



Name: _____ Date: _____

WEB SURFING SCIENCE

Using the Web Surfing Science websites your teacher has assigned to you, complete the following online treasure hunt.

Part I: Why don't people on the "other side" of Earth fall off?

1. What is gravity?

2. Why don't people fall off of Earth as they move around?

3. Where must an organism be located in order to orbit Earth?

4. If the distance between two objects increases, their gravitational attraction will:

INCREASE DECREASE

Part II: The Universal Law of Gravitation

1. Explain what is happening in the "Newton's Orbital Cannon" diagram.

2. Every object in the universe has mass and gravitational pull. TRUE FALSE

3. Use the information from the website, and create a hypothesis as to why the Moon orbits Earth.

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Part III: Your Weight on Other Worlds

1. What is the difference between weight and mass?

2. What is the relationship between mass and gravity?

Go back to the top and enter your weight in to the calculator.

3. Now that you have read through the page, explain why there is a difference between your weight on Earth and your weight on the Moon.
