

Reporting Category 2: Force, Motion, & Energy

8.6.A demonstrate and calculate how unbalanced forces change the speed or direction of an object's motion

Force

A Force is a Push or a Pull that can change motion.

How Force is Measured

Newton - The SI unit used to measure force. The symbol for Newton is N.



Net force = 3N to the right

Net Force = mass $\times$ acceleration

$$F = m \times a$$

I am a roller skater with a mass of 70kg. If I am accelerating toward a wall at 3.2m/s², what will be the amount of force at which I hit the wall?

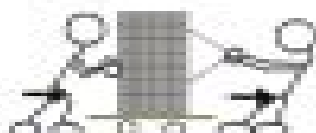


Spring Scale - Measures Force in Newtons (N).

Net Force

When more than one force acts on an object, the forces combine to form a **Net Force**. The combination of all the forces acting on an object is the **Net Force**.

Push 1 + Pull 1 = Net Force 2 to the right



Net Force = 2 →

Push 2 + Pull 1 = Net Force 1 to the left



Net Force = 1 ←

ADD forces in the same direction

SUBTRACT forces in opposite directions.

Magnitude is the size of a force.

Alief Isd Middle School Science Staar Review

KJ Lindholm-Leary



Alief Isd Middle School Science Staar Review:

The Enigmatic Realm of **Alief Isd Middle School Science Staar Review**: Unleashing the Language is Inner Magic

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