

Name: _____ Period: _____ Date: _____

The Moon – *Surface and Atmosphere* Study Guide
Astronomy



Nerd Words:

1. Craters –
2. Maria –
3. Highlands –
4. Rays –
5. Rilles –
6. Regolith –

Review:

1. List 6 facts about the Moon from the introduction below.
2. What is the color pallet for the Moon and where did it come from?
3. What are the two different causes of craters and which one was the cause of craters for the Moon?
4. Where did “maria” come from and why were these areas given that name? Explain.
5. Which Mare did the Apollo 11 mission land on and why?

6. Compare and contrast the maria and the highlands. Describe each, explain their similarities, and explain their differences.
7. What's found in anorthosite?
8. How were scientists able to concrete their estimations about the Moon's composition? Explain.
9. How can an astronomer tell how old a crater is?
10. Does a crater's diameter directly align to the size of the rock fragment that created it? Explain this.
11. Explain the benefit of the Lunar Prospector satellite. What was it and what did it do?
12. How does impaction create maria? Explain with diagrams.
13. Compare and contrast rilles and rays. How are they similar and how are they different?
14. What does *regolith* mean and how did that form? Explain why we don't see this on Earth.
15. What are the trace gases found around the Moon and where did they come from?
16. How much more dense is Earth's atmosphere than the Moon's?
17. Describe why the temperature swings so much on the Moon.