

REINFORCEMENT

Galaxies and the Expanding Universe

Use the terms in the box to complete the following sentences.

Milky Way galaxy	200 billion stars	Andromeda cluster	Local Group
irregular spiral	Doppler shifts	elliptical	big bang theory
			Clouds of Magellan

1. A _____ is a large group of stars, gas, and dust held together by gravity.
2. A _____ is a group of galaxies.
3. _____ galaxies have many different shapes and are usually smaller and less common than other types of galaxies.
4. The two types of _____ galaxies are barred and normal.
5. Galaxies shaped like footballs are _____ galaxies.
6. The _____ are two irregular galaxies about 170 000 light-years away from Earth.
7. The solar system in which we live is in the _____ Galaxy.
8. The _____ is an explanation for the formation of the universe.
9. A spiral galaxy about 2.2 million light-years away is in the constellation of _____.
10. The Milky Way Galaxy contains more than _____.
11. Both the Milky Way and Andromeda galaxies are members of the cluster named the _____.
12. _____ show that outside galaxies are moving away from the Local Group.

STUDY GUIDE

Galaxies and the Expanding Universe

Write the term that matches each description in the spaces provided. Place one letter in each space. One letter has been given for each answer.

1. _____ A _____
2. _____ S _____ G _____
3. _____ A _____
4. _____ X _____
5. _____ E _____
6. _____ I _____
7. _____ L _____
8. _____

1. This is the name of the galaxy in which you live.
2. Scientists determined this was expanding by using the spectrograph.
3. This cluster of galaxies is made up of about twenty-five galaxies including the Milky Way.
4. According to this theory, billions of years ago the universe began expanding out of an enormous explosion.
5. This class of galaxies includes football-shaped galaxies.
6. These galaxies are usually small and have many different shapes.
7. These galaxies have arms winding outward from inner regions.
8. This is the change of color on the spectrograph as objects move toward or away from other objects.

Write the clue letters that were given in the answers: _____

Rearrange the letters to form a word for the groups of stars, dust, and gas held together by gravity.

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- A _____ is a group of galaxies.
- _____ galaxies have many different shapes and are usually smaller and less common than other types of galaxies.
- The two types of _____ galaxies are barred and normal.
- Galaxies shaped like footballs are _____ galaxies.
- The _____ are two irregular galaxies about 170 000 light-years away from Earth.
- The solar system in which we live is in the _____ Galaxy.
- The _____ is an explanation for the formation of the universe.
- A spiral galaxy about 2.3 million light-years away is in the constellation of _____.
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