

Ore Minerals & Fossil Fuels

Use the mineral specimens provided by Schaub and a Chromebook to examine the following ore minerals. You will need to properly identify the first six on your own. Take your time and notice the differing densities and properties.

First 6 Minerals : Hematite/Sphalerite/Native Copper/Galena/Pyrite/Chalcopyrite

Specimen #	Luster	Colour	Streak	Cleavage or Fracture If Cleavage Number Angle		Special Properties (What do you notice?)	Valuable Metals	Chemical Name / Chemical Formula
1								
2								
3								
4								
5								
6								
7 Bornite								

8 Chromite								
9 Azurite								
10 Malachite								
11 Graphite								
12 Bauxite								
13 Cassiterite								
14 Molybdenite								
15 Native Silver								
16 Gold (In quartz)								
Did you mess one up? Do it here...								

17 Magnetite								
18 Pentlandite								
19 Pyrrhotite								

Go look at the coal (any version) on the top shelf. What are 5 observations you notice?

1)

2)

3)

4)

5)

Go look at the oil sands on the top shelf. What are 5 observations you notice?

1)

2)

3)

4)

5)

Pick 4 metals (Minerals with economic value OK too) from the lists above and answer the following questions about them:

Metal: _____

Is it mined in Canada: _____

If yes, where: _____

If no, where in the world is it mined: _____

Cost per kg: _____

Amount mined per year: _____

Amount left on Earth: _____

5 things the metal (Mineral) is used for:

1)

2)

3)

4)

5)

One interesting fact you have discovered about this metal while doing this research:

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If yes, where: _____

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