

Name: _____

Period: _____ Date: _____

The Sun Exploration
Astronomy



First, let's Review:

1. What is an H-R (Hertzsprung – Russell) diagram and how does it relate to stars? Explain.

2. Explain the “main sequence” found in an H-R diagram and what it means.

3. What is the difference between a giant and a dwarf star? What is the difference between a red giant and a blue giant or a yellow dwarf and a white dwarf? Explain.

4. What are the spectral types used to classify stars and what do they show? What are the ranges used and where do the Sun and Sirius fall in that classification. Explain.

Data:

Sun Compared to Earth

Characteristic	Sun's Actual	Earth Units	Ratio of Sun: Earth
Radius			
Volume			
Mass			
Average Density			
Surface Gravity			
Escape Velocity			
Sidereal Rotation Period			

Sun's Star Characteristics

Absolute Magnitude	
Luminosity	
Spectral Type	
Age	
Central Pressure	
Central Density	
Central Temperature	
Surface Temperature	
Composition Velocity <i>relative to nearby stars</i>	