

Chocolate Chip Fossil Fuels Mining

Aim:

To show how Mining for fossil fuels affects the Earth and Habitats.

You will need:



1 chocolate
chip Biscuit



2-5
toothpicks



plate



water



activity
sheet

Steps:

1. Wash your hands.
2. Place your biscuit on a plate.
3. Use the activity sheet and complete the “before” sections. Remember that the biscuit represents bedrock and dirt below the ground. The chocolate chips are the coal deposits.
4. Use your toothpicks to mine (remove) as much of that coal as possible in 5 minutes. Put these pieces aside and count them when the time is up.
5. Complete the “after” sections of the activity sheet and answer the questions.

Questions:

- Could your habitat or biscuit return to its original state after it has been mined? Why or why not?
- Compare your biscuit habitat with another person's in your class. Which habitat was easier to mine and why?
- What do you think the plants and animals from your habitat would have to say about the mining?
- Will the same plants and animals be able to live in your habitat after the mining?
- Did the chocolate move or get onto other parts of the biscuit? What would this mean in real life?
- What problems could be created by completely stopping coal mining?
- What makes coal a renewable or non-renewable energy source?

Chocolate Chip Fossil Fuels Mining Activity Sheet

Draw your chocolate chip biscuit before and after mining.

Biscuit before Mining	Biscuit after Mining
Coal (Chocolate Chip) Amount	Coal (Chocolate Chip) Amount

Imagine your biscuit is a habitat. Draw a habitat over your biscuit and add natural features like animals and waterways. It could be the bush, desert or rainforest. Remember that the biscuit represents bedrock and dirt below ground.

Biscuit Before with My Imagined Habitat	My Imagined Habitat Biscuit After Mining