

Stars in the Sky - Student Page

Instructions – Go to flippedoutsience.com, Unit 6 and look for the title of this lesson. Each button on the website are sections to complete on this page.

Step 1: What are stars? (click on first video)

What does Pumbaa say stars are?

Crash Course – (click on second video):

What is the Sun and where is it located?

How many Earth's can fit inside the Sun?

Why does the Sun seem so much larger than other stars?

Step 2: Classifying Stars - (look at ppt)

- All stars are _____
- They are made mostly of _____, and they make energy by _____
- Stars are classified by their physical characteristics:
 - _____
 - _____
 - _____

Size of Stars –

Color and Temperature of Stars –

Brightness of a Star –

- Stars differ in brightness –
- The _____
- _____ from Earth depends on the _____ and how bright the star actually is
- A star's brightness is described by its
 - Apparent _____
 - Absolute _____

- Apparent Magnitude - A star's _____ is its brightness as seen from Earth
- A star's _____ is the brightness the star would have if it were at a standard distance from _____

“Our” Star, the Sun:

- The Sun is a
- The Sun is

Properties of the Sun:

-
-

Step 3: Life Cycle of Stars (click on the website links to find this information)

First - Watch the video on Life Cycles of Stars.

Second – go to Life Cycle of a Star website link and complete the following:

1. Draw the life cycle of stars diagram in the blank space below. Leave plenty of room to add information to the diagram.
2. Within the text, there are clickable words. Find “formed” and write down how stars are formed:

3. Within the text, click on “stars”, write down the first sentence about stars: _____

4. Click on “red giants” and add the information to the diagram you drew.
5. Click on “Sun” read the information on it. Then put the Sun next to the type of star that it is, on the diagram.
6. Click on “planetary nebula” and read that information.
7. Click on “white dwarf” – summarize that information and add it to your diagram
8. Click on the other key words and add that information as well. Make sure to define: supernova, neutron star and black hole.

Step 4: Nebulas and Galaxies (go back to flipped out science and click on the “Galaxies” button)

Click on the link for Nebulas. Once on the website, read the passage in order to answer these questions:

1. What are nebulas?
2. What is formed in them?
3. Why do some nebulae glow with light?
4. What do planetary nebula result from?

Go back to the Nebula and Galaxies page on the teacher’s website. Click on the video about galaxies. Answer these questions:

1. Describe what a galaxy is:
2. What are the 3 main different types of galaxies?
3. What type of galaxy is our Milky Way?

Go back to teacher website and click on the link called “Types of Galaxies”, answer the next question.

4. Give a short summary or description for each type of galaxy –

Spiral –

Elliptical –

Irregular –

5. For each of the images, identify the type of galaxy. Use the images posted at the end of the galaxies page on flippedoutsience.com. The letters are under the images.

A. _____

B. _____

C. _____ (you may have to research to find this name!)

D. _____