

Understanding Your Environment: Bedrock Geology Activity 3 - Metamorphic Rocks and Your Community

This investigation will help you to:

- Investigate - Part B: Evidence of Igneous Rocks in Your Community
- Understanding and Applying What You Have Learned
- Preparing for the Chapter Challenge
- Inquiring Further
- General information related to this activity:

Investigate - Part B: Evidence of Igneous Rocks in Your Community

Examine the geologic map of Ohio.

- Geologic Map of Ohio
- Generalized column of bedrock units in Ohio

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Understanding and Applying What You Have Learned

Examine the legend of a geologic map of Ohio and your list of metamorphic rocks found in the region covered by the map.

- Geologic Map of Ohio
- Generalized column of bedrock units in Ohio

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Preparing for the Chapter Challenge

Write a one or two paragraph description about the events and evidence for metamorphism in your local area.

- Geologic Map of Ohio
- Generalized column of bedrock units in Ohio

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Inquiring Further

Investigate how hydrothermal alteration leads to the formation of deposits of valuable minerals like gold, silver, and copper.

- WORD document on Hydrothermal Processes
- Effects of metamorphism on ore deposits
- Fact sheet on gold

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General information related to this activity:

Formation of Metamorphic Rocks

- [Metamorphic Rocks-Physical Geology - TERC](#)
This is an overview of how metamorphic rocks form.

Deformation in Metamorphism

- [Metamorphism and Metamorphic Rocks - Tulane University](#)
Find out happens when temperature and pressure deform a rock. Description includes clear black and white diagrams to support explanation.

Foliation in Metamorphic Rocks

- [Metamorphic Atlas of Igneous and Metamorphic Rocks, Minerals and Textures -California State Polytechnic University](#)
Read the definitions of foliated and non-foliated metamorphic rocks. This site also has a helpful chart to demonstrate the different type of foliations.

The Protoliths of Metamorphic Rocks

- Use this table to find out the protoliths of different metamorphic rocks.

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