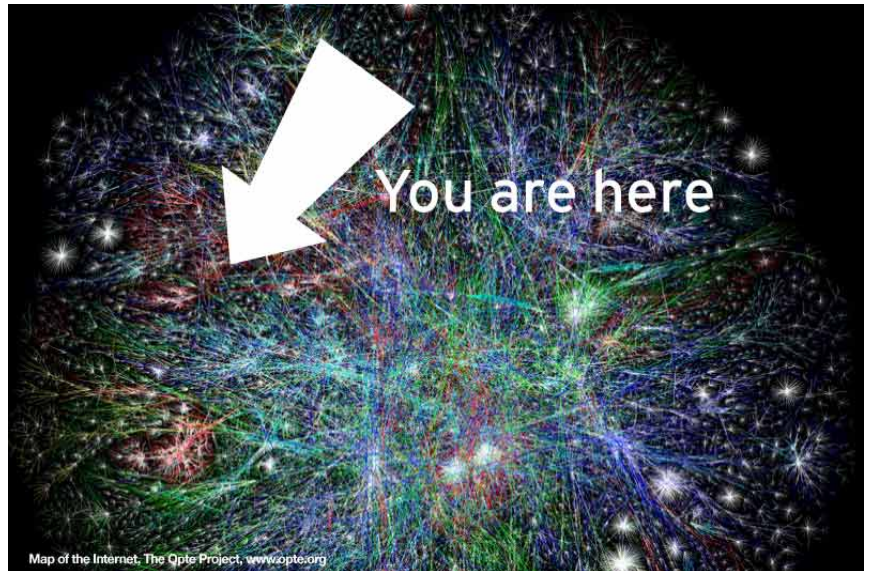


Astronomy Webquest: Exploring the Universe



You will be completing this webquest in your journals. **Answers must be in complete sentences with justified answers.** Questions will be sectioned in your journals according to the BOLDDED titles. The following words MUST be highlighted (with a highlighter) in your journal when answering those questions:

- Stars
- Galaxy
- Spiral
- Elliptical
- Irregular
- Nebula
- Black Hole
- H-R Diagram
- Supernova
- Red Giant
- White Dwarf
- Luminosity
- Pulsar

Components of the Universe:

<http://prezi.com/bauqv-luxrcg/components-of-the-universe/>

1. Define the following terms in your words:
 - a. Universe
 - b. Galaxy
 - c. Stars
 - d. Nebula
2. Draw in color and label the three types of galaxies.
3. What are the different sections of the H-R diagram?
4. Where is the Sun located on the H-R Diagram? Be sure to include color, section, size, temperature (low, medium, high), and luminosity (low, medium, high)
5. Draw and label the life cycles of stars

The Life Cycle of a Star:

<http://www.telescope.org/pparc/res8.html>

6. Define the following terms in your own words:
 - a. Supernova
 - b. Black Hole
 - c. Globular Cluster
7. Compare and contrast red giants and white dwarfs. No you cannot make a T Chart or bullet points. Seriously? Complete sentences and justified answers dude.
8. What is the relationship between globular clusters and the Milky Way

Stars :

(The link is the general topic, you will have to click on the sub-links to find the information)

<http://www.enchantedlearning.com/subjects/astronomy/stars/index.shtml>

9. Define in your own terms the following words:
 - a. Neutron star
 - b. Spectroscopy
 - c. Nuclear Fusion
10. What elements compose the stars and planets in the universe?
11. What is a pulsar and how is it formed?
12. Why do the stars twinkle?

Galaxies:

http://www.windows2universe.org/the_universe/Galaxy.html&edu=high

13. Identify and describe the components of a spiral galaxy.
14. Identify three ways that elliptical galaxies differ than spiral galaxies.
15. Compare and contrast the types of irregular galaxies. See #6 if you are confused about what this should look like.

Nebulas:

http://www.windows2universe.org/the_universe/Nebula.html&edu=high

16. Describe the composition of nebulas.
17. Why do nebulas appear to glow?
18. Why are HII regions called stellar nurseries?