**Guided Notes: Rocks and Mineral Properties**

Rocks and minerals have various \_\_\_\_\_\_\_\_\_\_\_ that determine their uses and influence human activity.

**Key Concepts:**

• Properties used to characterize minerals include \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_, luster, \_\_\_\_\_\_\_\_\_, cleavage, and fracture.

• Luster refers to how \_\_\_\_\_\_\_\_\_ interacts with the surface of a rock or mineral.

• Hardness is a mineral's ability to resist \_\_\_\_\_\_\_\_\_.

• Density is the ratio between a mineral's \_\_\_\_\_\_\_\_\_ and its \_\_\_\_\_\_\_\_\_.

• Magnetism describes how a mineral reacts when placed in a \_\_\_\_\_\_\_\_\_ field.

• The availability of rocks and minerals has shaped \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ throughout history.

• Mining booms can cause rapid \_\_\_\_\_\_\_\_\_ growth but may lead to \_\_\_\_\_\_\_\_\_ towns once resources are depleted.

• \_\_\_\_\_\_\_\_\_ sand has many uses due to its ability to withstand high pressures and absorb moisture.

• \_\_\_\_\_\_\_\_\_ is a key mineral used in fertilizers to support food production for a growing population.



**Real World Examples:**

1. Jewelry: Different rocks and minerals are used in jewelry because of their \_\_\_\_\_\_\_\_\_, which can be metallic, vitreous (glassy), or pearly.

2. Smartphones: Rare earth minerals are used in the production of \_\_\_\_\_\_\_\_\_ like smartphones and other electronic devices.

**Word Bank:**

properties

hardness

density

magnetism

light

scratching

mass

volume

magnetic

human activity

population

ghost

silica

phosphorous

luster

technology