Science Physical about Test الملف
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Science exam

III Partial

9th grade

SAINT JOHN'S

ACTIVITY 1. Write on the line the information require.

1. Name 3 types of measurement from international system of units (SI)

   _____ _____ _____

2. _____ desribes speed and direction.
3. _____ is the force that pulls objects downward.
4. Two factors affect the gravitational attraction between objects: _____ _____
5. To find the momentum you need to multiply: _____ x _____

ACTIVITY 2. True or False.

1. In pressure, a fluid it can be only a liquid.....( )
2. Unbalanced forces can act upon an object.....( )
3. Inertia means that an object at rest will remain at rest.....( )
4. Gravity on Earth is 10.8 m/s^2 .....( )
5. If you try move a box against Superman, the box will move to the left.....( )

ACTIVITY 3.

Determining Speed and Velocity

Speed is a measure of how fast an object is moving. **Velocity** is a measure of how fast an object is traveling in a certain direction. An object can travel at a constant speed that does not change. However, if the direction in which it is traveling does, then its velocity has changed. To find the velocity of an object, use this formula.

$$\text{speed} = \frac{\text{distance}}{\text{time}} \qquad \text{velocity} = \frac{\text{distance}}{\text{time}} \text{ in a specific direction}$$

1. Find the velocity of a truck that travels 75 miles north in 2.5 hours.

   _____ kilometers per hour

2. Find the speed of a bicyclist who took an hour and a half to travel 10 kilometers.

   _____ kilometers per hour

3. Find the velocity of a plane that traveled 3,000 miles west in 5 hours.

   _____ miles per hour

4. Find the velocity of a car that took 7.5 hours to travel 491.25 miles due south.

   _____ miles per hour

5. Find the average speed of a train that traveled 543 kilometers in 6 hours.

   _____ kilometers per hour

6. Find the velocity of a train that traveled 420 miles northeast to northwest between two cities in 3.5 hours.

   _____ miles per hour

7. A plane flies due west for 4 1/2 hours. It travels a total of 5,400 kilometers. What was its velocity?

   _____ kilometers per hour

8. A cork floats a distance of 8 3/4 miles downriver after a period of 3 hours 30 minutes. What was its average speed?

   _____ miles per hour

Calculating Net Force

1.  Pushing 39N Pulling 29N Net Force = _____	2.  Pushing 24N Pulling 65N Net Force = _____
3.  Pushing 13N Pulling 16N Net Force = _____	4.  Pushing 29N Pushing 30N Net Force = _____
5.  Pulling 10N Pulling 41N Net Force = _____	6.  Pulling 76N Pulling 76N Net Force = _____