Practice – Classifying Matter & Particle Diagrams

1. Classify the substance in the box.
   a. Liquid element
   b. Gaseous element
   c. Solid element
   d. Solid compound

2. Which phrase best describes what is inside the box?
   a. Pure substance
   b. Mixture of diatomic elements
   c. Mixture of monoatomic elements
   d. Heterogeneous mixture

3. Which phrase best describes what is inside the box?
   a. Pure substance
   b. Mixture of elements
   c. Mixture of compounds
   d. Mixture of an element and a compound

4. Which phrase best describes what is inside the box?
   a. Liquid mixture of two elements
   b. Liquid mixture of an element and a compound
   c. Heterogeneous mixture of an element and a compound
   d. Homogeneous mixture of an element and a compound

5. Which phrase best describes what is inside the box?
   a. Liquid element
   b. Liquid compound
   c. Solid element
   d. Solid diatomic element

6. Which phrase best describes what is inside the box?
   a. Liquid compound
   b. Liquid heterogeneous mixture
   c. Liquid homogeneous mixture
   d. Solid homogeneous mixture

7. Which phrase best describes what is inside the box?
   a. Homogeneous mixture
   b. Heterogeneous mixture
   c. Solid compound
   d. Solid mixture of compounds
8. Which phrase best describes what is inside the box?
   a. Solid element
   b. Solid compound
   c. Solid heterogeneous mixture
   d. Liquid compound

9. Which phrase best describes what is inside the box?
   a. Homogeneous mixture of elements
   b. Homogeneous mixture of compounds
   c. Homogeneous mixture of an element and a compound
   d. Heterogeneous mixture of an element and a compound

10. How many substances are in this box?
    a. 1
    b. 2
    c. 3
    d. 4

11. Which phrase best describes what is inside the box?
    a. Gaseous element
    b. Gaseous compound
    c. Homogeneous mixture
    d. Heterogeneous mixture

12. Which phrase best describes what is inside the box?
    a. Pure element
    b. Pure compound
    c. Homogeneous mixture
    d. Heterogeneous mixture

13. Which phrase best describes what is inside the box?
    a. Homogeneous mixture of an element and a compound
    b. Heterogeneous mixture of an element and a compound
    c. Mixture of three elements
    d. Mixture of a liquid compound and a solid element

14. Which phrase best describes what is inside the box?
    a. Homogeneous mixture of two elements
    b. Homogeneous mixture of two compounds
    c. Heterogeneous mixture of two elements
    d. Heterogeneous mixture of two compounds
15. Which phrase best describes what is inside the box?
   a. Homogeneous mixture of two elements
   b. Homogeneous mixture of two compounds
   c. Heterogeneous mixture of two elements
   d. Heterogeneous mixture of two compounds

16. Which phrase best describes what is inside the box?
   a. Homogeneous mixture of an element and a compound
   b. Heterogeneous mixture of an element and a compound
   c. Mixture of two elements
   d. Mixture of a liquid compound and a gaseous element

17. How many substances are in this box?
   a. 1
   b. 2
   c. 3
   d. 4

18. Note the arrow to show particle movement and a physical change of matter. What word best describes this change?
   a. Melting
   b. Freezing
   c. Condensation
   d. Evaporation

19. Note the arrow to show particle movement and a physical change of matter. What word best describes this change?
   a. Melting
   b. Freezing
   c. Condensation
   d. Evaporation
   e. Sublimation
   f. Deposition

20. Note the arrow to show particle movement and a physical change of matter. What word best describes this change?
   a. Melting
   b. Freezing
   c. Condensation
   d. Evaporation
   e. Sublimation
   f. Deposition
21. Note the arrow to show particle movement and a physical change of matter. What word best describes this change?
   a. Melting
   b. Freezing
   c. Condensation
   d. Evaporation
   e. Sublimation
   f. Deposition

22. Note the arrow to show particle movement and a physical change of matter. What word best describes this change?
   a. Melting
   b. Freezing
   c. Condensation
   d. Evaporation
   e. Sublimation
   f. Deposition