**The National Orthodox School /Shmaisani**

**Subject: Chemistry**

**Name: Christina Topic: States of matter**

**Date: 23/9/2022 Grade-Section: 6CS- all sections**



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)

**Solid:**

The particles in a solid are held together strongly. The spaces between the particles are very small. They have a fixed shape and a fixed volume the particles vibrate back and forth but remain in their fixed positions.

**Liquid:**

The particles in a liquid are separated by spaces that are large enough to allow the particles to slide past each other. A takes the shape of its container because liquid has no fixed shape

**Gas**:

The particles in a gas do not have any particular arrangement and there are very, very weak forces between them. Therefore, the particles in a gas can easily move around and fill the shape of the container they are in, they have no fixed shape.

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| **process** | **Change of state** | **Temperature** | **How Particles leave the liquid** |
| Evaporation | From liquid to gas | Happens at any temperature | Particles leave the liquid surface |
| Boiling | From liquid to gas | Happens at a boiling point | Bubbles of the substance in the gas state form throughout the liquid; the bubbles rise to the surface and escape |

