

M O D E R N E A R T H S C I E N C E

Pg. 851

Transparency Worksheet 46
The Hertzsprung-Russell Diagram

Chapter
30.2

1. What determines a star's color?

2. Is the size of a star the only factor that determines the star's absolute magnitude? Explain.

3. What is the approximate surface temperature of the sun?

4. Explain why white dwarfs have such low absolute magnitudes.

5. What type of star forms the majority of visible stars in the sky?

Stellar Evolution – Starbirth to Stardeath

The evolution of a star with time is determined almost entirely by its *initial mass*. The major phases of stellar evolution are summed up in the following flowchart:

