

The Price of Gold: Lithosphere Minerals & Downstream Effects



<https://www.youtube.com/watch?v=7V8NKbaWIXM>

1. The old mine mentioned in the video as the source of the spill was originally a gold mine. Gold is a metal and like all metals this means it is also a **mineral**.

a) What is the geological definition of a mineral?

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b) What are the four characteristics that we use to identify and classify different types of minerals?

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2. Colorado is known for its mountains and rivers that run down them. The rocks that form these mountains were compressed, twisted and heated up when the mountains were formed.

a) With this in mind what type of rocks do you expect to find in Colorado?

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b) What are the other two rock types and where can they be found?

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3. Chemical spills that leak or pour into river systems can have terrible effects on human communities along those rivers. The link below is a map of the St. Lawrence Seaway.



<http://www.canoe.ca/nfflotilla2000Images/map.jpg>

- a) If a similar accident were to occur near Montreal, which of the following communities would be affected by the chemical spill?

City/Town	Affected by Spill (Yes/No)
Quebec City	
Toronto	
Sept-Iles	
Trois-Rivieres	
Cornwall	
Valleyfield	

- b) Why were some of these locations affected while others weren't even though they're all located along the same body of water (the St. Lawrence Seaway)?

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