

NAME _____ CLASS _____ DATE _____



Experience Review

1. Which of the following characteristics of a star do astronomers use the light-year to measure?
 - a. distance to the star from Earth
 - b. time it takes the star's energy to reach Earth
 - c. temperature of the star's surface
 - d. energy emitted by the star's surface
2. **THEME Patterns** Circle or highlight the word or phrase that best completes each sentence.

Stars have a life cycle that begins with a cloud of gas and dust called a (**protostar / nebula**). If the cloud has enough mass, it becomes a (**protostar / nebula**). If the star that forms next is very massive, it becomes a red (**dwarf / supergiant**) when it begins to run out of fuel. After it dies, it can become a neutron star or a (**black hole / white dwarf**).
3. **SEP Analyze Data** The data table shows data for two newly identified stars. Using the H-R diagram, classify each star and compare each to our sun.

Star	Luminosity (Sun = 1)	Surface Temperature (K)
A	1	6,000
B	10^{-2}	14,000

The Universe: Stars

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