

SESSION NO.: 5

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 7

CHAPTER NAME: ROCKS AND MINERALS

**SUB TOPIC: METAMORPHIC ROCKS- SLATE, GNEISS,
MARBLE, QUARTZITE**

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

To enable the learner to:

- **Formation of metamorphic rocks**
- **Identify the different types of metamorphic rocks**
- **Know uses of these rocks**

RECAPITULATION

- What do you call the remains or traces of ancient life that have been preserved by natural processes?
- Name the sedimentary rock that has uneven texture.
- Calcite is a mineral which is found in _____.
- Which rock is used to separate pure metals from their ores?

METAMORPHIC ROCKS

- Meta means 'change' and morphos means 'form'.
- Metamorphic rocks means the existing rock undergoes 'changes in form' to form new rocks.
- Most metamorphic rocks were once either igneous or sedimentary.



FORMATION OF METAMORPHIC ROCKS

- Tons and tons of pressure, which favours heat build-up, changed them to metamorphic rocks.
- In some rocks the minerals are broken into smaller ones, while in others the minerals are stretched into flat particles.



TYPES OF METAMORPHIC ROCKS

There are various types of metamorphic rocks. They are:



Slate



Gneiss



Marble



Quartzite

SLATE



Shale



Slate

- Slate is made from shale.
- It is used to make slates and blackboards.





Granite

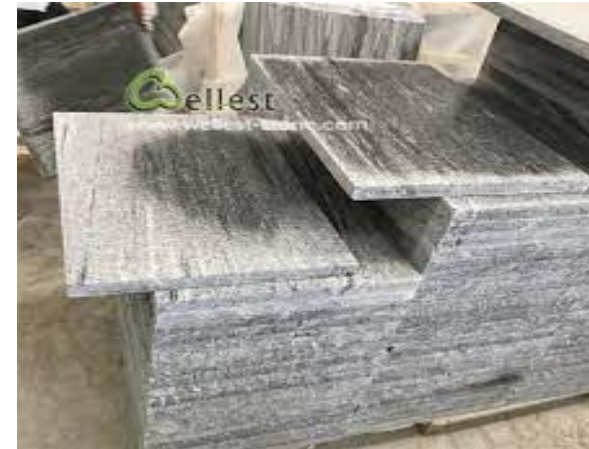


GNEISS



Gneiss

- **Granite changes to form gneiss.**
- **It has light and dark bands.**
- **It is used to make flooring, interior decoration, etc.**



MARBLE



Limestone



Marble

- **Marble is formed from limestone.**
- **It is found in different colours.**
- **It is used to make statues and buildings.**



QUARTZITE



Sandstone



Quartzite

- Sandstone undergoes changes to form quartzite.
- It is used for making statues, etc.



SUMMARY

- **Metamorphic rocks are formed from the preexisting rocks.**
- **Slate, gneiss, marble and quartzite are the various types of metamorphic rocks.**
- **Slate is used to make slates and blackboards.**
- **Gneiss is used to make interior decoration.**
- **Statues and buildings can be made from marble.**
- **Statues are also made from quartzite.**

READY FOR A
QUIZ ?

1. Taj Mahal is made of _____.

Ans: Marble

2. A rock used to make blackboards.

Ans: Slate

3. Metamorphic rock formed from granite.

Ans: Gneiss

4. A rock used to make statues.

Ans: Quartzite, marble

HOMEWORK

Do the oral Q& A of page no. 61 in your notebook.

C. Write short answer.

1. What are rocks made up of?

Ans:Rocks are made up of minerals.

2. What are minerals?

Ans:Minerals are underground natural non- living substances found in the rocks.

3. What is slate commonly used for?

Ans:Slate is commonly used for making slates and blackboards.

LEARNING OUTCOME

The learner will be able to:

- **Formation of metamorphic rocks**
- **Identify the different types of metamorphic rocks**
- **Know uses of these rocks**

THANKING YOU
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