Warm - Ups

Week 21

- Vocabulary: MON
  1st law of motion – (Inertia) An object at rest stays at rest and an object in motion stays in motion unless acted on by an outside force

  2nd law of motion – Force = Mass x Acceleration; the more mass or acceleration will make force greater
- What is force?
  - A motion
  - Both a push or a pull
  - Only a push
  - Only a pull
- What is Net Force?
  - When two or more forces act on an object at the same time
  - two unequal forces are applied to an object in opposite directions and the object does move.
  - A push or a pull
  - When two equal forces are applied to an object in opposite directions, the object does not move

- Vocabulary: Tues

  3rd law of motion – For every action, there is an equal and opposite reaction

  Acceleration – Acceleration = Force / Mass; any change in speed or direction
- What is balanced force?
  - two unequal forces are applied to an object in opposite directions and the object does move.
  - The amount of only one force on an object
  - A push or a pull
  - When two equal forces are applied to an object in opposite directions, the object does not move
- What is unbalanced force?
  - two unequal forces are applied to an object in opposite directions and the object does move.
  - The amount of only one force on an object
  - A push or a pull
  - When two equal forces are applied to an object in opposite directions, the object does not move

- Vocabulary: Thurs

  Average speed – Average Speed = Distance / Time

  Balanced forces – two separate forces on an object in opposite directions at the same time

- Force=
  - Mass x Acceleration
  - Mass / Acceleration
  - Accerlation2 x Mass
  - Acceleration x Mass2
- What is the net force on a motorcycle with a mass of 500kg if its acceleration is 46.0 m/s2?
  - 23,000 N
  - 10.87 N
  - 1,058,000 N
  - 11,500,000 N

1. What is the formula for speed?
   A. S=dt
   B. S=d/t
   C. S=t/d
   D. There is no equation for speed
2. Inertia is _____
   A. The unit of force
   B. An object's tendency to change
   C. The rate that something changes directions
   D. An object's tendency to resist change
3. What law? For every action there is an equal and opposite reaction:
   A. 1st
   B. 2nd
   C. 3rd
   D. 4th
4. F=mA is what law?
   A. 1st
   B. 2nd
   C. 3rd
   D. 4th
5. What is the equation for work?
   A. W=fd
   B. W=f/d
   C. W=d/f
   D. There is no equation for work