

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=IEsGndNE1yA>

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:

QUICK ANSWER CHECK TO HELP YOU

1. **A B C D**

2. **A B C D**

3. **A B C D**

4. **A B C D**

5. **A B C D**

6. **A B C D**

7. **A B C D**

8. **A B C D**

9. **A B C D**

10. **A B C D**

11. **A B C D**

12. **A B C D**

13. **A B C D**

14. **A B C D**

15. **A B C D**

16. **A B C D**

17. **A B C D**

18. **A B C D**

19. **A B C D**

20. **A B C D**

21. **A B C D**

22. **A B C D**

23. **A B C D**

24. **A B C D**

25. **A B C D**

26. **A B C D**

27. **A B C D**

28. **A B C D**

29. **A B C D**

30. **A B C D**

31. **A B C D**

32. **A B C D**

33. **A B C D**

34. **A B C D**

35. **A B C D**

36. **A B C D**

37. **A B C D**

38. **A B C D**

39. **A B C D**

40. **A B**

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CLASS:

If we had No Moon -

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