

Tuesday, November 6, 2018

Your Learning Goal:

After students explore stars by creating a class HR Diagram, they will identify and understand the life cycle and characteristics of stars.

Table of Contents: Star Bright- 17 R

Catalyst (17 L):

Name 3 specific things in your life that would change if there were no more sun.



Homework:

Atomic Basics

DUE Thursday/Friday



Agenda:

1. Catalyst
2. HR Diagram
3. LEAF

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10/8/18	Our Expanding Universe	9 L + R
10/8/18	The Universe: Beyond the Big Bang	10 L + R
10/11/18	Going Subatomic	11 L + R
10/15/18	Changing Phases	12 L + R
10/16/18	Conservation of Mass	13 L + R
10/19/18	It's Elementary	14 L + R
10/23/18	We're Changing	15 L + R
10/25/18	Atomic Jeopardy	16 L + R
11/6/18	Star Bright	17 L + R

11/06/18

Catalyst:

Name 3 specific things in your life that would change if there were no more sun.

17L

11/06/18

Star Bright

17R

STORY TIME



HR Diagram

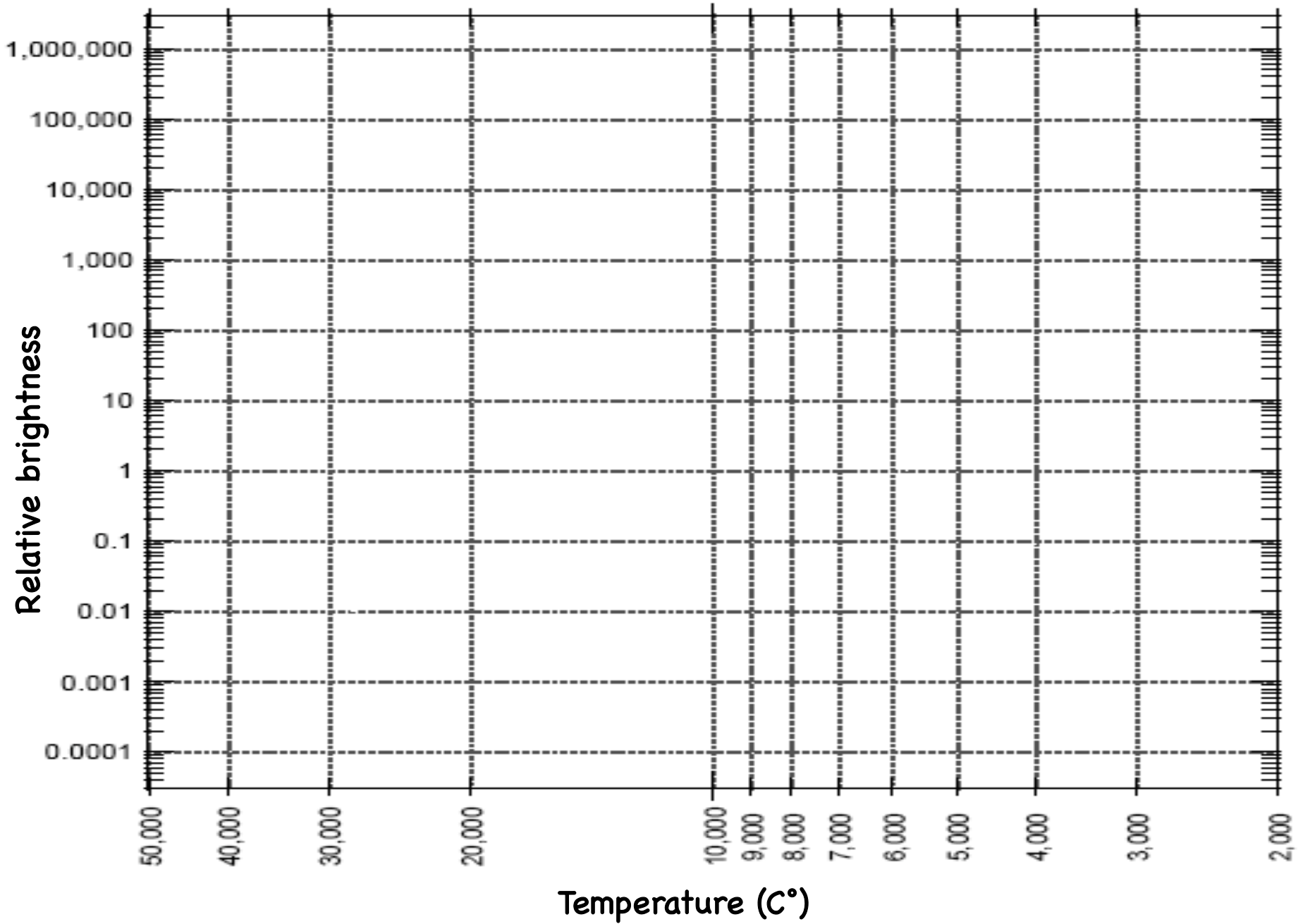
- Relative brightness (luminosity) = how much light an object gives off (compared to the sun)
 - 1 = luminosity of the sun
 - >1 = brighter than the sun
 - <1 = dimmer than the sun
- Temperature = the degree of hotness or coldness
 - Units: Celsius (°C), Fahrenheit (°F), and Kelvin (K)

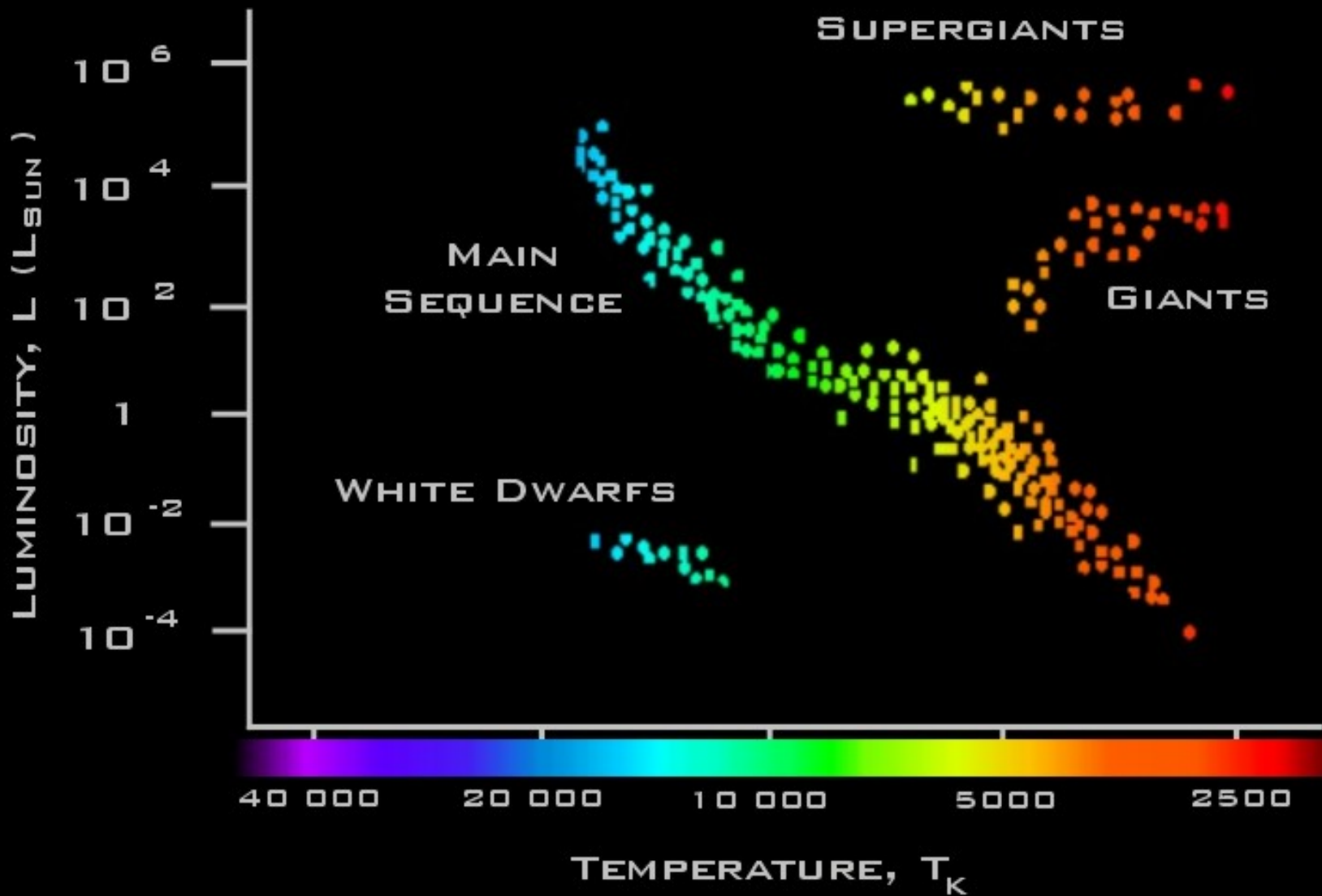
17R

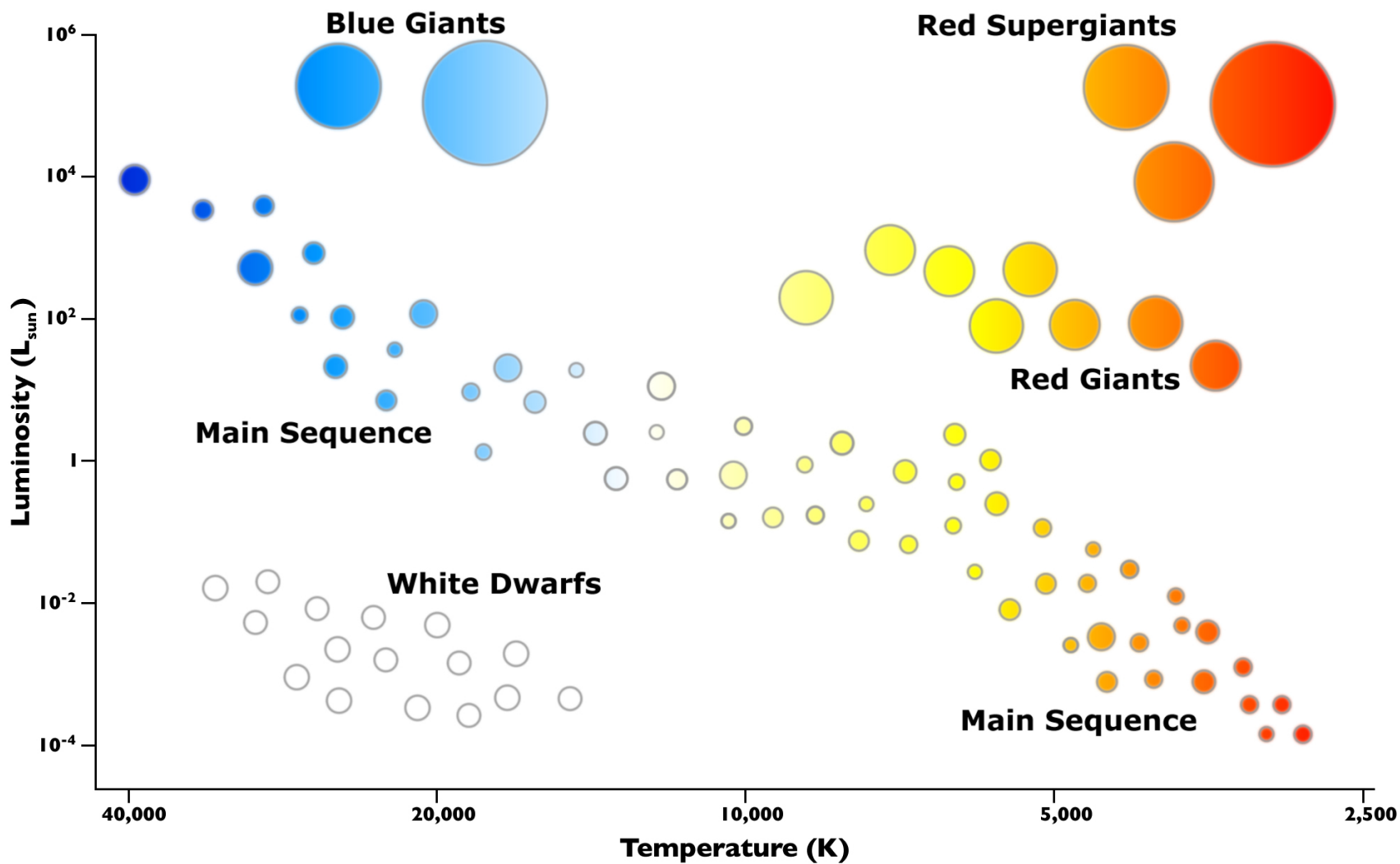
Star Day!

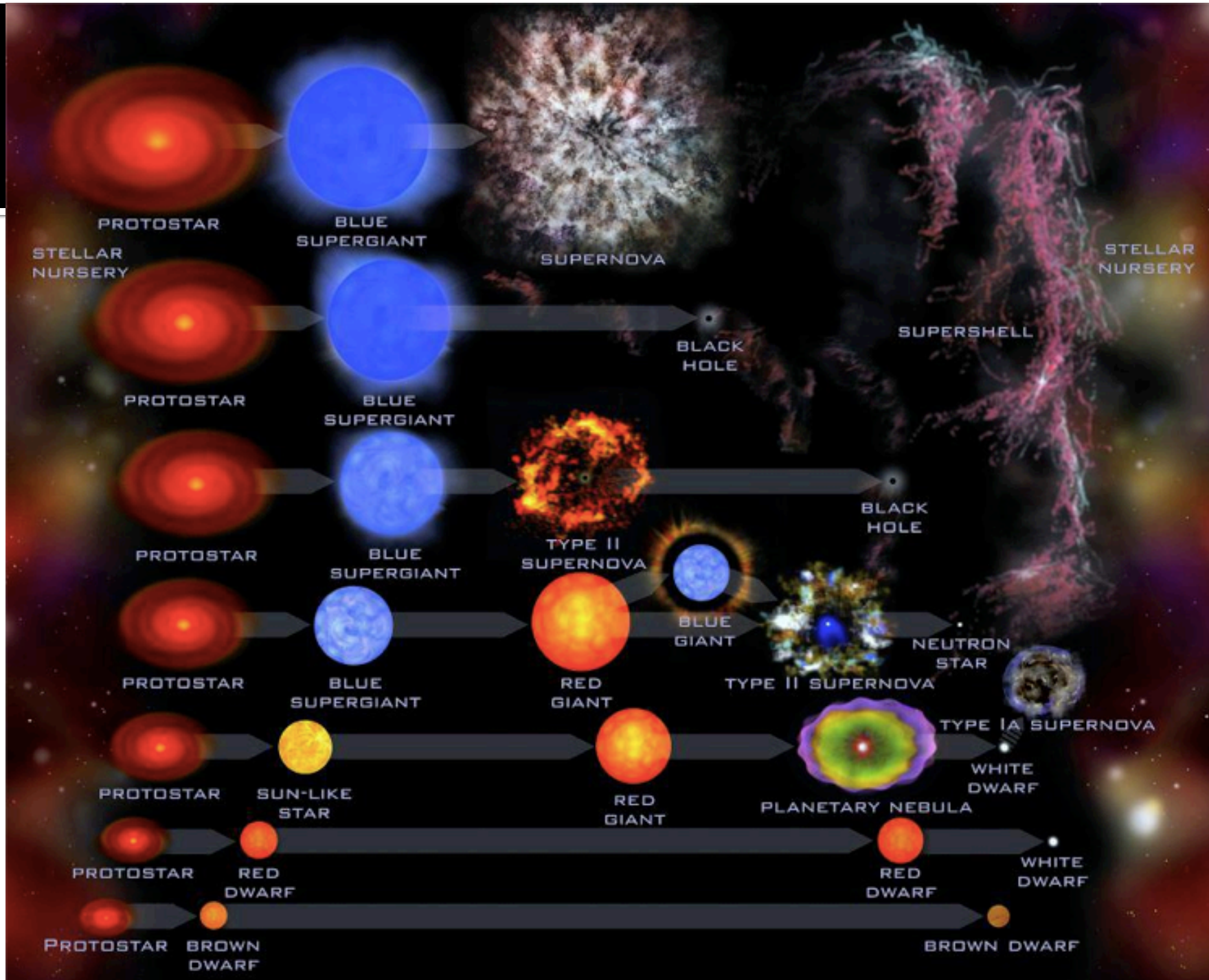
- Using the “**Star Chart**,” plot your stars on your graph paper by drawing and labeling a dot. (Each person does 4 or 5 stars.)
- Find and **color** your star the appropriate color on the Start Paper.
- Cut out your star.
- When you are finished, glue your star on the graph paper. (**The center of your star will be where the dot is.**)

Relative Brightness vs. Temperature Graph









Reflection

Explain what type of star our Sun is compared to other stars.

relative brightness = 1
temperature = 5,800°C

Use the *evidence* from the HR Diagram to *support* your answer.

17 L

11/06/18

Catalyst:

Name 3 specific things in your life that would change if there were no more sun.

Reflection:

*Explain what type of star is our Sun. (Use the *evidence* from the HR Diagram to support your answer.)*

17L

11/06/18

Star Bright

17R

Sun

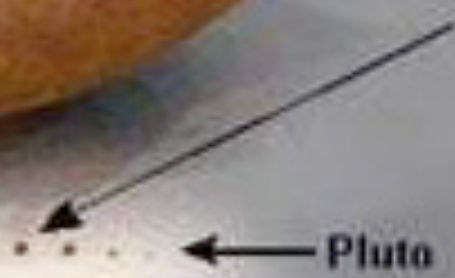


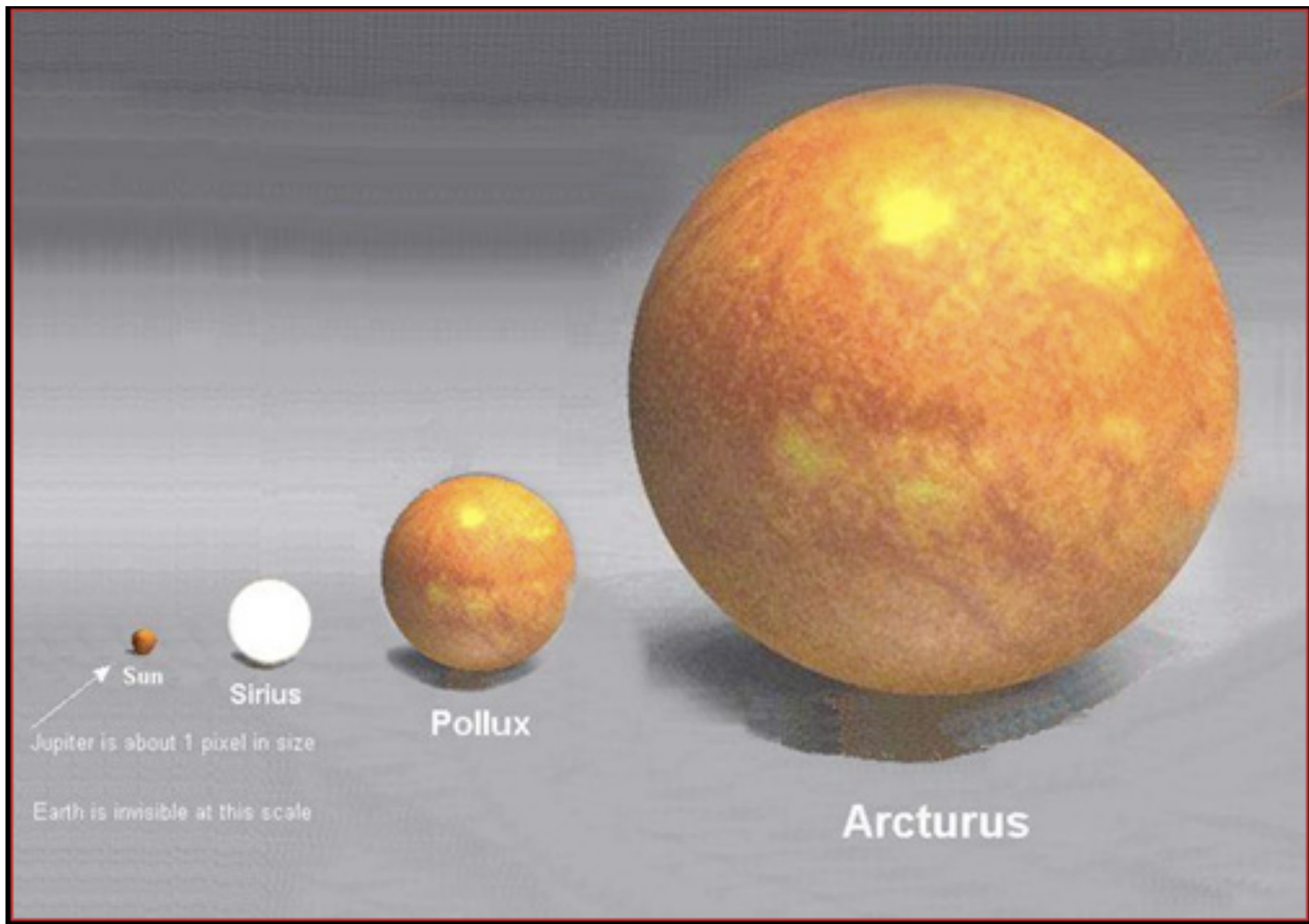
Jupiter



Earth

Pluto



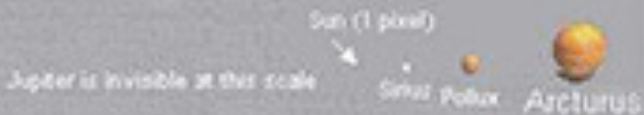




Antares



Betelgeuse



Rigel



Aldebaran