



# Rocks and Minerals

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 4

## Part A: Fill in the Blank

Write the missing word or number on each line.

- Basalt is the most common \_\_\_\_\_ rock on Earth's surface.
- Gneiss is a metamorphic rock that has light and dark \_\_\_\_\_ of minerals.
- Sedimentary rocks form in layers called \_\_\_\_\_.
- When dissolved minerals fill in spaces between sediment grains, the process is called \_\_\_\_\_.
- A fingernail has a hardness of about \_\_\_\_\_ on the Mohs scale.
- Mica is a mineral that splits into thin, flat \_\_\_\_\_.
- Fossils in sedimentary rock layers help scientists figure out the \_\_\_\_\_ of the rock.
- When any type of rock melts completely, it becomes \_\_\_\_\_.
- A copper penny can scratch a mineral with a hardness less than \_\_\_\_\_.

## Part B: Matching

Match each item on the left to the correct answer on the right.

- Match each rock to its correct type.

granite	→		igneous rock with small crystals from fast cooling
limestone	→		sedimentary rock made from shells and marine remains
marble	→		igneous rock with large crystals from slow cooling
basalt	→		metamorphic rock

## Answer Key · Rocks and Minerals · Grade: Grade 4

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### Part A: Fill in the Blank

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Write the missing word or number on each line.

1. Basalt is the most common igneous rock on Earth's surface.
2. Gneiss is a metamorphic rock that has light and dark bands of minerals.
3. Sedimentary rocks form in layers called strata .
4. When dissolved minerals fill in spaces between sediment grains, the process is called cementation .
5. A fingernail has a hardness of about 2.5 on the Mohs scale.
6. Mica is a mineral that splits into thin, flat sheets .
7. Fossils in sedimentary rock layers help scientists figure out the age of the rock.
8. When any type of rock melts completely, it becomes magma .
9. A copper penny can scratch a mineral with a hardness less than 3 .

### Part B: Matching

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Match each item on the left to the correct answer on the right.

1. Match each rock to its correct type.

granite	→ <u>igneous rock with large crystals from slow cooling</u>	igneous rock with small crystals from fast cooling
limestone	→ <u>sedimentary rock made from shells and marine remains</u>	sedimentary rock made from shells and marine remains
marble	→ <u>metamorphic rock formed from heated limestone</u>	igneous rock with large crystals from slow cooling
basalt		metamorphic rock