

NAME: _____

Galaxy Webquest

1. <http://science.nasa.gov/astrophysics/focus-areas/what-are-galaxies/>

- a) Is the Milky Way typical or unusual? _____
- b) How many stars does the milky wave have? _____
- c) How is the Milky Way held together? _____
- d) What shape does the Milky Way have? _____
- e) What is at the center of the Milky Way? _____

2. <http://science.nationalgeographic.com/science/space/universe/galaxies-article/>

- a) In your own words, what are galaxies?

- b) How many stars are in a galaxy? _____
- c) What is considered a small galaxy? _____

3. <http://www.maa.clell.de/Messier/galaxy.html>

In your own words, describe the four types of galaxies:

- a) spiral – _____

- b) lenticular – _____

- c) elliptical – _____

- d) irregular – _____

Draw and label the four galaxy types.

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4. <http://www.nasa.gov/audience/forstudents/5-8/features/nasa-knows/what-is-a-black-hole-58.html>

- a) How Big Are Black Holes? _____

b) How small can the smallest black hole be? What is the mass of a small black hole?

c) What is a black hole with mass 20x that of the sun called? Are they rare?

d) What are the largest black holes called? What mass do they have?

e) What is the black hole at the center of the Milky Way called?

5. <http://nasascience.nasa.gov/astrophysics/how-do-stars-form-and-evolve>

Look at the heading "STARS AND THEIR FATES" and read about all the different things that can happen to stars after they die. What do you think will happen to the Sun after it dies?

6. http://science.nasa.gov/science-news/science-at-nasa/2012/31may_andromeda/

What will happen to our galaxy in 4 billion years?

7. <http://antwrp.gsfc.nasa.gov/apod/ap080420.html>

This is a picture of two galaxies colliding. What do scientists think will eventually happen to the two galaxies? _____

If you finish early, play an educational game from the following sites:

<http://www.astrosociety.org/edu/surfgame.html>

<http://www.scigames.org>

<http://spaceplace.nasa.gov/menu/play/>