

WELCOME TO THE ONLINE CLASS

SESSION NO.: 4

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 7

CHAPTER NAME: ROCKS AND MINERALS

**SUB TOPIC: IGNEOUS ROCKS-GRANITE, PUMICE AND
OBSIDIAN**

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

- Discuss about the rocks based on their formation.
- Understand the formation of igneous rocks.
- Identify the different kinds of igneous rocks.

RECAPITULATION

- **What are rocks made up of?**
- **What are the different layers of the earth?**
- **Name the different types of rocks based on their formation.**
- **Define minerals.**

IGNEOUS ROCKS

- Igneous rocks are the base of all forms of land.
- The word igneous is derived from a Latin word 'ignis' meaning fire.



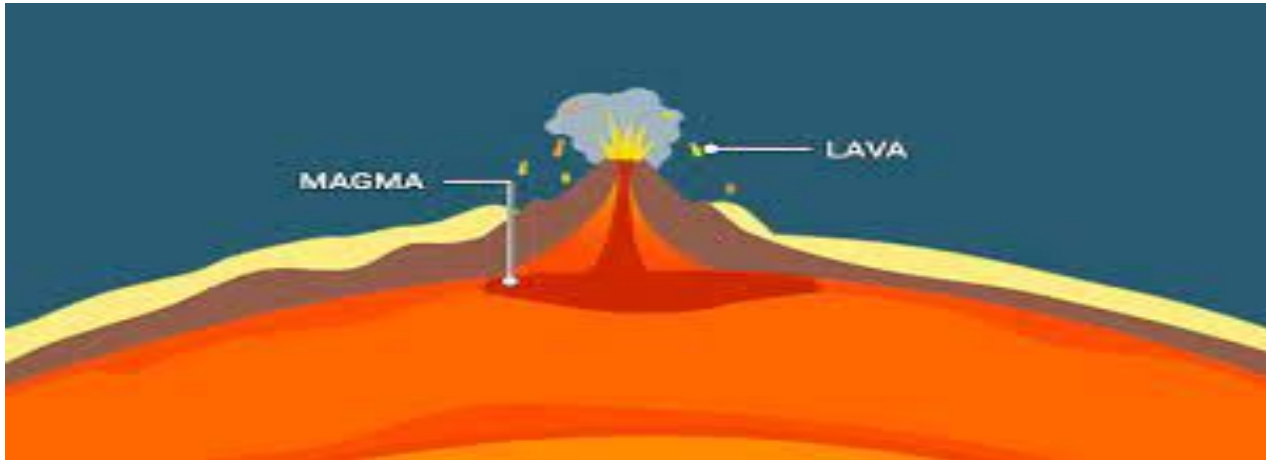
FORMATION OF IGNEOUS ROCKS

- Igneous rocks are formed by the cooling and hardening of hot liquid rock.
- The liquid rock is pushed upward by the pressure of other rocks.
- Some molten rocks cools and hardens below the surface of the earth while some flows out and then hardens to form igneous rock.



MAGMA AND LAVA

- The hot molten rocks that are present inside the earth is called magma.
- The hot molten rocks that flows out to the surface of the earth is called lava.



TYPES OF IGNEOUS ROCKS

Type of igneous rocks formed depends on the kind of mineral the magma contains and size of the mineral particles.



Granite



Pumice



Obsidian

GRANITE

- It is the most common igneous rock.
- Quartz, feldspar and mica are the minerals found in granite.
- Granite comes in grey or pink colour depending on the feldspar.
- It is used for making buildings, statues and streets.



PUMICE

- It is light in colour.
- It has many holes and pockets.
- It is light grey or cream colour.
- Dentists use powdered pumice for polishing our teeth.
- It is also used as a scrubber.



OBSIDIAN

- It looks like black glass.
- It is used to make cutting tool because of its sharp edges.
- It is used to make jewellery as well.



SUMMARY

- **Igneous rocks are formed by the cooling of magma.**
- **Granite, pumice and obsidian are the different types of igneous rocks.**
- **Granite is grey and pink and used to make building, statues,etc.**
- **Pumice has many holes used as scrubber,etc.**
- **Obsidian is glassy black and used to make jewellery,etc.**

READY FOR A
QUIZ ?

1. Rock that is the base of all landform.

Ans: Igneous rock

2. Which type of igneous rock contain minerals like quartzite, mica and feldspar?

Ans: Granite

3. The type of igneous rock that looks like black glass.

Ans: Obsidian

HOMework

- **Do the questions A and B in your notebook.**

LEARNING OUTCOME

The learner will be able to:

- **Discuss about the rocks based on their formation.**
- **Understand the formation of igneous rocks.**
- **Identify the different kinds of igneous rocks.**

THANKING YOU
ODM EDUCATIONAL GROUP