

# Alief ISD Middle School Science STAAR Review

## 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/s<sup>2</sup>, 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

**Hussin A.Rothana**



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