

Name \_\_\_\_\_

## The Colorful World of Minerals and Gems

### Short Answer Key

1. Malachite gets its green color from the presence of copper.
2. Iron can contribute to mineral coloration by producing various colors based on its oxidation state and the mineral's structure.
3. Heat can change the color of a mineral, such as topaz, by altering the arrangement of atoms within the crystal lattice.
4. Impurities in a mineral's crystal structure can alter the way it interacts with light, affecting its color.
5. Pleochroism is the phenomenon where a mineral can display different colors when viewed from different angles due to variations in its crystal structure. An example is alexandrite.

