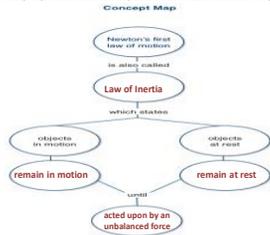


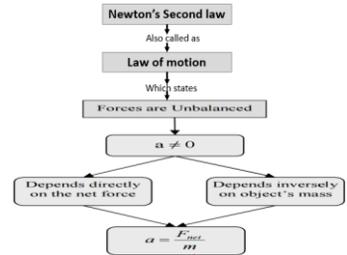
Complete this Concept Map. Add a 5 sentence summary about Newton's 1st Law to the bottom of the page. (Pg 643-644)



5-sentence Summary – Newton's first law

- Newton's first law of motion states that an object at rest will remain at rest, and an object moving at a constant velocity will continue moving at a constant velocity, unless it is acted upon by an unbalanced force. This is called as the "Law of Inertia."

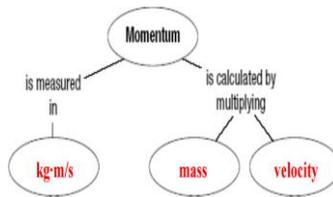
Complete this Concept Map. Add a 5 sentence summary about Newton's 2nd Law to the bottom of the page. (Pg 644-645)



5-sentence Summary – Newton's second law

- According to Newton's second law of motion, acceleration depends on the object's mass and on the net force acting on the object.
- This is called as the "Law of the Motion."
- $F = ma$ (Force = mass X acceleration)

Complete this Concept Map. Add a 5 sentence summary about Momentum to the bottom of the page. (Pg 650)



5-sentence Summary – Momentum

- The momentum of a moving object can be determined by multiplying the object's mass and velocity.
- Momentum = Mass X Velocity
- The **law of conservation of momentum** states that, in the absence of outside forces, the total momentum of objects that interact does not change. The amount of momentum is the same before and after they interact.

Draw



- Redraw the picture, copy down the question, and answer it in complete sentences. Then list five (5) other examples of Newton's Third Law of Motion. And write a five (5) sentence summary about Newton's 3rd Law of Motion.

Draw



- In an attempt to get off a row boat, whenever the girl will try to step from the boat onto the dock, the boat will move backwards. As she pushes against the boat, the boat in turn pushes back against her.
- A bird flies by use of its wings. The wings of a bird push air downwards. Since forces result from mutual interactions, the air must also be pushing the bird upwards.
- As the wheels of a car spin, they grip the road and push the road backwards.

5-sentence Summary – Newton's third law

- Newton's third law of motion states that if one object exerts a force on another object, then the second object exerts a force of equal strength in the opposite direction on the first object.
- This is called as the "Law of Action-Reaction."
- Every action has an equal and opposite reaction.