




Name: \_\_\_\_\_

**"The Universe" series – "The Moon" (History Channel)**

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1. There are approximately \_\_\_\_\_ moons in our solar system.
  2. Our moon is named \_\_\_\_\_, a Roman name.
  3. Our moon is unique because it is the \_\_\_\_\_ in relation to its planet.
  4. The Moon's diameter (or radius) is \_\_\_\_\_ that of the Earth's diameter.
  5. The Moon experiences *synchronous rotation* which means that it rotates on its axis and revolves around the Earth in the same period of time, \_\_\_\_\_ days.
  6. The Moon has no \_\_\_\_\_, therefore you cannot have \_\_\_\_\_ waves. The only way for astronauts to communicate was using \_\_\_\_\_.
  7. Because there is no \_\_\_\_\_, the light does not scatter like here on Earth. So the sky is always \_\_\_\_\_.
  8. The Moon itself is not colorful. It is mostly \_\_\_\_\_ and \_\_\_\_\_.
  9. The Moon experiences extremes in \_\_\_\_\_, from 270°F during \_\_\_\_\_, to -240°F \_\_\_\_\_.
  10. The Moon has \_\_\_\_\_ the Earth's gravity.
  11. The Moon has a scarred surface. It has been bombarded by micro-\_\_\_\_\_, which do not burn up because the Moon has no \_\_\_\_\_.
  12. This constant bombardment has ground the surface material up to form *regolith*, which varies in size from \_\_\_\_\_ to \_\_\_\_\_.
  13. This bombardment is also responsible for \_\_\_\_\_, which appear as dark circles, sometimes as large as 700 miles in diameter.
  14. The circles are dark because \_\_\_\_\_ burst through the thinned surface after the meteor hit.
  15. Mountain ranges are also visible, but they are not due to \_\_\_\_\_, like here on Earth. \_\_\_\_\_ forces not \_\_\_\_\_ forces created these mountains.
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16. Tycho is an example of one of these craters with visible \_\_\_\_\_ of *ejecta*, the material that surrounds an impact crater.

17. Using a solar calendar is difficult because there are \_\_\_\_\_ days. Most cultures started with a lunar calendar because the lunar cycle is only \_\_\_\_\_ days long.

18. The Moon has a physical effect on the Earth, the \_\_\_\_\_.

19. The Moon's gravitation pull results in \_\_\_\_\_ bulges as it pulls Earth's watery surface. The first is the result of the Moon's gravitational pull and the second is the result of \_\_\_\_\_ force due to the Earth's rotation.

20. Additionally the Moon stabilizes Earth's \_\_\_\_\_.

21. It was not until Galileo aimed his telescope at the Moon and drew its surface features that scientists knew that the Moon was \_\_\_\_\_, not a god or other object.

22. None of the earliest theories as to how the Moon formed could explain why the Moon had a lower \_\_\_\_\_ content than Earth.

23. Man first stepped on the Moon on July 20, \_\_\_\_\_. These astronauts gathered rock samples that were analyzed.

24. The data produced was used to develop the current theory as to how the Moon formed, known as the \_\_\_\_\_ Theory. This theory proposes an explanation for how the Moon formed, how Earth's rotation began, and why the Earth's axis is tilted.