

# If We Had No Moon

## Worksheet

1 How big is the moon compared to the earth?

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2 What are the three theories of the formation of the earth-moon system?

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b  
c

Do these theories work?

3 What is the moon a record of?

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4 What can be seen on the opposite side of the moon?

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5 How long does it take for accretion to occur?

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6 What is Orpheus?

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7 How can they test the theory of planetary collision?

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8 How long would the collision of Earth and Orpheus take?

9 What happened to Miranda?

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10 What is the Roche Radius?

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11 At what angle did Orpheus hit the Earth?

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12 How big did the moon appear right after formation?

13 What was Earth like after this collision?

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14 What causes the Moon to retreat and slows the spin of the Earth?

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15 How long was a day when the Moon was first formed?

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16 Will we always be able to see a total eclipse of the sun?  
Why or why not?

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17 Why does the Earth not wobble very much?

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18 What would the Earth's wobble be like if we had no moon?

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19 What caused the Sahara Desert?

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20 What would the climate be like if we lose the moon?

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21 What will happen to the length of a day as the moon recedes from the Earth?

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22 When does coral reproduce?

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23 What was discovered in Greenland?

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24 What was the importance of the moon forming event to the formation of life?

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25 What kind of atmosphere was formed when two iron cores merged?

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26 What would Earth look like without the impact?

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27 About how often do impacts occur?

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28 How big is the surface of the moon?

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29 How did water arrive on the Earth?

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30 How could the moon help us to get to the planets?

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31 What would homes on the moon look like?

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32 How could the moon be used to send a mission to Mars?

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33 What is an ice space ship?

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34 What is Medusa?

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35 What question do we need to ask if we are looking for life on planets in other solar systems?