



Rock and Mineral Resources Unit

Outline

- I. Properties
 - A. Examples: hardness, luster, fracture, magnetism
 - 1. Property = usefulness
- II. Mining
 - A. Mining Methods and Impacts
 - 1. Surface mining
 - a) ecosystem destruction
 - b) water pollution
 - c) health and safety
 - 2. Underground mining
 - a) land instability
 - b) water pollution
 - c) health and safety
 - B. Mitigation: Land Reclamation
 - 1. Conflict of interest
 - 2. Costs
 - 3. Standards and measures
- III. Metals
 - A. Availability and Access
 - 1. Examples: aluminum, tin, copper
 - B. Impacts
 - 1. (see *Mining*)
- IV. Smart Devices
 - A. Seventy-five metals and minerals, including lithium and cobalt
 - 1. Environmental impacts
 - 2. Human impacts