

NORTH WEST GRADE 12 DEFINITIONS (Collectable Marks)

Paper 1: Physics

Newton's laws and application of Newton's laws

Normal force, N ,	is the force or the component of a force which a surface exerts on an object with which it is in contact, and which is perpendicular to the surface.
Frictional force, f ,	is the force that opposes the motion of an object and which acts parallel to the surface.
Static frictional force, f_s ,	is the force that opposes the tendency of motion of a stationary object relative to a surface.
Kinetic frictional force, f_k ,	is the force that opposes the motion of a moving object relative to a surface.
weight	is the gravitational force the Earth exerts on any object on or near its surface.

Newton's laws

Newton's first law of motion:	A body will remain in its state of rest or motion at constant velocity unless a non-zero resultant/net force acts on it.
Newton's second law of motion:	When a resultant/net force acts on an object, the object will accelerate in the direction of the force at an acceleration directly proportional to the force and inversely proportional to the mass of the object.
Newton's third law of motion:	When one body exerts a force on a second body, the second body exerts a force of equal magnitude in the opposite direction on the first body.
Newton's Law of Universal Gravitation:	Each body in the universe attracts every other body with a force that is directly proportional to the product of their masses and inversely proportional to the square of the distance between their centres.

Momentum and Impulse

Momentum	is the product of an object's mass and its velocity.
Newton's second law of motion in terms of momentum	The resultant/net force acting on an object is equal to the rate of change of momentum of the object in the direction of the resultant/net force.
Impulse	is the product of the resultant/net force acting on an object and the time the resultant/net force acts on the object.
The impulse-momentum theorem	$F_{\text{net}}\Delta t = m\Delta v$.
A closed/an isolated system (in Physics),	a system on which the resultant/net external force is zero (A closed/an isolated system excludes external forces that originate outside the colliding bodies, e.g. friction. Only internal forces, e.g. contact forces between the colliding objects, are considered)
The principle of conservation of linear momentum:	The total linear momentum of a closed system remains constant (is conserved).

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