

SESSION NO.: 7

CLASS: 5

SUBJECT: SCIENCE

CHAPTER NUMBER: 7

CHAPTER NAME: ROCKS AND MINERALS

SUB TOPIC: COAL AND PETROLEUM CONT...

CHANGING YOUR TOMORROW

RECAPITULATION

- **What are the various types of minerals?**
- **Name two valuable underground resources.**
- **Name some precious metals used for making jewellery.**
- **What is the ore of copper known as?**
- **Specify anyone use of metals.**

NON-METALLIC MINERALS

- Coal and petroleum are valuable underground resources.
- They provide us with energy.



Coal



Petroleum

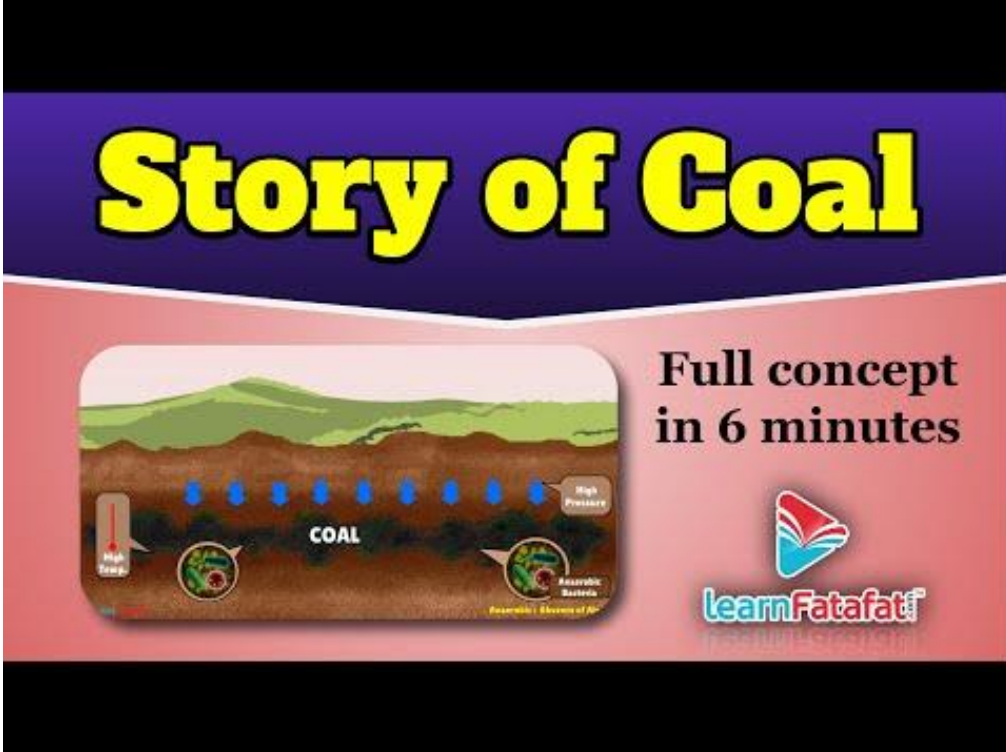
COAL

- Coal is a type of sedimentary rock which is the most valuable mineral stored in the earth.
- It has been used as a fuel for hundreds of years.
- More than one third of the world's coal is found in our continent Asia.




FORMATION OF COAL

- Millions of years ago land was low lying and covered with thick swampy forest.
- As plants died, they fell into the swamp and begin to decay.
- New vegetation press the dead plants to the bottom.
- Due to extreme pressure the vegetation matter changed into peat, lignite and coal.



Story of Coal

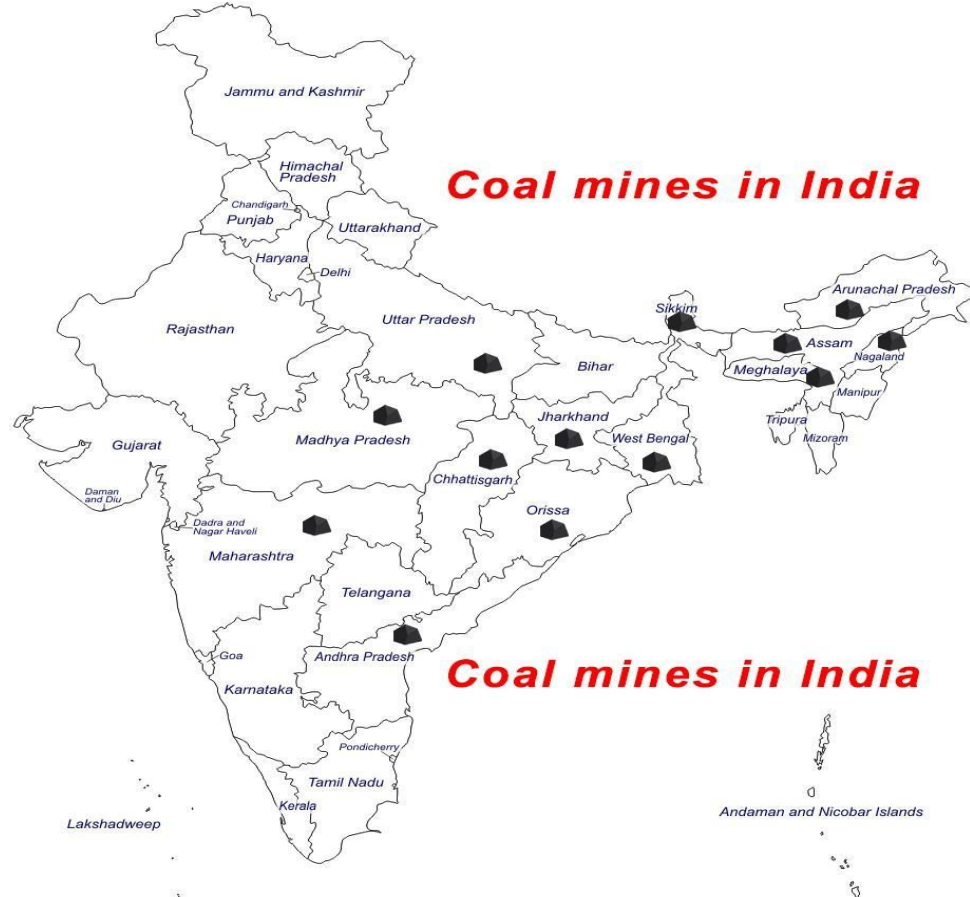
Full concept in 6 minutes

 LearnFatafat

The infographic illustrates the process of coal formation. It shows a cross-section of the earth with a swampy forest on top. Dead plants fall into the swamp and decay. New vegetation presses the dead plants to the bottom. The process is labeled 'COAL' and 'High Pressure'. The infographic also includes a 'High Pressure' label and a 'Microscopic Structure of Coal' label.

PLACES WHERE COAL MINES ARE FOUND

- In India, coal mines are situated in:
 - Sohagpur in Madhya Pradesh,
 - Dhanbad in Jharkhand,
 - Raniganj in West Bengal,
 - Nayveli in Tamil Nadu
 - Singareni in Telangana.



USES OF COAL



Cooking



Heating homes and buildings



Steam engine



Thermal power plants



Blast furnace in steel industry

PETROLEUM

- Petroleum is another valuable underground resource.
- Half of the energy used in the world today comes from petroleum.
- It is a kind of fossil fuel.
- Fossil fuels are the fuels formed from the dead and decaying parts of animals or plants breathe in the soil.



SUMMARY

- **Coal and petroleum are valuable underground resources.**
- **They are also known as fossil fuels.**
- **Fossil fuels are the fuel that are formed from the dead and decaying parts of animals and plants buried in the soil.**
- **Coal is formed from vegetable matter.**
- **Coal is used as a fuel in a variety of places like cooking, steam engines, etc.**

READY FOR A
QUIZ ?

1. _____ is formed from vegetable matter.

Ans:Coal

2. Name a place in India where coal mines are situated.

Ans:

- **Sohagpur in Madhya Pradesh,**
- **Dhanbad in Jharkhand,**
- **Raniganj in West Bengal,**
- **Nayveli in Tamil Nadu**
- **Singareni in Telangana.**

3. Specify any one use of coal as a fuel.

Ans:Coal is used:

- **for cooking**
- **for heating homes and buildings**
- **for producing electricity in power plants**
- **in steam engines**
- **in blast furnace in the steel industry (any one)**

4. Is coal a fossil fuel?

Ans: Yes

HOMEWORK

Do the oral Q & A of page no. 62 in your notebook.

D. Answer these questions.

1. How are igneous rocks formed?

Ans: Igneous rocks are formed by the cooling and hardening of hot liquid rock material.

- The hot liquid rock that lies in huge underground pockets of the earth is called magma.**
- The hot material is pushed upward by the pressure of other rocks.**
- Some of it cools and hardens below the surface of the earth while some flows out on the Earth's surface and then hardens to form igneous rocks.**
- The magma that reaches the surface is called lava.**

LEARNING OUTCOME

The learner will be able to:

- **Know about the types of non-metallic minerals.**
- **Understand the formation of coal**
- **Know about the places which have coal mines in India**
- **Understand the uses of coal.**

THANKING YOU
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