

1. The smallest part of an element that can exist as an element is a(n) _____

2. What would happen to the speed of the motion of the particles in a gas as it is cooled?

3. The _____ says:

- Matter is made of small particles
- The particles are in constant motion
- There is a large amount of space between the particles
- The particles collide with each other and transfer energy

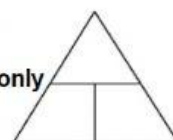
4. To find the mass you would use a _____

5. The variable that you (the experimenter) change is the _____

6. The variable that you (the experimenter) measure is the _____

7. What is the formula for density? **Density =** $\frac{\text{Mass}}{\text{Volume}}$ **Letters only** Fill in the triangle.

Letters only



8. Classify each as an 'E' Element, 'C' Compound, or 'M' Mixture.

- a. _____ C6H12O6 Listen
- b. _____ Air
- c. _____ O – Oxygen
- d. _____ Two of more substance NOT chemically combined or in a specific ratio
- e. _____ Pure Water H2O
- f. _____ Two or more substances combined in a specific ratio
- g. _____ Table Salt NaCl
- h. _____ Two or more substances combined physically
- i. _____ NaHCO3
- j. _____ A substance that cannot be broken down into any other substance

9. When you add enough heat to a solid it will change phase to a _____

10. Fill out the chart:

State of matter	Definite Shape (Y/N)	Definite Volume (Y/N)
Solid		
Liquid		
Gas		