

## Minerals Cloze Notes

- The four basic states of matter are: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, & \_\_\_\_\_
- What are the smallest units of matter that retain unique characteristics? \_\_\_\_\_
- What substances are made of only 1 type of atom? \_\_\_\_\_
- What are compounds? \_\_\_\_\_ or more \_\_\_\_\_ combined to form a \_\_\_\_\_ substance
- Minerals are a type of compound. What makes them different from other compounds?
  - \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, & \_\_\_\_\_
- A rock is a solid \_\_\_\_\_ of \_\_\_\_\_ or more \_\_\_\_\_ (or other substances)
- Geologists have identified over \_\_\_\_\_ minerals, each with \_\_\_\_\_ properties
- Properties used to identify and classify minerals include:
  - Color: color of the \_\_\_\_\_
  - Streak: color of mineral's \_\_\_\_\_
  - Luster: how \_\_\_\_\_ reflects off mineral
  - Density: \_\_\_\_\_ over \_\_\_\_\_
  - Hardness: how hard is mineral, how easy is it to \_\_\_\_\_
  - Crystal system: what \_\_\_\_\_ are crystals of the mineral
  - Cleavage/fracture: how mineral \_\_\_\_\_
  - Special properties: flourescent, \_\_\_\_\_, reacts with \_\_\_\_\_, and more!
- Minerals can form from a hot solution of \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_
- A solution is a \_\_\_\_\_ with one substance \_\_\_\_\_ into another
- \_\_\_\_\_ is when a solution (of \_\_\_\_\_, \_\_\_\_\_, or \_\_\_\_\_) cools, minerals begin to form \_\_\_\_\_.
- Minerals can also form from water solutions by \_\_\_\_\_. Water evaporates, leaves mineral \_\_\_\_\_ behind
- Gemstones: Hard, colorful mineral with a \_\_\_\_\_ or \_\_\_\_\_ luster
  - Mostly for jewelry, but also for \_\_\_\_\_ parts and for \_\_\_\_\_
  - Gem: a \_\_\_\_\_ gemstone
- Metals: Solid, hard materials that are usually shiny. Metals are \_\_\_\_\_ (can be \_\_\_\_\_, \_\_\_\_\_, spun into \_\_\_\_\_), also often \_\_\_\_\_ to electricity and heat
- Minerals are also used for: \_\_\_\_\_
- Why is mining important to society? Without mining, we could not make all of the things we use that contain rocks and \_\_\_\_\_
- Why is mining \_\_\_\_\_?
  - \_\_\_\_\_ job for miners
  - \_\_\_\_\_ the environment, damages \_\_\_\_\_
  - Mining of \_\_\_\_\_ minerals encourages human rights abuses
- Ore: Rock that contains a useful \_\_\_\_\_ or other \_\_\_\_\_
- Prospecting: Searching for \_\_\_\_\_ deposits
- Mining: Removing ore from the \_\_\_\_\_
- Smelting: \_\_\_\_\_ useful minerals from the rock, usually by \_\_\_\_\_
- Alloy: A \_\_\_\_\_ solid mixture of two or more elements, at least one of which is a \_\_\_\_\_