

Junior Explorers Challenge

ACTIVITY SHEET

Mission 1: Dig Into the Details

Read the story Nova Scotia: Canada's first mining frontier and use information from the text to fill in the missing words.

79 Au Gold

WORD BANK

29 Cu Copper

Cape Breton	Copper	Lithium	Sedimentary
Collieries	Gold	Plants	Steam Engines

3 Li Lithium

1. Coal is a type of _____ rock formed from ancient plant material buried and transformed by heat and pressure over millions of years.
2. Coal formed from ancient _____ that accumulated in wetlands millions of years ago.
3. In 1672, French explorer Nicolas Denys reported seeing coal seams along the shores of _____.
4. In the 1820s, the General Mining Association introduced _____ and modern mining methods to Nova Scotia.
5. Coal mines are also known as _____, and entire communities grew around them.
6. Nova Scotia's gold rush began at Mooseland in 1860, making _____ an important part of the province's mining history.
7. Mining at Coxheath near Sydney included the extraction of _____, a metal widely used in electrical wiring.
8. Today, exploration companies are searching for minerals such as _____, which is an important component in rechargeable batteries.



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Mission 2: The Next Mining Chapter

Read the story Nova Scotia: Canada's first mining frontier and use research and imagination to become a junior geologist and think about the future of mining

Instructions

Imagine that you are a junior geologist, and your next mission is to think about the future of mining in Nova Scotia. Choose a mineral mentioned in the story, such as **gold, lithium, tin, antimony** or a **rare-earth element,** and use research tools to complete the following questions!

1 **The mineral I have chosen to explore is:** _____

2 **This mineral can be used for:** _____

3 **What are three physical properties of this mineral?** ***(For Example: Colour, lustre, streak, hardness, conductivity, magnetism)***

1. _____
2. _____
3. _____

4 **One question I would ask a geologist is:** _____

_____