

If we had

No Moon

Video WS

Mp4 version can be found on my website. You can try the following

YOUTUBE link: <https://www.youtube.com/watch?v=LygCTL6b7YU>

MOON (LUNA) Facts:

- The Moon has **1/6th** gravity of that of the Earth
- ***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.

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CLASS:

If we had No Moon - P1: <https://www.youtube.com/watch?v=LyqCTL6b7YU>

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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CLASS:

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

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CLASS:

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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CLASS:

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