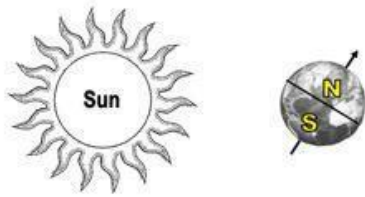


**Sixth Grade Science  
Unit 2 Post Test Study Guide**

1. a. In the illustration, which season best describes the Southern Hemisphere in December?**Summer**

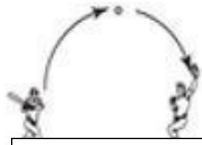


b. What season is the Northern Hemisphere experiencing?  
**Winter**

2. Label each of the following pictures as either rotation, revolution or neither.



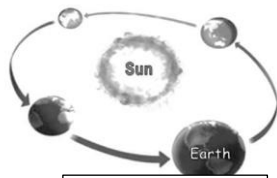
**Rotation**



**Neither**



**Rotation**



**Revolution**

3. How long does it take for the **Earth to rotate (spin) on its axis one time?**

**24 hours**

4. How long does it take for the **Earth to revolve around the Sun one time?**

**365 days**

5. If the Northern Hemisphere is tilted towards the sun, what season is it in the Northern Hemisphere?

**Summer**

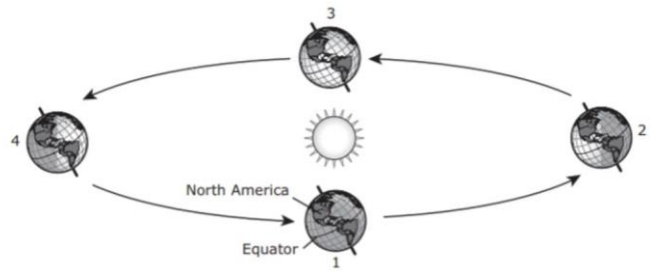
6. If it is July, what season is it in the Southern Hemisphere?

**Winter**

7. Most of the Earth experience four seasons. What is the main cause for the seasons on Earth?

**Earth's revolution and Earth's tilt**

8.



The model shows Earth in several positions relative to the sun. Which season is it in North America at each position?

1: **Spring**

2:**Summer**

3: **Fall**

4:**Winter**

9. On which day (name and date) does the Northern Hemisphere receive the most sunlight (have the longest daylight)?

**June 21st**

10. Label each of the following Moon Phases.

A.  **Waxing Gibbous**

B.  **Waxing Crescent**

C.  **Full Moon**

D.  **New Moon**

E.  **Third Quarter**

11. How much of the moon's bright side can you see during a new moon?

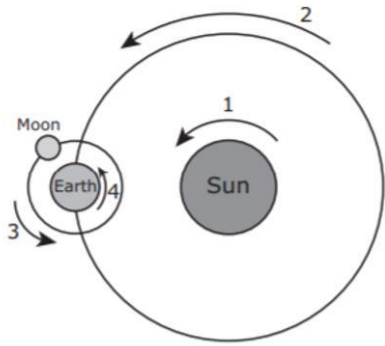
**None 0%**

12. Each night the moon phase changes.

What causes the moon phase to change each night?

**Position of the Earth, Sun, and Moon**

13. A student draws a model showing the movements of Earth, the moon and the sun. What are the effects of the following arrows?

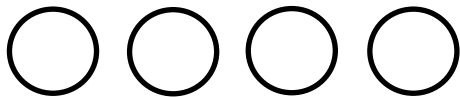


- 2: **Earth's Revolution**
- 3: **Moon's Revolution**
- 4: **Earth's Rotation**

14.



The diagram shows four consecutive moon phases. Draw the next four moon phases in the correct order.



15. Draw the moon on this diagram so that a third quarter moon would be visible from Earth.



16. What is the moon's phase during a **Solar Eclipse**?

**New Moon**

17. What is the moon's phase during a **Lunar Eclipse**?

**Full Moon**

18. If you were outside during a total solar eclipse, what would it look like?

**It would get dark quickly during the day.**

19. A **total** solar eclipse occurs when the Sun is completely obscured by the moon.

20.

Lunar Phases for June 1776

Date	Lunar phase
June 2	Full moon
June 9	Last-quarter moon
June 16	New moon
June 24	First-quarter moon

Source: NASA

On July 4, 1776, the American colonies declared their independence. The table shows the lunar phases for June 1776. What lunar phase occurred on July 4, 1776? **Waning Gibbous**

21.



Describe the moon phase and (if applicable) the eclipse for each letter.

- A: **Full Moon**
- B: **First Quarter**
- C: **Waxing Crescent**
- D: **New Moon**

22. Label each of the following with the correct **eclipse** described.

Solar or Lunar	Description
<b>Solar</b>	When the Moon casts a shadow on the Earth.
<b>Lunar</b>	When the Earth casts a shadow on the Moon.
<b>Solar</b>	When the moon travels between the sun and the Earth.
<b>Lunar</b>	The Moon turns a red color.
<b>Solar</b>	The moon blocks the sun's light from the Earth in the middle of the day.
<b>Lunar</b>	The moon moves into the shadow of the Earth during the night time hours.