

Name: \_\_\_\_\_

Period: \_\_\_\_\_

Date: \_\_\_\_\_

**SSEP - Planet Design**  
Astronomy



**Instructions:**

For each planet designed, the dimensions need to be specified and calculated, the compositions needs to be determined, the atmosphere (if any) needs to be determined, the surface terrain environment needs to be established (if any), internal activity assessment, satellites need to be specified (if any), and life probability (if any).

***Hint! – Stick close with planets of existing solar systems. This will help with accuracy!***

**Remember:**

- minimum of 5 planets per solar system
- no two planets are to be identical
- ALL key aspects below must be determined (the **BOLD** dimensions must be calculated!)
- only 1 planet may hold the key necessities and dimensions for life
- each must be named and must have a validation for that name given

**Planet Name:** \_\_\_\_\_

**Dimensions:**

Mass (kg)		Orbital Period		Internal Composition	
<b>Diameter (km)</b>		Axis Tilt		Atmospheric Composition	
Radius (km)		Avg. High Temp. (°C)		Surface Features (Land/Ice Formations)	
<b>Volume (km<sup>3</sup>)</b>		Avg. Low Temp. (°C)			
<b>Density (g/m<sup>3</sup>)</b>		Surface Pressure (bars)			
Gravity (m/s <sup>2</sup> )		Number of Satellites		Surface Environment (Description)	
Distance (AU)		Ring System? (Describe)			
Solar Day		Magnetic Field?			



**Rough Sketch:**  
*Color Included!*