

Guided Reading Chapter 16 Minerals and Mining

name: _____

Minerals and Mineral Resources

What is a Mineral?

What is a compound?

Native Elements?

- 1.
- 2.
- 3.

Ore Minerals:

Gang minerals:

Metallic minerals:

Nonmetallic minerals:

Formation of ore minerals

Hydrothermal solutions:

Evaporates:

Mineral Resources

Mineral _____ resources

Aluminum

Copper

Gold

Silicon

Titanium

Mineral Exploration and Mining

Mineral Exploration:

Subsurface mining: (def)

Longwall mining (description)

Used in removing?

Solution mining (description)

Used in removing?

Surface Mining: (def)

Open-pit mining: (description)

Used in removing?

Surface Coal Mining: (description)

Overburden

Steps in removing coal

- 1.
- 2.
- 3.
- 4.
- 5.

Quarrying: (description)

Used in removing?

Solar evaporation (description)

Used in removing?

Placer mining (description)

Used in removing?

Placer deposits

Dredging

Smelting (description)

Undersea mining (description)

Mining Regulations and Reclamation

Important consequences of mining

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Federal Laws that relate to mining and reclamation

- 1.
- 2.
- 3.
- 4.

Reclamation: (definition)

Surface Mining Control & Reclamation Act of 1977 (description)