

Warm - Ups

Week 21

- **Vocabulary:**
 - Work – $\text{Work} = \text{Force} \times \text{Distance}$; more force or distance means more work
 - Wheel and axel – A wheel with a rod, called an axle, through its center; lifts or moves a load
- Earth rotates on its axis once every 24 hours. What would happen if Earth rotated on its axis once every 20 hours?
 - Earth's years would be shorter
 - The moon's phases would be shorter
 - Earth's days and nights would be shorter
 - None of the above
- The length of a year on Earth is determined by the time it takes:
 - The moon to revolve around Earth
 - Earth to rotate on its axis
 - The sun to rotate on its axis
 - Earth to orbit the sun

- **Vocabulary:**
 - Speed – $\text{Speed} = \text{Distance} / \text{Time}$; How fast something is moving
 - Sun – A star that is the center of a planetary system
- When it is summer in Texas, it is winter in Australia. What causes this difference in seasons?
 - The rotation of Earth on its axis
 - The tilt of Earth's axis
 - Earth's distance from the sun
 - The speed of Earth's rotation
- If Earth is closer to the sun in the winter than in the summer in the Northern Hemisphere, why is it colder in the winter than in the summer?
 - There are more cold air masses in the winter
 - The Northern Hemisphere is tilted away from the sun in the winter
 - The sun gives off less light in the winter
 - The Earth rotates faster in the winter

Quiz Day

- **Get Answer Document**
- **Clear Desk**

- **Vocabulary:**

Space probe - An unmanned spacecraft that is sent into space to do research

Space shuttle – a reusable spacecraft that transports people and materials to and from space

- Which body in our Solar System has the greatest mass?

- Earth

- Jupiter

- The sun

- Venus

- All of the following are types of stars except

- Red giants

- Dwarfs

- Supergiants

- Nebula

Quiz Day

- Get Friday Quiz
- Clear Desk

- 1) If you apply 200N of force to a wall, how much work is done?
 - a) 0J
 - b) 100J
 - c) 1000J
 - d) None of the above
- 2) What travels into space like a rocket and lands like a plane?
 - a) Saturn V
 - b) Space Shuttle
 - c) Space Probe
 - d) None of the above
- 3) What law of motion is demonstrated during a rocket lift off?
 - a) 1st
 - b) 2nd
 - c) 3rd
 - d) None of the above
- 4) What law of motion is demonstrated by a bowling ball rolling down an alley?
 - a) 1st
 - b) 2nd
 - c) 3rd
 - d) None of the above
- 5) You travel by plane 3000 miles in 3 hours. What is the speed of the plane?
 - a) 9000 m/h
 - b) 1,000 m/h
 - c) 300 m/h
 - d) None of the above