

Astronomy Grade 5 Quiz

Teacher's Answer Key

1. What is a galaxy? *Galaxies are clusters of billions of stars, and may have different shapes. The Sun is one of many stars in our own Milky Way galaxy.*
2. Which planets do not have a magnetic field? *Venus and Mars.*
3. Can you see the Moon during the daytime? *Yes!*
4. How many AUs is the Earth from the Sun? *One. The Earth-Sun distance of 93 million miles is one AU.*
5. What is the Sun made out of, and how much of each? *It's 74% hydrogen and 24% helium, with trace amounts of oxygen, carbon, iron, and neon.*
6. What is a spectrometer, and how do astronomers use it? *A spectrometer is an optical instrument that determines the electromagnetic spectrum of light. It splits the incoming light into its rainbow signatures so astronomers can use it to determine which elements a star is burning.*
7. Can we see all light? If not, which kind can we see with our eyes? *No we can only see a small part of the electromagnetic spectrum: visible or optical light.*
8. How hot is the Sun? *Our Sun is a G-type star, and recent measurements indicate that our Sun is brighter than 85% of the stars in our own galaxy. 15 million °C in the core, and a surface temperature of about 5500°C.*
9. How does the Sun make energy? *The Sun uses nuclear reactions to generate its energy.*
10. Which are light sources and which are seen by reflected light?
 1. Stars light source
 2. The Moon reflected light
 3. Venus reflected light
 4. Pluto reflected light
 5. Comets reflected light
 6. Asteroids reflected light
 7. The Sun light source

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Student Quiz Sheet

Name_____

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6. What is a spectrometer, and how do astronomers use it?
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8. How hot is the Sun?
9. How does the Sun make energy?

10. Which are light sources (LS) and which are seen by reflected light (RL)?

- a. Stars _____
- b. The Moon _____
- c. Venus _____
- d. Pluto _____
- e. Comets _____
- f. Asteroids _____
- g. The Sun _____