

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Bill Nye: Moon Video Worksheet

Answer the following questions, as they are shown in the Bill Nye video.

1. The Earth moves around the \_\_\_\_\_ and the moon moves around the \_\_\_\_\_.

2. The moon looks different to us on earth because of the way the \_\_\_\_\_ hits it. Moonlight is really \_\_\_\_\_.

3. During a new moon, the moon is between you and the \_\_\_\_\_. During a new moon, you can't \_\_\_\_\_ the moon.

4. During a half moon, sunlight is falling on \_\_\_\_\_ of the moon.

5. During a full moon, the earth is between the sun and the \_\_\_\_\_.

6. Sometimes you can see the moon during \_\_\_\_\_.

7. Moon glow is really \_\_\_\_\_.

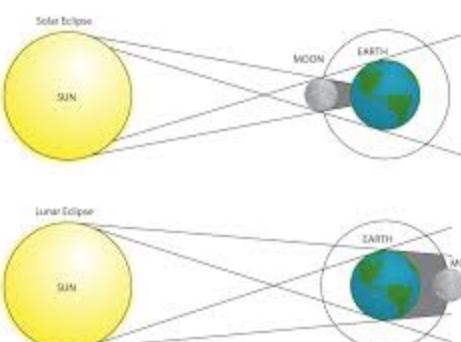
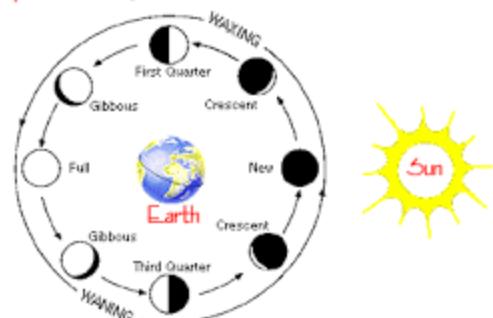
8. The moon does not have as much \_\_\_\_\_ as the Earth, so it doesn't have an atmosphere.

9. Moon rocks reflect a lot of \_\_\_\_\_.

10. One theory of where the moon came from is that the \_\_\_\_\_ was hit by an ancient asteroid a piece of \_\_\_\_\_ flew off. The pull of gravity held it in orbit around the Earth.

11. The moon's gravity pulls on earth's \_\_\_\_\_, which is the main reason we have \_\_\_\_\_.

The Moon as seen from Earth



12. A \_\_\_\_\_ eclipse is when the shadow of the moon falls on the Earth.

13. A \_\_\_\_\_ eclipse is when the shadow of the earth falls on the moon.

14. Why don't we get an eclipse every month: It's all because the moon's orbit has a little \_\_\_\_\_.

15. Ancient Greek astronomers realized the Earth was round when they saw \_\_\_\_\_ on the moon.

16. Only \_\_\_\_\_ people have set foot and walked on the moon.

17. The gravity on the moon is \_\_\_\_\_ of the gravity on earth. If you weigh 60 lbs on earth, you would weigh \_\_\_\_\_ on the moon.

18. If you could jump 2 feet off the ground on earth, you could jump 12 feet off the ground on the \_\_\_\_\_.

19. The moon looks different throughout the month because of its \_\_\_\_\_.

20. The moon has no \_\_\_\_\_. There are no plants or animals.

21. The moon has \_\_\_\_\_. We know because we left detectors there.

22. The Greeks and Romans saw the face of a \_\_\_\_\_ and Asians see a bunch of animals in the shadows.

23. The only way to see the far side of the moon is to be \_\_\_\_\_.

24. Darkness on the moon moves from \_\_\_\_\_ to \_\_\_\_\_.

## The Lunatics “Moon Cycle”

<sup>1</sup>I like to watch the moon cycle,  
<sup>2</sup>I like to watch it phase.  
<sup>3</sup>I like to watch the moon cycle,  
<sup>4</sup>I like to watch it wax and wane.  
  
<sup>5</sup>The moon has its own gravity,  
<sup>6</sup>It makes tides ebb and flow.  
<sup>7</sup>And since our orbits are in sync,  
<sup>8</sup>Then only one side shows.

<sup>9</sup>I want to see the far side of the moon,  
<sup>10</sup>But there's no way.  
<sup>11</sup>Cause the only way to see it,  
<sup>12</sup>Is to be in outer space.

<sup>13</sup>The darkness moves across the moon,  
<sup>14</sup>It goes from right to left.  
<sup>15</sup>I'm learning so much now,  
<sup>16</sup>I want to be a scientist.

25. What is the meaning of lines 5-6? \_\_\_\_\_

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26. What is the meaning of lines 7-12? \_\_\_\_\_

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