




1. List the 3 types of rocks and give an example of each.

Type of rock	example
Sedimentary	limestone / sandstone
igneous	basalt
metamorphic	granite

2. List the 3 types of plate boundaries and give an example of the natural disaster/effect you would see at each one.

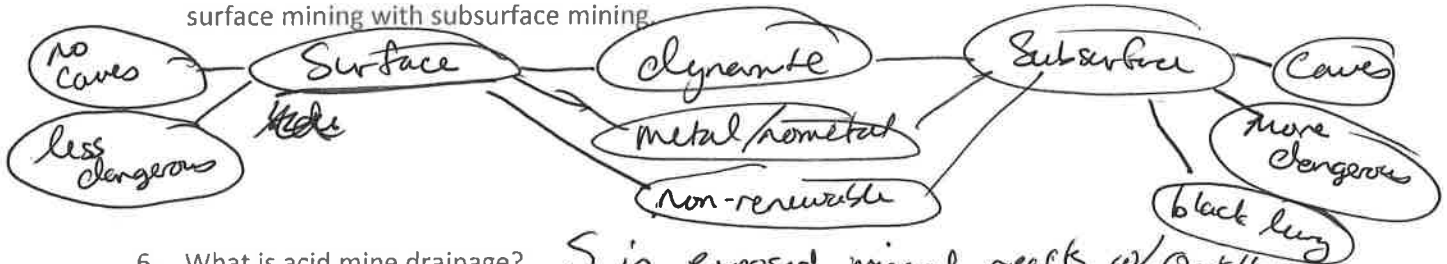
Plate boundary	Natural disaster/effect
convergent 	mountains (subduction = volcanoes)
divergent 	rifts / trenches
transform 	earthquakes

3. Give 3 examples of metal and 3 examples of non-metal minerals.

Metal	Non-metal
Copper	sand
Silver	gravel
Gold	fossil fuels (coal, oil, tar sands)

4. Describe the theory of plate tectonics. plates move on magma bc of convection currents (continent / ocean movement)

5. Create a double bubble with at least 3 comparisons in each section comparing and contrasting surface mining with subsurface mining.



6. What is acid mine drainage? S in exposed mineral reacts w/ O<sub>2</sub> + H<sub>2</sub>O → H<sub>2</sub>SO<sub>4</sub>. leaches metal ions into water

7. Describe the Surface Mining Control and Reclamation Act? Make land look way it did before mining

8. What compound makes up sand or dirt? SiO<sub>2</sub>  
 a. So then, what element is most abundant in the Earth's crust? O

9. List 4 environmental problems that are a result of mining.

- dust / PM<sub>2.5</sub>
- water pollution from H<sub>2</sub>SO<sub>4</sub> / particulates
- Habitat loss
- erosion

10. List 3 human health effects that can result from mining.

- black lung
- respiratory illness
- Cancer (carcinogens in processing)