

Nova's Rock-Solid Discovery Quiz

Learning objective: To identify and describe the formation of igneous, sedimentary, and metamorphic rocks and understand the process of the rock cycle.

Help Nova the owl explore the Earth's crust! Answer the following 10 questions to test your knowledge of geology. Write your answers clearly.

Answer Key: 1. A (Igneous), 2. True, 3. Sedimentary, 4. C (Heat and pressure), 5. False (It is a slow process), 6. Igneous, 7. Erosion, 8. B (Magma), 9. True, 10. Sedimentary. Each correct answer is worth 1 mark.

Word bank: Igneous · Sedimentary · Metamorphic · Magma · Erosion · Pressure · Fossils · Weathering

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

2. 2. True or False: Sedimentary rocks are often formed in layers over millions of years. (1 mark)

3. 3. In which type of rock are you most likely to find fossils? (1 mark)

4. 4. How are metamorphic rocks created? A) By freezing water B) By cooling lava C) By heat and pressure* D) By wind erosion (1 mark)

5. 5. True or False: The rock cycle happens in just a few days. (1 mark)

6. 6. Is granite an igneous, sedimentary, or metamorphic rock? (1 mark)

7. 7. What is the process called when wind and water wear away rock surfaces? (1 mark)

8. 8. Where does magma come from? A) The atmosphere B) Under the Earth's crust* C) The ocean D) The clouds (1 mark)

9. 9. True or False: All rocks are made of minerals. (1 mark)

10. 10. Which rock type is formed from small particles called sediment that have been compressed? (1 mark)

Draw: Draw a diagram of the rock cycle showing how magma turns into igneous rock, which then weathers into sediment, and eventually becomes metamorphic rock.



Extension challenge: Nova the owl wants to start a collection! If you bought 3 different rock samples for £1.50 each, and a display box for £4.25, how much would you spend in total? Show your maths working out.