



1. What is Mass? \_\_\_\_\_
2. What happens to your mass when you go from Earth to Saturn? Explain why. \_\_\_\_\_
3. What happens to your weight when you go from Earth to Saturn? Explain why. \_\_\_\_\_
4. What is Gravity? \_\_\_\_\_
5. What is the gravitational acceleration rate on earth? \_\_\_\_\_ What is the gravitational rate on the moon? \_\_\_\_\_
6. Why is gravitational force lower on the moon than on earth? \_\_\_\_\_
7. Draw a picture of the relationship between mass and gravity below:
8. Draw a graph diagram of the relationship between the force of gravity and mass.
9. How does mass and distance affect gravitational force?



Learning Target: I can define and explain the difference between mass and gravitational force.

**Check for Understanding:**

1. Does mass ever change? Explain your answer. \_\_\_\_\_
2. Does weight ever change? Explain your answer. \_\_\_\_\_
3. What is the relationship between mass and gravitational force? \_\_\_\_\_  
\_\_\_\_\_
4. Is this a direct or indirect relationship? Explain your answer. \_\_\_\_\_  
\_\_\_\_\_
5. Summarize the example of the astronaut. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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