## Newton's Three Laws of Motion

N1: An object continues its state of rest or more with constant velocity unless a resultant force acts on it. If the forces on the object are balanced, the object is in equilibrium Resultant force is zero

No change in object's motion. . If it was at rest, it remains at rest. . If it was moving with constant velocity, it will continue to more with some velocity.

If the forces acting on the object are not balanced . There is a resultant force. . There is a change in the object's motion . objects speed night increase . objects speed night decrease . objects direction night change NAUSHER

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N2: It is a continuation of the first law. It explains what happens when a resultant force cuts on the objut (or when forces are not balanced).

It gives the definition of resultant force.

Force is the rate of change of momentum.  $F = \Delta p \implies F = ma$ 



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F: net/resultant force (N) m: mars (kg) a: anelaratim (ms<sup>2</sup>) Medewith Goodnotes

















output power = ..... W

W [2]