*Name:*_____

Gravity

Gravity on the planets.

Mercury	0.38
Venus	0.9
Earth	1
Mars	0.38
Jupiter	2.87
Saturn	1.32
Uranus	0.93
Neptune	1.23
Pluto	0.03

Gravity is the force that pulls everything around you to the ground including yourself. If there was no gravity you and everything else would float around in space. This may be fun for a short time but you could not live floating around. Objects feel heavy because of the force of gravity on them.

The Scientist Isaac Newton, showed people that gravity is needed on earth as well as in space. It is needed for the motion of planets and stars. The gravitational force from the moon moves water around in the oceans on the earth which gives us the tides.

The table above shows gravity on the planets compared to the earth's gravity.
On a planet with a greater gravity than earth an object will appear heavier.

Task 1 *What is the gravitational difference between the following planets?*

Earth - Mars ☆	Earth - Pluto ☆	Earth - Uranus ☆
Earth 1.00 Mars 0.38 Difference 0.62		

Task 2

Draw a picture of the sun and the nine planets in relation to the sun.

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Task 3

Choose a partner to work with and find out the difference between a star and a planet? Tell your teacher about your findings.

Task 4 *Write an essay about Isaac Newton.*

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