

Warm - Ups

Week 22

- **Vocabulary:**

Comet – A relatively small object in space made of gas, ice, and dust that orbits the sun; usually has a long tail when near the sun

Gravity - The force that tries to pull two objects toward each other. More mass = more gravity

- **What is the derived formula for time?**

- Speed = Distance / time

- Time = speed/ distance

- Time = distance/ speed

- Distance = Speed x Time

- **Everything falls at the same rate, what is it?**

- 8.9 m/s²

- 8.7m/s²

- 12.2 m/s²

- 9.8m/s²

- **Vocabulary:**
 - Rotation – To spin on an axis
 - Revolution – One orbit around an object
- The distances between galaxies are so great that they are generally measured in units called:
 - Kilometers
 - Light years
 - Astronomical units
 - Angstroms
- What is sent to other planets to collect data to send back to earth?
 - Saturn V
 - Space Shuttle
 - Space Probe
 - Satellite

- Vocabulary:

Meteoroid– A rock floating in space

Meteorite– What a meteoroid is called when it lands on earth

- Speed Equals:

- Time / Distance

- Distance / Time

- Time x Distance

- Distance x Time

- 40 mph:

- Is division

- Is multiplication

- Is addition

- Is subtraction

1. $W=fd$; What unit is work measured in?
- A. Newton-Meter
 - B. Meters
 - C. Meters
 - D. Joule's
2. You use a force of 70 newtons to pick up a box of apples 2 meters to balance on your head How much work is done when lifting?
- A. 0140 j
 - B. 0j
 - C. 140j
 - D. 70j
3. Which of the following is the most true:
- A. When doing work, you can reduce the amount of force used with simple machines to increase the distance needed
 - B. When doing work, you can reduce the amount of force used with simple machines to decrease the distance needed
 - C. Newtons 3rd law of inertia states that an object at rest stays at rest
 - D. Newtons 2nd law of motions states that for every action there is an equal and opposite reaction
4. Which of the following is true about a pulley
- A. It reduces the amount of work needed to be done
 - B. It increases the amount of force applied
 - C. It decreases the amount of force applied
 - D. It changes the direction of the force applied
5. Which of the following is NOT TRUE
- A. Energy is stored in the body as chemical energy
 - B. Energy can be transformed into heat
 - C. Energy can be created and destroyed
 - D. Energy cannot be created or destroyed