

Name: _____

Physics 11

Lesson 2.4 – Newton's Universal Law of Gravitation

Gravity is a force that attracts every pair of objects in the universe. Its strength depends on their

_____ and the _____.

We can calculate how strong this force is (i.e. its _____) using...



Newton's Universal Law of Gravitation

Example: An astronaut at an altitude of 5000 km experiences a force of 215 N. What is the astronaut's mass?

Example: Three objects, each with a mass of 10 kg, are placed in a straight line as shown below. What is the net force on the centre object due to the other two?

