

Newton's 1st Law:

- It takes an overall (net) force to change the motion of an object. accelerate

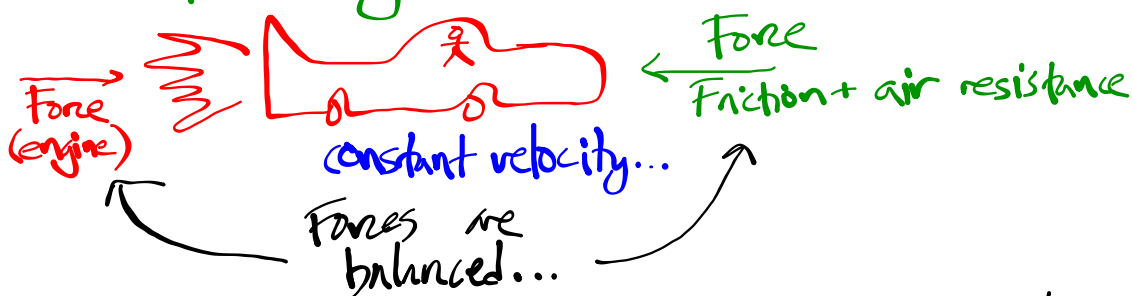
• We can change an object's motion if it

1. Speeds up
2. Slows down
3. Changes direction

} acceleration

★ When an object changes direction – even if its speed stays exactly the same – it is accelerating!

★ An object with a constant velocity (no change in speed or direction) is NOT experiencing a net force.



★ Forces and accelerations are not necessarily in the same direction as an object's motion.

