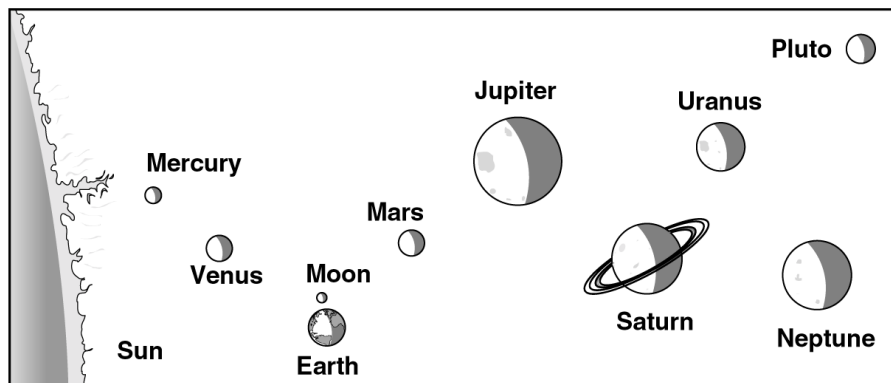


What is gravity?

Lesson Review

The diagram below shows the Sun and the nine planets in the solar system, including the Moon. Use the diagram to answer the following questions.



1. Which body probably has the greatest mass? _____
2. Which body probably has the smallest mass? _____
3. Based on your answers to questions 1 and 2, which body has the strongest force of gravity?

4. Based on your answers to questions 1 and 2, which body has the weakest force of gravity?

5. On which body would you weigh the most? _____
6. On which body would you weigh the least? _____

Skill Challenge

Skills: calculating, comparing, interpreting a table

The table shows how the distance of an object from the center of Earth changes, and how this affects the force of Earth's gravity on the object. Fill in the blanks to complete the table. The first one has been done for you.

Distance (d)	Force of Gravity ($1/d^2$)
1. 3 times as far	1 / 9
2.	1 / 25
3. 64 times as far	
4.	1 / 8,836
5. 18 times as far	
6.	1 / 625

Answer Key

What is gravity?

Lesson Review

1. Sun 2. Moon 3. Sun 4. Moon 5. Sun 6. Moon

Skill Challenge

2. 5 times as far 3. $1/4,096$ 4. 94 times as far

5. $1/324$ 6. 25 times as far