

## Newton's 1<sup>st</sup> Law:

. What are forces?

→ Forces are pushes or pulls

. What do forces do?

→ Forces can change  
Motion

# Newton's 1<sup>st</sup> Law Says:

Objects will

**ACCELERATE**

— speed up  
— slow down  
— change direction

if and only if they  
are experiencing a

**NET (overall) FORCE**

(all the forces don't just  
balance each other out)

- If an object is motionless, it takes a net force to start it moving
- if an object is moving, it takes a net force to slow it down (or speed it up)
- if an object is moving in one direction, it takes a net force to get it to turn