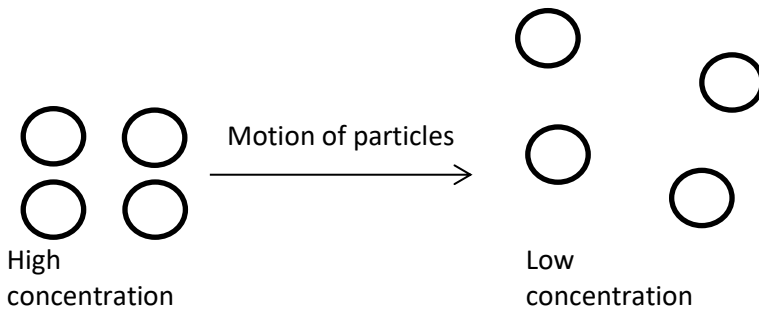


Particle model Test

CHOOSE ONLY A, B, C OF D

QUESTION 1:

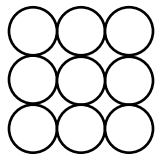
1.1) Which process presents particles in a liquid?



- A.) Melts
- B.) Diffusion.
- C.) Evaporation.
- D.) Condensation.

(2)

1.2) in what state is the bottom matter and how does the particles move?



- A.) Liquid and particles collides fiercely.
- B.) Solid and particles vibrates.
- C.) Gas and particles does not collide.
- D.) none of the above

(2)

1.3) Three diagrams are proposed. The first diagrams particles mass is 2x than volume(V). The second diagrams mass is half of the first diagrams mass than volume. The third diagrams mass is half the second diagrams mass than volume. Which diagrams density is $\frac{0,5 x}{V}$?

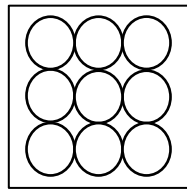


Diagram 1

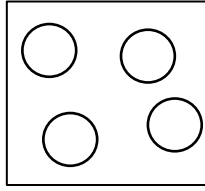


Diagram 2

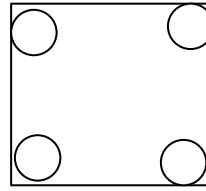
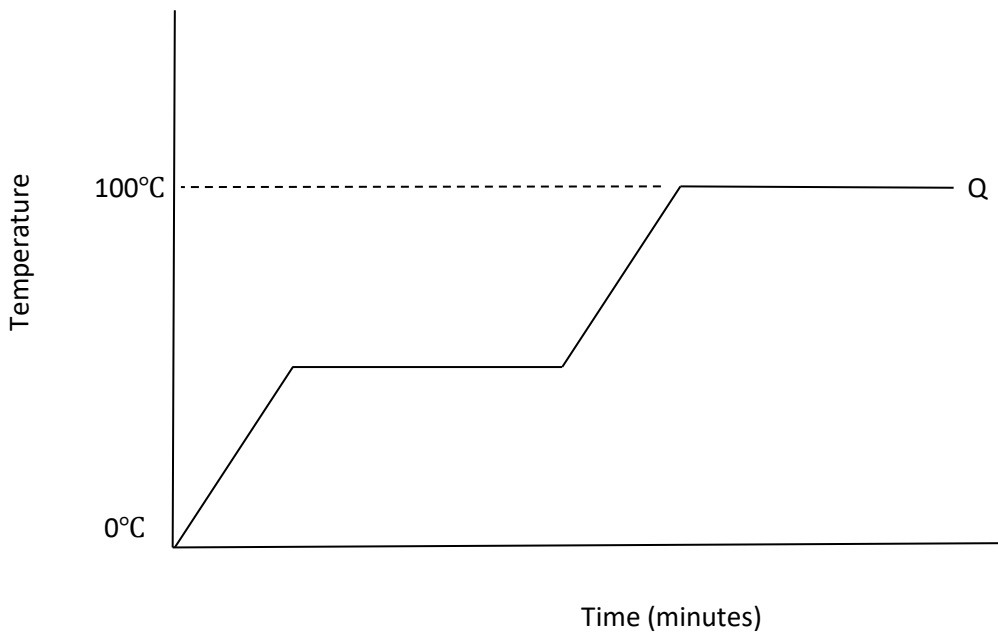


Diagram 3

- A.) Diagram 1.
- B.) Diagram 2.
- C.) Diagram 3.
- D.) None of the above

(2)

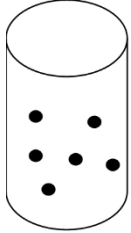
1.4) Which phase of water is represented by Point Q?



- A.) Gas Phase.
- B.) Solid.
- C.) Liquid.
- D.) None of the above.

(2)

1.5) A certain substance expands. The amount of particles x. What is the number of particles after expansion?



- A.) x.
- B.) 2x.
- C.) 3x.
- D.) 4x.

(2)

QUESTION 2:

2.1) Classify the following substances as solids, liquids or a gas.

2.1.1) A toothbrush.

2.1.2) Oxygen (at room temperature).

2.1.3) Table salt.

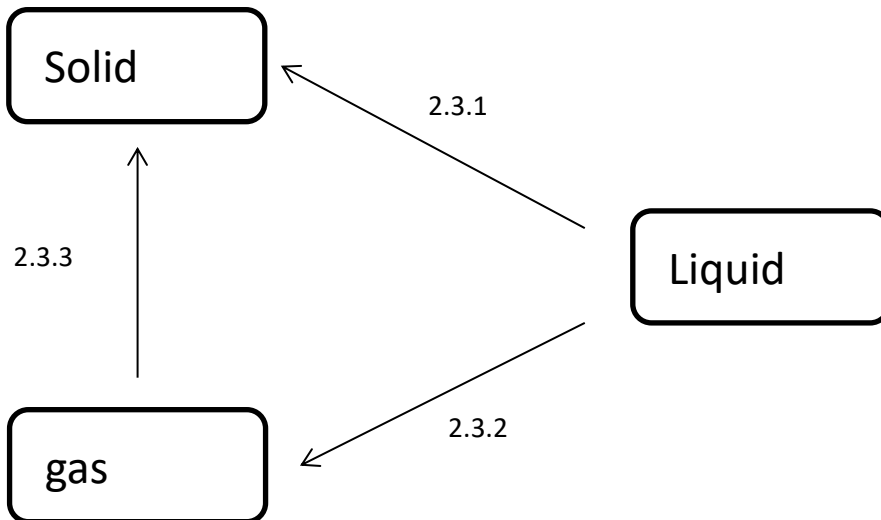
2.1.4) carbon dioxide

(4)

2.2) Which substances densities will be the smallest?

(2)

2.3) Complete the following by just pointing the phase change to the arrows.



(3)

QUESTION 3:

3.1) Tabulate the differences between the three phases and the types of forces between the particles. (5)

3.2) Consider the following container of particles. Gas is now pumped into the container. Describe what happens to the number of particles and the pressure in the container. (3)

