

Name : \_\_\_\_\_ Date: \_\_\_\_\_

## Chapter Test on Measurements

**Part 1. Match the terms** with the terminologies listed below. Write **UPPER CASE LETTER** that corresponds to the definition listed below.

1. The science that deals with aircraft design and operation.
2. The science that deals with the effects of forces acting on bodies in motion and the forces that affects it
3. The process of associating numbers with physical quantities and phenomena.
4. The unit of Force
5. The science that deals with the effects of forces acting on bodies in motion without regard to its cause.
6. When using the measuring cylinder, read the lower _____ to measure the correct volume of liquid.
7. The science that deals with the physical properties of celestial bodies.
8. These are quantities that have magnitude and direction.
9. It is the alternative unit of Newton per cubic meter
10. The science that studies the propagation of sound waves.

- A Measurement**
- B Standard**
- C Vector**
- D Kinematics**
- E Acoustic**
- F Meniscus**
- G Pascal**
- H Newton**
- I Dynamics**
- J Astrophysics**

## Part 2. Physical Quantities and Units.

1. Classify the following quantities into vector or scalar. Write **S** for scalar and **V** for vector.

1. mass	6. momentum
2. density	7. acceleration
3. force	8. volume
4. pressure	9. speed
5. distance	10. energy

2. Write the SI unit of the following quantities. **All answers must be in lower case.**

1. mass	
2. density	
3. force	
4. pressure	
5. acceleration	

**Part 3. Calculations. Show your working.**

1. A bicycle was driven from school to downtown 2,468 meters away. Calculate how far it travelled in centimetres. Conversion factor: 1 m = 100 cm (3 points)

Write your final answer in the box

2. Louise notice that her mass increases to 278 lbs. What her mass in kilogram? (3 points)  
Conversion factor: 1 kg = 2.21 lbs

Write your final answer in the box

3. My height is 5 feet 9 inches tall. What is my height in inches? (4 points)  
Conversion factor: 1 foot = 12 inches

Write your final answer in the box