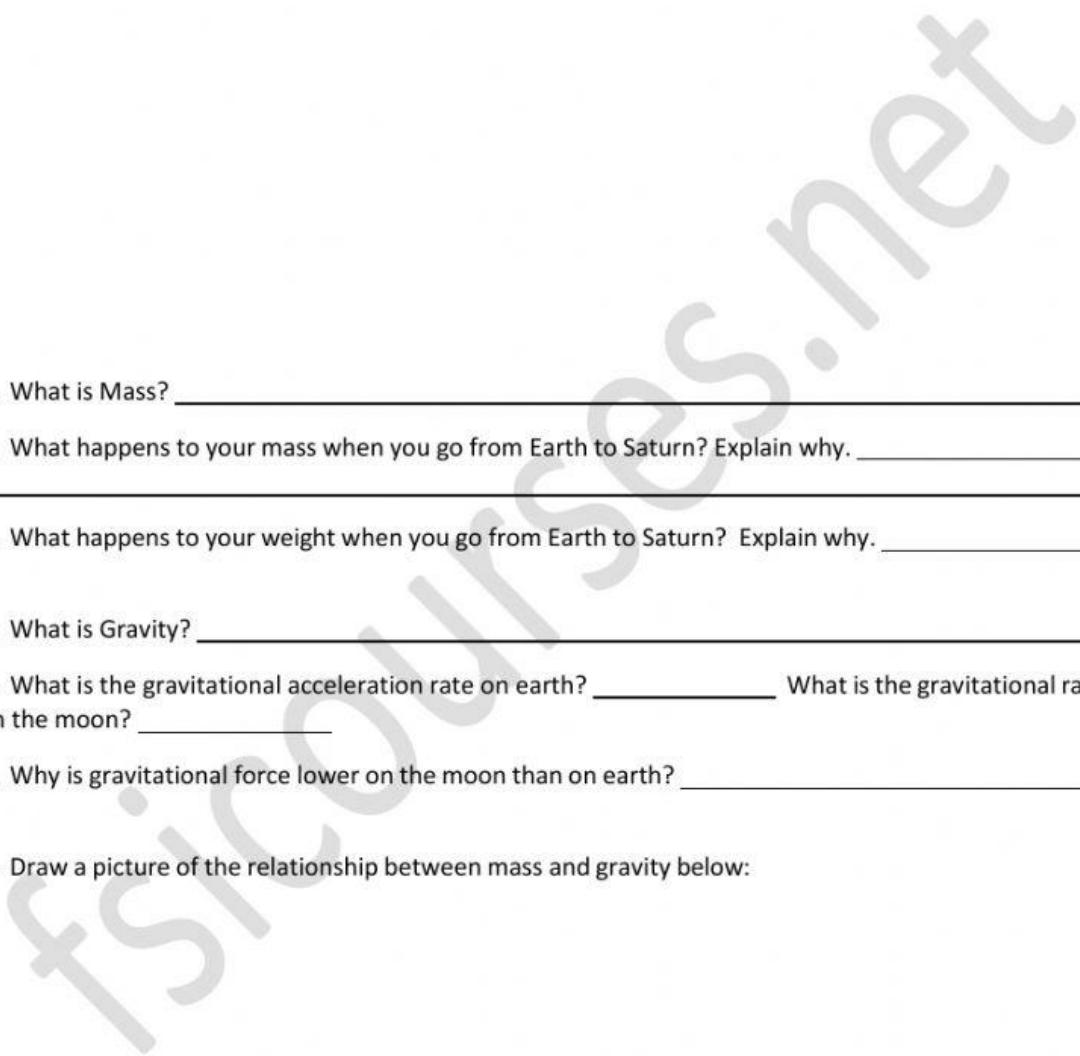


Learning Target: I can define and explain the difference between mass and gravitational force.

[**Mass vs. Gravitational Force 101 video notes**](#)



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? _____

Created By: Chivas & Jordan Spivey

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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