

Name _____ **H-R Diagram**



H-R Diagram

A Hertzsprung-Russell diagram plots the color and absolute magnitude of stars on a graph. The color indicates the temperature on the surface of each star. The absolute magnitude indicates the luminosity (true brightness) of each star. The absolute magnitude and the luminosity of a star have an inverse relationship: The greater the absolute magnitude, the lesser the luminosity. The absolute magnitude of the most luminous stars is a negative number.

DIRECTIONS: Make a point for each star on the H-R diagram below.

STAR	COLOR	ABSOLUTE MAGNITUDE	SYMBOL FOR GRAPH
Deneb	blue-white	-7	□
Betelgeuse	red	-6	×
Capella	yellow-white	-1	▲
Sun	yellow-white	5	●
Epsilon Eridani	orange	6	▶

