Bell Work
Obtain Raw Materials
Mining

Read pages 45-47 in Chapter 6 of the Manufacturing book
Obtaining Raw Materials

Mining
raw material –
  natural resources found in or on the earth or sea

industrial material –
  materials from which products are made
Where do industrial materials come from?
- raw materials

3 Ways Raw Materials are Obtained?
1. Mining
2. Drilling
3. Harvesting
mining –
digging the material from the earth by means of a hole or tunnel

What types of materials are mined?
- coal, copper, other ores

2 Mining Methods
1. open-pit mining - material is removed from earth’s surface
2. underground mining
3 Ways to Underground Mine:

1. shaft mining:
   - used for deeply buried deposits
   - vertical shafts are dug down and horizontal shafts are dug from them
2. drift mining:
- used when the mineral vein touches the surface
- tunnels are dug into the earth following the vein
3. slope mining:
   - used for shallow deposits
   - a sloping tunnel is dug down to the deposit