

Measurement and Lab Equipment Basics Assignment

I. Multiple Choice: Select the correct answer for each question

1. 1 inch is equivalent to _____ cm.

- a) 1.54
- b) 2.54
- c) 1.45
- d) 2.45

2. _____ is measured in grams.

- a) Energy
- b) Pressure
- c) Mass
- d) Volume

3. Which of the following instruments is used to measure the mass of an object?

- a) Digital balance
- b) pH meter
- c) Microscope
- d) Incubator

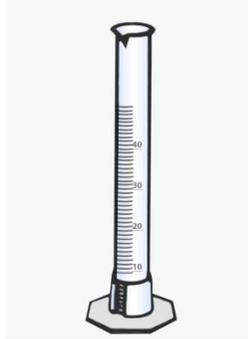
4. Identify the lab equipment seen below:



- a) Physical Balance
- b) Digital Balance
- c) Microscope
- d) pH meter

Measurement and Lab Equipment Basics Assignment

5. Identify the piece of glassware below:



- a) Conical flask
- b) Measuring cylinder
- c) Beaker
- d) Volumetric flask

6. Identify the objects below:



- a) Wire gauze
- b) Test tube racks
- c) Dropper
- d) Measuring cylinder

7. Which of the following is the smallest unit of length?

- a) Centimeter
- b) Decimeter
- c) Millimeter
- d) Micrometer

8. The ounce is used as a unit of _____.

- a) Length
- b) Distance

Measurement and Lab Equipment Basics Assignment

- c) Pressure
- d) Weight

9. _____ is used to measure the volume of any liquid.

- a) Graduated cylinder
- b) Beaker
- c) Flask
- d) Test tube

10. _____ is used to hold test tube.

- a) Test tube rack
- b) Wire gauge
- c) Beaker
- d) Cylinder

II. Convert the following:

1. 5 ml to μl

2. 20 degree C to degree F

3. 30 mm to cm

4. 1 gallon to liter

5. 10 kg to pound

Measurement and Lab Equipment Basics Assignment

III. While measuring the mass of an object using a digital balance, certain steps are followed to get an accurate weight. Write a number from 1 through 4 beside each step, to indicate the order in which these steps take place.

- a) Press "Tare" so that the weight comes to "0" reading.
- b) Switch on the balance and place the weight boat on the digital balance.
- c) Record the weight of the object.
- d) Place the object on the weight boat.

IV. Decide if the following statements are true or false. Correct any false statements.

1. One kilogram is more than one decigram.

2. While measuring the volume of liquid using a graduated cylinder, the upper meniscus is used.

3. Pressing "tare" resets the digital balance to "0" reading.

4. One centimeter is smaller than one millimeter.

5. A spatula is used to pick up a small amount of a solid substance.

V. Take a ruler and measure the following things in millimeters (mm).

- a) Length of a paper

Paper No.	Length of Paper (mm)
1.	
2.	
3.	
4.	
5.	

Measurement and Lab Equipment Basics Assignment

b) Width of a paper

Paper No.	Width of Paper (mm)
1.	
2.	
3.	
4.	
5.	

VI. Why is it important to press tare before weighing an object?

VII. What is the principle behind a pH meter?

VIII. Describe the two lenses used in a compound microscope.