

Nova's Rock and Fossil Adventure

Learning objective: To identify and describe the properties of rocks and understand how fossils are formed.

Join Nova the barn owl on an exploration of the earth! Read each question carefully and write your answers in the spaces provided.

Answer Key: 1. A (Igneous), 2. True, 3. False (Fossils are found in sedimentary rock), 4. Metamorphic, 5. Sedimentary, 6. False (Rocks are solid materials), 7. Permeable, 8. True, 9. Hard, 10. Magma.

Word bank: Sedimentary · Igneous · Metamorphic · Fossil · Hard · Permeable · Soil

1. 1. Which type of rock is formed when molten magma cools down? A) Igneous* B) Sedimentary C) Metamorphic D) Chalk (1 mark)

2. 2. True or False: All rocks are natural materials found on Earth. (1 mark)

3. 3. True or False: Fossils are most commonly found in igneous rocks. (1 mark)

4. 4. Which type of rock is formed when existing rocks are changed by heat and pressure? (1 mark)

5. 5. Which rock type is often made of layers of sand, mud, and pebbles? A) Slate B) Granite C) Sedimentary* D) Marble (1 mark)

6. 6. True or False: Rocks are soft and can easily be squashed into different shapes. (1 mark)

7. 7. What do we call a rock that allows water to pass through it? A) Impermeable B) Permeable* C) Hard D) Shiny (1 mark)

8. 8. True or False: Soil is made up of tiny pieces of rock mixed with decayed plants and animals. (1 mark)

9. 9. Diamond is an example of a very _____ rock. (Fill in the blank: Hard or Soft) (1 mark)

10. 10. What is the name of the hot, liquid rock found deep inside the Earth? A) Lava B) Magma* C) Dust D) Sand (1 mark)

Draw: Draw a picture of a sedimentary rock showing the different layers Nova found on her journey.



Extension challenge: Nova wants to build a rock collection! Imagine you found three different rocks in your garden. Write a short paragraph describing how they might look, feel, and smell different from each other.