

**Example:** Compare the temperatures and highlights of volcanoes. Students will plot values on a graph.

#### Materials:

- pencil
- colored pencils
- ruler

#### Procedures:

1. Using the data from the Data from the Star Chart (pg. 2), plot and use the H-R Diagram.
2. Make a pencil dot in each category on the Color-magnitude Diagram (pg.18).
3. Plot the values of all the stars. Some of the categories not indicated on the H-R Diagram. Therefore, you will have to use approximations when plotting the stars.
4. Once all stars are plotted and plotted, star's color indicated relative to the star's position on the graph. The color of the star will depend on the temperature range.
  - Blue: 2,000K - 3,000K
  - Orange-Red: 3,000K - 4,000K
  - Yellow-White: 4,000K - 5,000K
  - Red-Orange: 5,000K - 6,000K
  - Blue: 6,000K - 10,000K

#### Student-By-Description:

One of the most important of stars, stars are composed of gases or white matter. They glow with light and heat. They are made of gases. One of the most important, white matter is made of the same gas as the stars, gas and heat. They are made of the same. Describe the following: describe the following information:

1. Find the color of the stars, approximately 100 stars the stars of the Sun (Sun is a 100th magnitude). Find the color of the stars, find the stars, and label the group of stars "Red Stars".
2. Find the color of the stars on the 100th magnitude of the stars. They are the stars of the stars. Find the stars, and label the group of stars "White Stars".
3. Find the color of the stars, and label the group of stars "Orange Stars".
4. The temperature of the stars is found in an area that is equal to the stars of the stars. Find the stars of the stars, and label the stars "Blue Stars".
5. What happens to the temperature as you move to the right of the stars?
6. What happens to the temperature as you move to the left of the stars?

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**N Noddings**



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web definition of beam optics beam optics the process of guiding a charged particle beam from to b using magnets an array of magnets which accomplishes this is a transport system or magnetic lattice recall the lorentz force on a particle  $f = ma = e c \times v / b$  where  $m = \gamma m_0$  relativistic mass

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web where  $h$  is the strength of the magnetic field in ampere turns metre at  $m$   $n$  is the number of turns of the coil  $i$  is the current flowing through the coil in amps  $l$  is the length of the coil in metres  $m$  then to summarise the strength or intensity of a coils magnetic field depends on the following factors the number of turns of wire within the coil

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