

If we had No Moon: <https://www.youtube.com/watch?v=LygCTL6b7YU>

*Orpheus* was a wonderful musician from Thrace who was married to the beautiful *Eurydice*. He played the lyre and sang so well that the wild animals were tamed and the rivers stopped to listen. He was believed to have invented the hexameter

*If we had No Moon - P1:* <https://www.youtube.com/watch?v=LygCTL6b7YU>

1. Planet size object called, Orpheus, collided with early Earth during formation. This was about the size of which planet?
  - a. Mercury
  - b. Venus
  - c. Mars
  - d. Pluto
2. According to the video, If there is NO Sun then there is \_\_\_\_\_?
  - a. NO Life
  - b. NO liquid water
  - c. NO Atmosphere
3. According to the video, the Earth is about 8000 miles in diameter and the Moon is about \_\_\_\_\_ size of the earth or about 2000 miles in diameter.
  - a. Quarter
  - b. Half
  - c. Three-fourths
  - d. The same
4. Jupiter has how many “large” moons?
  - a. Four
  - b. Eight
  - c. Sixteen
  - d. Sixty eight
5. Mars has two (2) moons which are likely to be?
  - a. Larger than the planet
  - b. Captured asteroids
  - c. The same size as the planet
6. This Planet is just a little bigger than the moon?
  - a. Mercury
  - b. Venus
  - c. Earth
  - d. Mars
7. Select the BEST proof of the Theory of the Formation of the Moon: “Formed at the same time”
  - a. Moon should have a big Iron Core and it does not
  - b. A body as big as the moon would keep on going in space
  - c. Physics just do not add up to this formation
8. Select the BEST proof of the Theory of the Formation of the Moon: “Captured theory”
  - a. Moon should have a big Iron Core and it does not
  - b. A body as big as the moon would keep on going in space
  - c. Physics just do not add up to this formation
9. Select the BEST proof of the Theory of the Formation of the Moon: “Blob theory”
  - a. Moon should have a big Iron Core and it does not
  - b. A body as big as the moon would keep on going in space
  - c. Physics just do not add up to this formation
10. Rocks from the moon have neither iron nor \_\_\_\_\_ in them, making them bone dry.
  - a. Sulfur
  - b. Nitrogen
  - c. Carbon
  - d. Water
11. Can worlds collide?
  - a. YES
  - b. NO
12. Which major planet has NOT had a cosmic collisions:
  - a. Mercury
  - b. Venus
  - c. Pluto
  - d. Earth
  - e. Uranus

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### *If we had No Moon – Part 2*

13. When Orpheus (mars size object) collided with Earth, the whole process would have taken about \_\_\_\_\_
  - a. Instant
  - b. 20 minutes to half hour
  - c. 20 hours to 20 days
  - d. 20 years
14. Other planetary bodies were struck by objects. Which major planet owes its rings to an object colliding with one of its moon's called Miranda?
  - a. Jupiter
  - b. Saturn
  - c. Uranus
  - d. Neptune
15. Saturn's rings will not form a moon because they are within what scientists call \_\_\_\_?
  - a. Gravitational constant
  - b. Escape velocity
  - c. Spiral of death
  - d. Roche limit
16. Orpheus (mars size object) collided with early Earth during formation just at the correct angle and the correct speed (11Km/second; 6.8mi/sec). If Orpheus would have it hit head on what would have happen?
  - a. Earth would have had a twin planet
  - b. Earth would not have a moon
  - c. Earth would have had a ring around it even today
17. If the collision between Protoearth and a mars size object was head on, we would possible have had how many moons?
  - a. Two
  - b. Three
  - c. Four
  - d. NONE earth is destroyed
18. Our moon formed 14,000 miles outside the Roche limit making it close during the first formation. In fact it was \_\_\_\_\_ times closer then than today (230,000 miles away).
  - a. Ten (10)
  - b. Fifteen (15)
  - c. Twenty (20)
  - d. One hundred (100)
19. Because of the moon, Earth's rotation slowed from \_\_\_\_\_ hours to present day 24 hours.
  - a. Four (4)
  - b. Six (6)
  - c. Eight (8)
  - d. Eighteen (18)
20. The moon's tidal pull is 4000 times less than when it was first formed. Tidal forces slows the spin of Earth and the moon is \_\_\_\_\_?
  - a. Getting closer
  - b. Remaining the same distance
  - c. Getting farther away
21. Today, when the Moon, Earth, and Sun are in a straight line, the moon can cover the Sun. This is called?
  - a. Lunar eclipse
  - b. Total Solar eclipse
  - c. Dumb luck that is the same size

If we had No Moon: <https://www.youtube.com/watch?v=LyqCTL6b7YU>

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### *If we had No Moon – Part 3*

22. The moon is drifting away each year by \_\_\_\_\_ each year
- Half inch ( $\frac{1}{2}$  in.)
  - One and half inches ( $1\frac{1}{2}$  in.)
  - Two inches (2 in.)
  - Five inches (5 in.)
23. Because of the Moon, Earth's tilt remains about \_\_\_\_\_ degrees. This keeps earth from wobbling ALL AROUND.
- 2 degrees
  - 7 degrees
  - $23\frac{1}{2}$  degrees
  - 30 degrees
24. The changes in Earth's tilt would cause dramatic \_\_\_\_\_.
- Population boom
  - Tides
  - Orbital change
  - Deadly changes to life
25. We are losing the moon because of \_\_\_\_\_ friction.
- Gravitational
  - Mechanical
  - Solar
  - Tidal
26. The video discuss two ways discussed to stop the moon from moving away. What are they?
- Damming the oceans and adding more salt
  - Hijack another moon and building larger buildings
  - Damming the oceans and capturing another moon
  - Blown up the moon and build a larger one
27. When we have a full moon, it is proven that there is \_\_\_\_\_ ?
- More criminal activity
  - Less shopping activity
  - More people sleep longer
  - Less homework activity
28. According to the video, from new moon to full moon is the \_\_\_\_\_ ?
- Lunar phases
  - Lunar landing
  - Lunar eclipse
29. What effects does a new moon and full moon have on sea turtles on this planet?
- They die off
  - They come to shore to lay eggs
  - They begin feeding

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#### *If we had No Moon – Part 4*

30. According to the video, when Orpheus collided with Earth mark one, some scientists believe that it may have kick started what on this planet?
- a. Water
  - b. Oxygen
  - c. Life
  - d. Trees
31. According to the video, without the impact of Orpheus what would Earth might have had?
- a. Water
  - b. Life
  - c. Trees
32. Mass extinction occurs once every?
- a. 100 years
  - b. 100 thousands years
  - c. 100 million years
  - d. 1000 billion years
33. According to the video, the surface area of the moon is equal to \_\_\_\_ combined
- a. North and South Africa
  - b. North and South Antarctica
  - c. North and South America
  - d. Canada and Russia
34. In 1998, Scientists discovered \_\_\_\_\_ frozen in craters.
- a. Bacteria
  - b. Life
  - c. Transformer
  - d. Water
35. Why is the finding water on the moon so important?
- a. You can use the moon as a lunar base
  - b. You can use the moon as a missile launch
  - c. You can use the moon to keep your trash
  - d. You can use the moon to form oceans

#### *If we had No Moon – Part 5*

36. Who is a legend in planetary prospecting and could have flown on Apollo 17 if not for a medical condition?
- a. David Gump
  - b. Eugene Shoemaker
  - c. David Levy
  - d. Neil Armstrong
37. What kind of housing would be likely on a moon base?
- a. Moon dust huts
  - b. Lunar modals
  - c. Moon caves
  - d. Space station in orbit
38. The Moon has \_\_\_\_\_ gravity of the Earth.
- a.  $\frac{1}{6}^{\text{th}}$
  - b.  $\frac{1}{2}$
  - c.  $\frac{3}{4}$
  - d. 2 times
39. According to the video, what would be the BEST energy to use for space crafts?
- a. Wind power
  - b. Rocket fuel
  - c. Nuclear energy
  - d. There is NO source of energy yet developed
40. IS having a moon important to travel in space?
- a. YES
  - b. NO