



Free body diagrams show the magnitude and direction of ALL of...

Generally we represent the object as a box with the force arrows coming out...

The size of the arrow indicates its ...

Force	Description

Ex: A book is at rest on a table top.

Ex: A box is pushed across a rough floor at a constant velocity.

Newton's 2nd Law:

Stated as a formula:



Note that...

Ex. A 5.0 kg block is pushed to the right along a frictionless track with a force of 10.0 N. What is its acceleration?

Ex. A 650 kg car accelerates at 4.0 m/s² south. What is the net force acting on it?