

Orbit		Planet Name	Class	Size
Planet	Sat			

Orbital Zone Diagram
Not to Scale

Stellar Data



Orbit		Planet Name	Class	Size
Planet	Sat			

Orbit		Planet Name	Class	Size
Planet	Sat			

Notes:

Planetary Data Sheet

Planet Name Class Orbit

Atmosphere Hydrosphere % Cryosphere %

Diameter km Gravity G Axial Tilt Volcanism Tectonic Activity

Land Mass % Hours in Local Day Avg. Mean Temp. Humidity %

Planetary Visual

Surface Area km²

General Climate Dominant life forms

Satellite Data

Number of Satellites Type

Mineral Survey

Minerals Common Metals Rare Metals Industrial Crystals Gemstones Radioactives

Notes / Items of Interest

Planetary Data Sheet

Planet Name Class Orbit

Atmosphere Hydrosphere % Cryosphere %

Diameter km Gravity G Axial Tilt Volcanism Tectonic Activity

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Surface Area km²

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Satellite Data

Number of Satellites Type

Mineral Survey

Minerals Common Metals Rare Metals Industrial Crystals Gemstones Radioactives

Notes / Items of Interest

Carpe Astarte Seize the Stars



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In the darkness that is the 41st millennium only the bravest of souls venture forth from the security of their home worlds to brave the depths of space. Some go into the void for the promise of riches or fame, still others go because of the human desire to explore new worlds.

What will they find?

Now you have the tools in your hands to create a nearly infinite number of unique star systems and planets. Game Masters should find a wealth of information among the tables and descriptions for developing as detailed a star system or planet as they may wish to and ideas for using the information in your game.

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