

Minerals : Quiz 1-50

- 1) What is a mineral?
- 2) Give five properties of minerals.
- 3)a) What is the color of malachite.
b) Why is color not a good way to identify minerals?
- 4)a) Define: specific gravity.
b) Give the specific gravity of fluorite.
- 5)a) Give the hardness for the mineral topaz.
b) What is the hardness of a steel knife?
c) Will feldspar scratch quartz?
- 6) Give a use for the following minerals.
a) kaolinite b) halite c) graphite
- 7)a) What is an ore?
b) Name the mineral which is an ore for the following metals.
i) aluminum ii) lead iii) iron
- 8)a) Give the chemical formula for sphalerite.
b) What two elements are found in this mineral.
- 9)a) What two elements are found in all silicates?
b) Which metal is found in dark magnetic silicates?
- 10) Which mineral gives CO₂ bubbles when acid is put on it?
- 11) What can you tell from the shape of a crystal?

Answers: 1) It is a substance composed of one or more kinds of atoms arranged to form a crystalline solid., 2) color, streak, luster, crystal shape, cleavage, hardness, density, chemical composition, 3)a) green, b) some minerals have more than one color, 4)a) It is the density (gm/cm^3), b) 3.2, 5)a) 8.0, b) 5.5-6.0, c) no, 6)a) pottery, b) table salt, c) pencils, 7)a) It is a mineral that contains a metal., b)i) bauxite, ii) galena, iii) magnetite, hematite, or limonite, 8)a) ZnS, b) zinc and sulfur, 9)a) oxygen and silicon, b) iron, 10) calcite, 11) It tells you the way the atoms are ordered.