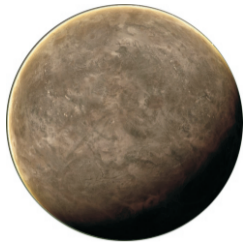


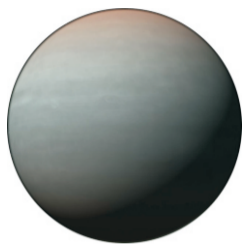
# PLANETARY INTERACTION



## Barren

Barren planets are archetypical "dead terrestrials": dry, rocky worlds with a minimal atmosphere and an unremarkable composition. They are commonly etched with flood channels, which are often broad enough to be visible from orbit; most such worlds have accumulated significant quantities of ice over their lifetimes, but cannot retain it on their surface. Generally surface liquid evaporate rapidly, contributing to the thin atmosphere, but occasionally it will seep back into the ground and refreeze, ready for another breakout in future when the local temperature rises.

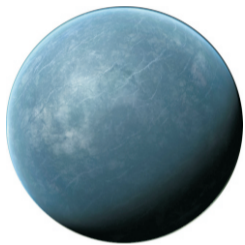
Carbon Compounds  
Micro Organisms  
Base Metals  
Aqueous Liquids  
Noble Metals



## Gas

Gas planets are characterized by a deep, opaque upper atmosphere, usually composed primarily of light elements such as hydrogen or helium. Simple chemicals can add a range of hues and shades in the visual spectrum, and the interaction between upwellings and rapidly circulating pressure bands result in a huge variety of visible surface structures. A similar level of diversity can be found beneath the cloud-tops: the inner composition of a given gas planet might belong to any one of a dozen broad groups, with no two planets entirely alike in this regard.

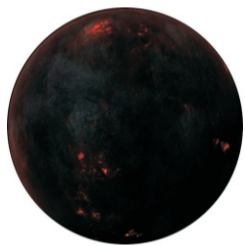
Base Metals  
Aqueous Liquids  
Ionic Solutions  
Noble Gas  
Reactive Gas



## Ice

The majority of icy planets went through a period of being barren terrestrials, before being surfaced with ice over the course of many millennia. The exact process for this varies from case to case, but the end result is both common and visually uniform - a bright, reflective planet scored by countless fractures and crevasses. A few icy planets are hypothesized to have been warmer, liquid-bearing planets in the past that have subsequently frozen, as a result of either stellar cooling or failed terraforming projects.

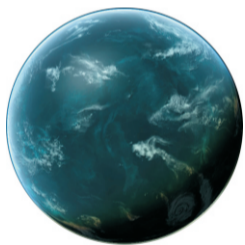
Heavy Metals  
Base Metals  
Aqueous Liquids  
Ionic Solutions  
Noble Metals



## Lava

So-called "lava planets" (properly "magmatic planets") fall into one of three groups: solar magmatics, which orbit sufficiently close to their star that the surface never cools enough to solidify; gravitational magmatics, which experience gravitational shifts sufficiently strong to regularly and significantly fracture cooling crusts; and magmatoids, which are for largely-unexplained reasons simply incapable of cooling and forming a persistent crust. All three types generally exhibit the same external phenomena - huge red-orange lava fields being a defining feature - but the latter two types are sometimes capable of briefly solidifying for a period measured in years or perhaps decades.

Heavy Metals  
Non-CS Crystals  
Felsic Magma  
Suspended Plasma  
Base Metals



## Oceanic

Oceanic worlds are a class of terrestrial world covered entirely by liquids, usually in the form of mundane water. While the liquid surface is exceptionally smooth, the ocean floor on most worlds of this type exhibits significant topographic variety. It is this subsurface irregularity which causes the formation of complex weather systems, which would otherwise revert to more uniform patterns.

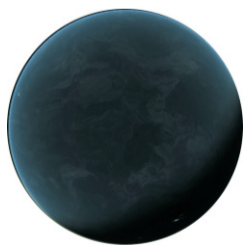
Carbon Compounds  
Micro Organisms  
Aqueous Liquids  
Planktic Colonies  
Complex Organisms



## Plasma

The aptly-named "plasma planets" have captured the imagination of countless artists and inspired innumerable works, yet the physics behind them are surprisingly mundane by cosmological standards. A rocky terrestrial with the right kind of atmosphere and magnetic field will, when bombarded with solar radiation, generate sprawling plasma storms as specific atmospheric elements are stripped of their electrons. Over time these storms will generally scorch the surface rock black, adding to the visual impact.

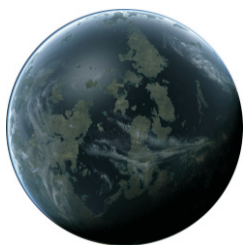
Heavy Metals  
Non-CS Crystals  
Base Metals  
Suspended Plasma  
Noble Metals



## Storm

Storm worlds are usually considered terrestrial planets, although to a casual eye they may appear more similar to gas planets, given their opaque, high-pressure atmospheres. Geomorphically, however, the distinctions are clear: compared to a gas world, the atmosphere of a storm world is usually considerably shallower, and generally composed primarily of more complex chemicals, while the majority of the planet's mass is a rocky terrestrial ball. Their name is derived from the continent-scale electrical storms that invariably flash through their upper atmospheres.

Aqueous Liquids  
Base Metals  
Suspended Plasma  
Ionic Solutions  
Noble Gas



## Temperate

Life-bearing worlds are often referred to as "temperate", as their mild temperatures are one of their defining features. Planets with existing, stable ecosystems are prime targets for colonization efforts as they are generally easier to make fully habitable; as a result, the majority of highly populated worlds are of this type. Indeed, it is not altogether uncommon for detailed surveys to reveal signs of previous settlements from various stages of New Eden's history.

Carbon Compounds  
Autotrophs  
Aqueous Liquids  
Micro Organisms  
Complex Organisms

# Base Industry Reactions

## SCHEMATICS

