

PHYSICS DEFINITIONS GRADE 11 - FILL IN THE MISSING TERM

VECTORS AND NEWTON

VECTORS:

Resultant – the _____ of two or more _____

NEWTON:

Normal force – the force or component of a force which a _____ exerts on an object with which it is in contact, and which is _____ to the surface

Frictional force – the force that _____ the motion of an object and which acts _____ to the surface

Static frictional force – the force that _____ the motion of a _____ object relative to a _____

Kinetic frictional force – the force that _____ the motion of a _____ object relative to a _____

Newtons first law of motion – a body will remain in its state of _____ or _____ at _____ unless a _____ /net force acts on it

Inertia – the _____ of an object to any change in its state of motion

Newtons second law of motion – when a _____ /net force acts on an object, the object will _____ in the direction of the force at an _____ proportional to the force and _____ proportional to the _____ of the object

Newtons third law of motion – when object A exerts a _____ on object B, object B _____ exerts an _____ directed force of _____ magnitude on object A

Newtons law of universal gravitation – _____ in the universe attracts every other _____ with a _____ force that is _____ proportional to the product of their _____ and _____ proportional to the _____ of the _____ between their centres

Weight – the _____ force exerted by the _____ on an object

Mass – the _____ of _____ in a body

Weightlessness – the sensation experienced when all forces are removed

forces are