

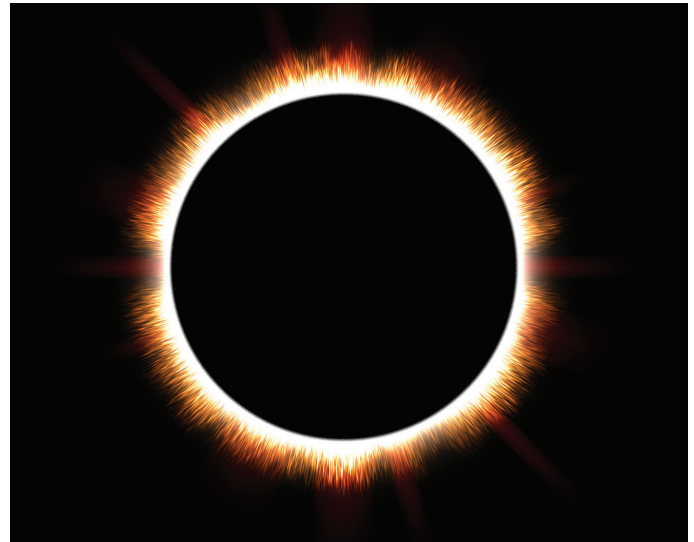
The trusted, student-friendly online reference tool.

Name: _____ Date: _____

Solar Eclipse

Solar eclipses, one of nature's most impressive sights, have fascinated people for thousands of years. How much do you know about solar eclipses? Answer these questions to find out!

First, go to **www.worldbookonline.com**
Then, click on "Kids." If prompted, log on with
your ID and Password.



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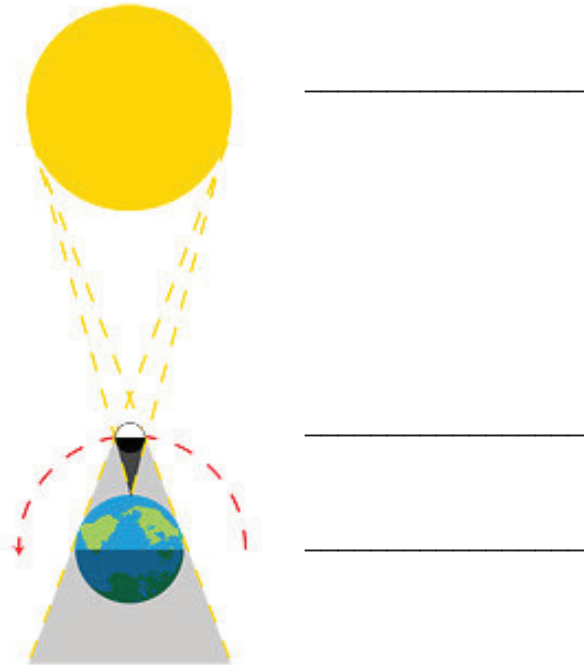
Find It!

Find the answers to the questions below by using the "Search" tool. Since this activity is about solar eclipses, you can start by searching the key word "eclipse."

Write the answers below each question.

1. What are the two types of eclipses that can be seen from Earth?
2. What kind of eclipse takes place when Earth's shadow covers the moon?
3. What blocks the light of the sun during a solar eclipse?
4. What passes across Earth during a solar eclipse?
5. During a solar eclipse, does the moon darken all of the sun?

6. Label the Earth, moon, and sun in the below diagram of a solar eclipse.



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True or False

Write “True” if the statement about viewing solar eclipses is correct. If the statement is not correct, write “False” and correct the statement in the space below.

- _____ 7. It is OK to look at a solar eclipse since the moon covers all or part of the sun.
- _____ 8. During a solar eclipse, the light from the sun is very strong and will hurt the eyes.
- _____ 9. Sunglasses provide enough protection to watch a solar eclipse.

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Watch It!

In the World Book article “Eclipse,” find the video “Eclipse” and answer the below question:

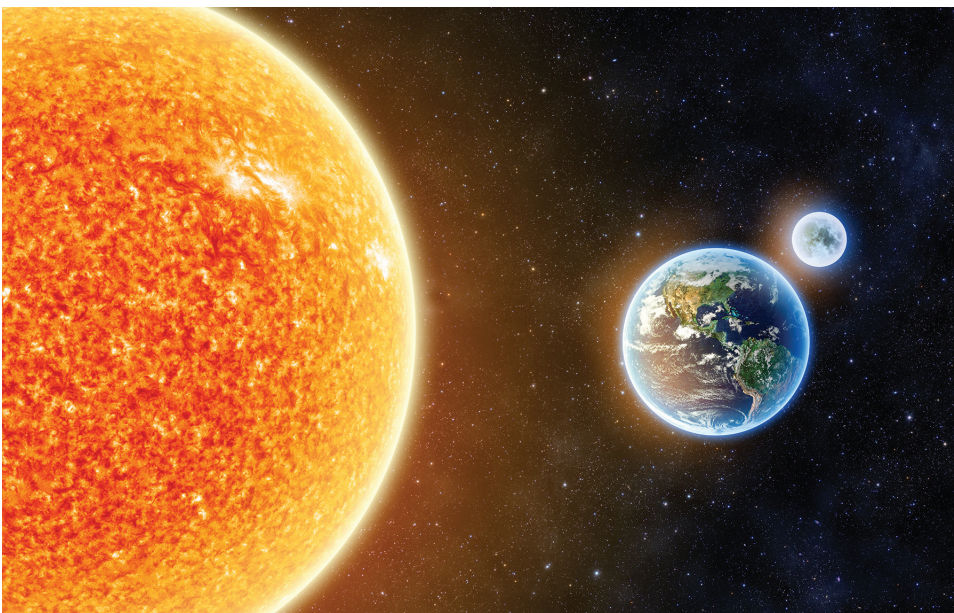
10. In an annular eclipse the moon does not cover the entire sun. What remains visible?

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Sun and Moon

Use World Book's "Sun" and "Moon" articles to answer the questions below:

11. About how far is the sun from Earth?
12. Is the radius of the sun bigger or smaller than the radius of Earth?
13. About how hot is the part of the sun that we can see?
14. Is Earth the only planet with a moon?
15. How long does it take for the moon to travel around Earth?



Teacher Page

Answers:

1. The two kinds of eclipses are lunar eclipses and solar eclipses.
2. A lunar eclipse takes place when Earth's shadow covers the moon.
3. The moon blocks the light of the sun during a solar eclipse.
4. The shadow of the moon passes across Earth during a solar eclipse.
5. No, during a solar eclipse, the moon darkens all or part of the sun.
6. From top to bottom: Sun, Moon, Earth
7. False. A person should never watch a solar eclipse with unprotected eyes.
8. True
9. False. Sunglasses do NOT provide enough protection to watch a solar eclipse.
10. In an annular eclipse the moon does not cover the entire sun. A bright ring is visible.
11. The sun is about 93 million miles (150 million kilometers) from Earth.
12. The radius of the sun is more than 100 times the radius of Earth.
13. The part of the sun that we can see is about 10,000 °F (5,500 °C).
14. No, some of the other planets have moons, too. Jupiter has at least 63 moons.
15. The moon travels around Earth about once every 27 days.