

Grade 5

Chapter Worksheet

CHAPTER 1 – ROCKS AND MINERALS

Choose the correct option:

1. The pyramids of Giza are made entirely from _____.
(Pumice stone, obsidian, conglomerate, limestone)
2. _____ is a form of stone that looks like a sponge with holes in it.
(Granite, sandstone, pumice, basalt)
3. _____ is a glassy igneous rock.
(Shale, granite, obsidian, marble)
4. _____ is used for the manufacturing of roof tiles.
(Shale, gneiss, slate, quartzite)
5. Which of these is a fuel?
(Granite, marble, coal, chalk)

Match the following:

- | | |
|---------------------|------------|
| 6. Igneous rocks | i. mica |
| 7. Sedimentary rock | ii. magma |
| 8. Limestone | iii. chalk |
| 9. Shale | iv. fossil |
| 10. Gneiss | v. brick |

True or False:

11. Mica is used for making cosmetic products.
12. Limestone is primarily composed of calcite, which is formed from the dead remains of trees.
13. Shale is a rough sedimentary rock used to make bricks, tiles, and cement.

14. Coal is a type of igneous rock.
15. Burning fossil fuels such as coal and petroleum pollutes the environment.

Answer in one word:

16. Rocks that contain metal that can be extracted.
17. A rock formed by the metamorphosis of granite.
18. Preserved materials or impressions in sedimentary rocks.
19. A soft form of limestone that is brittle and powdery.
20. Molten rocks inside the earth.

Classify the following:

21. Classify the following into igneous rocks, sedimentary rocks, metamorphic rocks, gemstones, and fuels.

Petroleum, zircon, ruby, limestone, shale, slate, pumice, basalt, topaz, diamond, coal, sandstone, conglomerate, gneiss, marble, obsidian, quartzite, emerald, sapphire, granite

Answer the following:

22. Why does a pumice stone look like a sponge?
23. Identify the type of rock based on the description given:
 - a. Igneous rock that is formed when magma cools slowly beneath the surface of the earth.
 - b. An igneous rock that is used by humans in ancient times for making tools.
24. What are the three main minerals found in granite? Do you think it imparts colour to the granite? If so, what are they?
25. Write one use of each of the following types of igneous rocks:
 - a. Granite -
 - b. Basalt -
 - c. Obsidian -
26. Explain briefly how sedimentary rocks are formed.
27. How do fossils help us to learn about the living beings in the ancient period?
28. Name any two limestone caves in India.

29. Noah is a student of grade 5. Her father owns a construction company. Noah upon reading about rocks went to her father to ask him some questions. Can you help her father to answer the following questions:
- Is it true that we can make cement from rocks? Which are the rocks used for it?
 - Can you tell me where are sandstones used in construction?
 - Marble and granite are very beautiful to see. Are they used for building homes? Is there any other use of them other than in construction?
30. Name the rock which is useful for both a roofer and a teacher. Also, write what type of rock it is.
31. Write any two sandstone buildings in India.
32. Where do we use metals in our daily lives?
33. "Gemstones are found in rocks in the form of different crystals" – Is this statement true? Name some gemstones that are found in rocks.
- 34.



The picture given above is of a diamond found in a rock.

Answer the following questions based on this:

- In what type of rocks are diamonds found naturally?
 - The diamond given in the picture is different from a diamond found in jewelry. How is it processed to make ornaments?
35. What are fossil fuels? Give examples.
36. Represent the formation of coal in a flow diagram with the help of hints given below(hints in jumbled order):
- Formation of coal from lignite.
 - Dead plants buried in the swamp.
 - Several layers of mud and sedimentary rocks are deposited over the plant debris (dead plant matter) to form peat.

d. High pressure and temperature applied for a long time turn peat into lignite coal.

37. Write the forms of coal used in the following situations:

a. To make roads

b. Used as a fuel in industries

38. Write any three petroleum products and their uses.

39. Do you think petroleum will get exhausted in time? If yes, why?

40. Is it safe for the environment to use fossil fuels without a limit?

How will it affect us?