

# Design Your Alien



**Air**  
Atmosphere

Biocasts  
Radiation  
Temperature

**Mars**

Type: Planet  
Size: 4,219,873 km (2,618,515 miles)  
Distance from Sun: 227,940,000 km (141,700,000 miles)  
Temperature: -125°C (-203°F) to 21°C (70°F)  
Atmosphere: Thin, mostly CO<sub>2</sub>  
Gravity: 3.71 m/s<sup>2</sup> (0.38 g)

**Special Characteristics**  
Most used in space flight (used to test equipment before launch), and Mars is the only planet in our solar system where the wind can blow sand and create sand dunes. It has the largest volcano in the solar system.

**Temperature**

-80.2°C  
Hotest Desert, America  
-55°C, 80°C  
Lut Desert, Iran  
70°C

**Gravity**

Illustration of a person sitting on a chair under a tree, and a bird flying in a circle.

**Water**

Illustration of Earth with water and a person.

**Food**

Sunlight  
Water  
Soil



**Breathe**



# Air

Atmosphere



**Temperature**



# Breathe



Loricifera

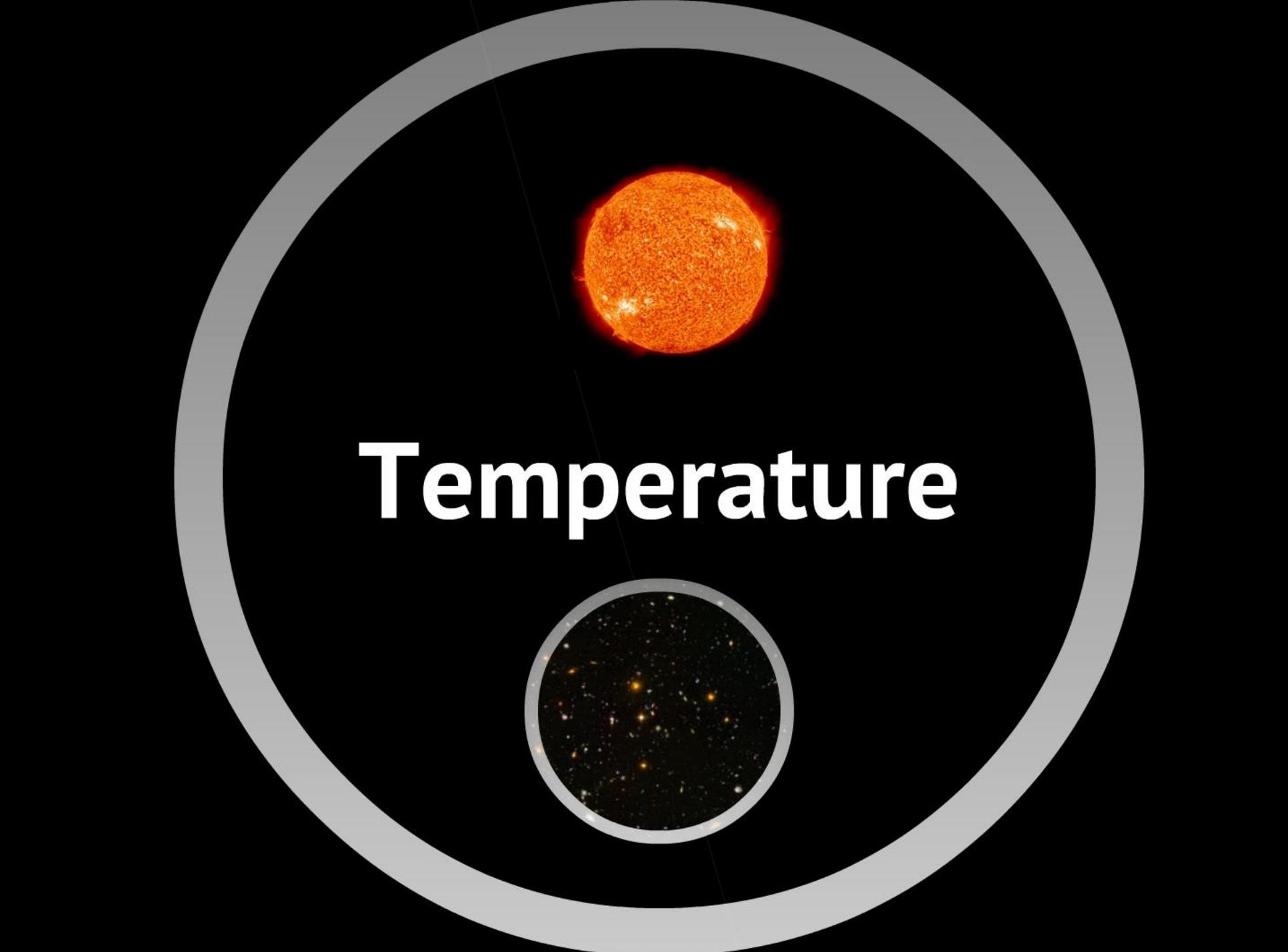


**Gamma Rays**

**X-Rays**

**Ultraviolet (UV)  
Rays**

**Protection**



# Temperature



**Volstok Station, Antarctica**



**Lut Desert, Iran**

# **Temperature**



**-153°C** **107°C**



**-89.2 °C**



**70°C**



# Water

# Habitable Zone





**Food**

A large, glowing orange sun with a textured surface, set against a dark background. The sun is the central focus, with a bright white glow around its edges. In the top-left corner, a small portion of the Earth's blue and white surface is visible. The word "Sunlight" is written across the center of the sun in a large, white, sans-serif font.

**Sunlight**



**Water**



**Soil**



# Samples

**Moon:**

**Apollo Missions**

**Luna Missions**

# Gravity







# Mars

**Type**

**Planet**

**Size**

**6794 km**

Just over half the size of Earth

**Distance from Sun**

**227,900,000 km**

In the Inner Solar System

**Temperature**

**Minimum**

**-107 °C**

**Maximum**

**-17.2 °C**

**Atmosphere**

**Thin**

Only 1% the thickness of Earth's

**Gravity**

**Weak**

Around 1/3 the strength of Earth's gravity. If you weighed 100kg on Earth, you'd only weigh 38kg on Mars!

**Special Characteristics**

Mars used to have liquid water flowing in rivers across its surface in rivers, just like Earth! The rivers probably ran across the now dry and barren landscape for thousands of millions of years!

# Design your Alien!

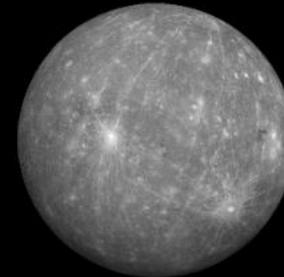


Jupiter

Io



Mercury



Titan

