Name:	
Date:	Period:

## Minerals & Rocks

The Physical Setting: Earth Science

## Worksheet: Igneous Rocks

- 1. Which is a fine-grained igneous rock made up primarily of pyroxene and plagioclase feldspar?
  - a. granite
  - b. gabbro
  - c. basalt
  - d. rhyolite
- 2. The best evidence for determining the cooling rate of an igneous rock during its solidification is provided by
  - a. the disintegration of radioactive substances
  - b. the crystal size of its minerals
  - c. index fossils
  - d. faults in the rock
- 3. Basalt contains the greatest quantity of which mineral?
  - a. mica
  - b. quartz
  - c. pyroxene
  - d. potassium feldspar
- 4. Which statement best describes the percentage of plagioclase feldspars in a sample of gabbro?
  - a. Gabbro always contains less plagioclase than pyroxene
  - b. Gabbro contains no plagioclase feldspars
  - c. Plagioclase feldspars always make up 25% of a gabbro sample
  - d. The percentage of plagioclase feldspar in gabbro can vary
- 5. Which property would be most useful for identifying igneous rocks?
  - a. types of fossils present
  - b. kind of cement
  - c. number of minerals present
  - d. mineral composition
- 6. A fine-grained igneous rock contains 11% plagioclase, 72% pyroxene, 15% olivine, and 2% amphibole. This rock would most likely be classified as
  - a. rhyolite
  - b. qabbro
  - c. basalt
  - d. granite
- 7. Which is the best description of the properties of basalt?
  - a. fine-grained and felsic
  - b. coarse-grained and mafic
  - c. coarse-grained and felsic
  - d. fine-grained and mafic

## Worksheet: Igneous Rocks

- 8. Rhyolite and granite are alike in that they both are
  - a. felsic
  - b. fine-grained
  - c. dark-colored
  - d. mafic
- 9. Most igneous rocks form by which processes?
  - a. erosion and deposition
  - b. heat and pressure
  - c. melting and solidification
  - d. compaction and cementation
- 10. Rhyolite is an example of a
  - a. polymineralic sedimentary rock
  - b. polymineralic igneous rock
  - c. monomineralic sedimentary rock
  - d. monomineralic igneous rock
- 11. Which texture best describes an igneous rock that formed deep underground?
  - a. glassy
  - b. fine grained
  - c. vesicular
  - d. coarse grained
- 12. A nonvesicular rock is made entirely of green 2-millimeter-diameter crystals is most likely
  - a. granite
  - b. dunite
  - c. obsidian
  - d. pumice
- 13. Which igneous rock has a vesicular texture and a mafic composition?
  - a. pumice
  - b. basalt
  - c. granite
  - d. scoria
- 14. Which is the best description of the properties of granite?
  - a. fine-grained and felsic
  - b. coarse-grained and mafic
  - c. coarse-grained and felsic
  - d. fine-grained and mafic
- 15. Which is the best description of the properties of pumice?
  - a. vesicular and felsic
  - b. vesicular and mafic
  - c. non-vesicular and felsic
  - d. non-vesicular and mafic