Newton's 1st Law:

It takes an overall force to change the motion of an object. ·Overall force, net force, unbalanced force: when all the forces on an object DON'T just cancel each Ather out. · Changing motion: Changes direction,
Speeds up, slows down (ACLELERATION)
NET FORCES CAUSE ACCELERATION

Example predictions:

- If an object is moving and there is not an overall force on it, it will keep moving at the same speed in the same direction
- · If something is slowing down, there is a net force acting on the object.
- · If something is being pushed but is not speeding up, there must be another force in the opposite direction balancing the push.

Hidden fornes:

Gravity is always pulling straight down (on earth)

Eniction is always pushing against
a moving object if it's sliding or moving
along a surface.

Air resistance is always pushing against

a moving object.

tredictions:

- Mill the object slow down? If No to all three...

 Will the object speed up? "constant velocity"
- · Is the object feeling an overall (net) force—and in what director?