

# Astronomy Grade 8 Quiz

## Teacher's Answer Key

1. \_\_\_\_\_ are clusters of billions of stars. (galaxies)
2. Astronomers use \_\_\_\_\_ to view the moon, comets, asteroids, and planets of our solar system. (telescopes)
3. We live in the \_\_\_\_\_ galaxy. (Milky Way)
4. \_\_\_\_\_ are objects where the \_\_\_\_\_ velocity is greater than the speed of light. (black holes, escape)
5. One astronomical unit (AU) is the distance from the \_\_\_\_\_ to the \_\_\_\_\_. (sun, earth)
6. The solar system consists of the sun and a collection of objects, including planets, their \_\_\_\_\_, \_\_\_\_\_ and comets. (moons, asteroids)
7. The \_\_\_\_\_ are caused by the tilt in the Earth's rotational axis away or \_\_\_\_\_ the sun as it travels in its path around the sun. (seasons, toward)
8. We can see \_\_\_\_\_ stars in the night sky through a telescope than we can with our unaided eye. (more)
9. The moon and planets shine by \_\_\_\_\_ light, whereas the sun is the \_\_\_\_\_ of light. (reflected, source)
10. Stars differ in size, temperature and \_\_\_\_\_. Our sun is a \_\_\_\_\_ dwarf star. (color, yellow)
11. Gravitational lensing occurs when massive objects \_\_\_\_\_ light. (bend)
12. Retrograde motion is the apparent motion of a planet in a direction \_\_\_\_\_ to the rest of the bodies in the system. (opposite)
13. The phases of the moon are caused by the position of the \_\_\_\_\_, \_\_\_\_\_ and moon as related to each other. (sun, earth)
14. A \_\_\_\_\_ eclipse occurs when the moon enters the Earth's shadow. (lunar)
15. The sun is a large ball of \_\_\_\_\_. (hot gas)
16. The visible surface of the sun is called the \_\_\_\_\_ and is made up mostly of \_\_\_\_\_. (photosphere, plasma)
17. A \_\_\_\_\_ eclipse occurs when the moon's shadow falls on the Earth. (solar)
18. Sunspots are \_\_\_\_\_ areas on the surface of the sun where the hot gases have cooled down. (dark)
19. The sun's \_\_\_\_\_ rotates faster than its \_\_\_\_\_. (equator, poles)
20. Solar \_\_\_\_\_ are massive eruptions and explosions on the surface of the sun related to the sun's magnetic field. (flares)

### BONUS QUESTION:

Five things to look for when identifying if a rock is a real meteorite are: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_. (heavy for its size/dense, magnetic, non-porous, looks like splashed metal, and leaves no streak on an unglazed tile)

# Astronomy Grade 8 Quiz

## Student Quiz Sheet

Name \_\_\_\_\_

Fill in the blank:

1. \_\_\_\_\_ are clusters of billions of stars.
2. Astronomers use \_\_\_\_\_ to view the moon, comets, asteroids, and planets of our solar system.
3. We live in the \_\_\_\_\_ galaxy.
4. \_\_\_\_\_ are objects where the \_\_\_\_\_ velocity is greater than the speed of light.
5. One astronomical unit (AU) is the distance from the \_\_\_\_\_ to the \_\_\_\_\_.
6. The solar system consists of the sun and a collection of objects, including planets, their \_\_\_\_\_, \_\_\_\_\_ and comets.
7. The \_\_\_\_\_ are caused by the tilt in the Earth's rotational axis away or \_\_\_\_\_ the sun as it travels in its path around the sun.
8. We can see \_\_\_\_\_ stars in the night sky through a telescope than we can with our unaided eye.
9. The moon and planets shine by \_\_\_\_\_ light, whereas the sun is the \_\_\_\_\_ of light.
10. Stars differ in size, temperature and \_\_\_\_\_. Our sun is a \_\_\_\_\_ dwarf star.
11. Gravitational lensing occurs when massive objects \_\_\_\_\_ light.

12. Retrograde motion is the apparent motion of a planet in a direction \_\_\_\_\_ to the rest of the bodies in the system.

13. The phases of the moon are caused by the position of the \_\_\_\_\_, \_\_\_\_\_ and moon as related to each other.

14. A \_\_\_\_\_ eclipse occurs when the moon enters the Earth's shadow.

15. The sun is a large ball of \_\_\_\_\_ .

16. The visible surface of the sun is called the \_\_\_\_\_ and is made up mostly of \_\_\_\_\_. (photosphere, plasma)

17. A \_\_\_\_\_ eclipse occurs when the moon's shadow falls on the Earth.

18. Sunspots are \_\_\_\_\_ areas on the surface of the sun where the hot gases have cooled down.

19. The sun's \_\_\_\_\_ rotates faster than it's \_\_\_\_\_.

20. Solar \_\_\_\_\_ are massive eruptions and explosions on the surface of the sun related to the sun's magnetic field.

### **BONUS QUESTION!**

5 things to look for when identifying a real meteorite:

---

---

---

---

---