**The National Orthodox School /Shmaisani**

**Subject: Chemistry**

**Name: Joseph kfouf Topic: States of matter**

**Date: Grade-Section: 6CS- E**



Starters

* Use the particle model to describe solid, liquids and gases and to explain the properties of solids and liquids.
* Draw particle diagrams of solids and gases to model the arrangement of particles in the different states of matter.

Main course

**CHOOSE ONE DISH**

* Describe the processes of freezing and melting using the particle model and relate the processes to changes in temperature. (write between 50-70 words)
* Make a table and write the difference between boiling and evaporation.

Dessert

**CHOOSE ONE DISH**

* Draw the process of water cycle.
* Draw a diagram that shows the changes in states and write the names of the processes on the arrows. (be creative)

|  |  |  |  |
| --- | --- | --- | --- |
| Property | solids | liquids | gas |
| Movement of the particles | They vibrate in their place | They slide over each other | They are free to move |
| Forces between the particles | Very strong forces of attraction between the particles | Strong forces of attraction but less than in solids | Weak forces of attraction  |
| Arrangement of particles | They are tightly packed and in a pattern | They are arrange randomly  | Randomly arranged |
| Shape and volume  | They have fixed shape and volume  | They have fixed volume but not shape | They have no fixed shape and volume |
| Can be compressed or no | Can be compressed a little bit | Can be compressed a little bit | Can be compressed |
| Can flow | Can not | Can flow and take the shape of the bottom of the container | Can flow and take the shape of the container |
|  |  |  |  |

|  |  |
| --- | --- |
| Boiling | Evaporation |
| Bubbles form | Bubbles do not form |
| Happens at a specific temperature | Happens at any temperature |
| Needs external source of thermal energy | The surrounding is the source of thermal energy  |
| Happens to all the molecules  | Happens to the top surface molecules |
| The object has the same temperature at the boiling point | The object becomes cooler after evaporation |

evaporation



melting

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condensation

freezing