

LOOK TO THE STARS**Movie Worksheet**

Directions: Answer the following questions by circling the correct response. Do your best!

- | | | |
|---|------|-------|
| 1. All of the stars we see belong to the same galaxy as ours. | True | False |
| 2. If you were to travel to Pluto, you would pass all of the stars on your way there. | True | False |
| 3. A galaxy is a large group of stars held together by gravity. | True | False |
| 4. Astronomers use meter sticks to measure distance in space. | True | False |
| 5. Stars are spaced about five light-years apart. | True | False |
| 6. Five percent of the matter in the universe is found in stars. | True | False |
| 7. Nebulas are denser clouds formed within the interstellar medium. | True | False |
| 8. There are more galaxies beyond the Milky Way galaxy. | True | False |
| 9. The Big Bang theory explains how stars are formed. | True | False |
| 10. Gravity and electromagnetic energy are universal forces. | True | False |
| 11. Planets are the building blocks of the universe. | True | False |
| 12. Nuclear fusion happens only with hydrogen atoms. | True | False |
| 13. Nuclear fusion converts matter into energy. | True | False |
| 14. When some stars die they explode into novas. | True | False |
| 15. All stars are the same. | True | False |

After viewing the program, review your answers. See how many questions you answered correctly. Review the ones you answered incorrectly.

LOOK TO THE STARS

What is a Star: Cloze Activity

Directions: Choose the correct word from the word box to complete the paragraph below. Use each word only once. Reread your answers when you first complete the **Cloze Activity** to ensure your answers make sense.

fused	nuclear fusion	gravity	
interstellar medium	helium	hydrogen	
energy	elements	nebula	gas

Stars form from a (1.) _____, those immense, wispy space clouds of concentrated (2.) _____. (3.) _____, and other forces condense nebula particles into stars. A star is a huge ball of fiery (4.) _____. Deep inside the star, (5.) _____ converts matter into energy. During nuclear fusion, atoms get (6.) _____, or welded together. At the same time, a little bit of matter changes into a huge amount of (7.) _____. Nuclear fusion also produces new kinds of elements or matter. For example, when two hydrogen atoms fuse, they become (8.) _____. When two helium atoms fuse, they become lithium, and so forth. The process continues. At the beginning, nearly all matter in the universe was (9.) _____ and helium, the simplest of elements. Yet on Earth, we have about a hundred kinds of elements. Most of these elements went through nuclear fusion in stars a number of times to become different (10.) _____. The stars of the universe cooked up ingredients of our world.