

Name: _____

Date: _____ Period: _____

Minerals and Rocks

The Physical Setting: Earth Science

Worksheet: ESRT Review

Directions: Use your Earth Science Reference Tables to answer all the questions.

Properties of Common Minerals

1. What is magnetite hardness?
2. What mineral is the ore of iron?
3. What two minerals bubble with acid?
4. What minerals composition is SiO_2 ?
5. Which mineral can have both a metallic and nonmetallic luster?
6. What mineral has a hardness of 6 and cleaves in two directions at 90° ?
7. What mineral is used in pencil lead?
8. Does fluorite have cleavage or fracture?
9. What mineral has a red-brown streak?
10. Name a mineral that has a salty taste?
11. Name two metallic minerals?
12. What mineral cleaves in four directions?
13. Name four minerals that can easily be scratched by a fingernail?

Scheme for Igneous Rock Identification

1. What is the environment of formation for granite?
2. Name two minerals that are in diorite?
3. What is obsidians texture?
4. What is the grain size for very coarse textures?
5. What is the color for a sample of gabbro?
6. Name two rocks that are vesicular?
7. What is basalts composition and density?
8. What is pegmatites texture?
9. What is the environment of formation for pumice?
10. Name two rocks that have a light color and felsic composition?

Worksheet: ESRT Review

Scheme for Sedimentary Rock Identification

1. What rock consists of rounded fragments?
2. What rock consists of angular fragments?
3. This sedimentary rock consists of compacted plant remains?
4. Name a clastic rock that has fragments ranging from 0.006 to 0.0004 cm?
5. Name an organic rock cemented together by calcite?
6. What clastic rock consists of the smallest grain size?
7. What is rock salts composition?

Scheme for Metamorphic Rock Identification

1. What type of texture does Gneiss have?
2. What rock was formed by contact metamorphism?
3. Name a coarse grained, non-foliated rock?
4. What is the composition of slate?
5. Which rock comes from the metamorphism of sandstone?
6. Platy mica crystals are in which rock?
7. What is the composition of marble?
8. What rock will bubble with acid (HCl)?

Relationship of Transported Particle Size to Water Velocity

1. What is the minimum size of a cobble?
2. What is the maximum size of a pebble?
3. What is the smallest sized particle?
4. What is the largest sized particle?

Rock Cycle

1. How can a sedimentary rock change to an igneous rock?
2. How can an igneous rock change to a metamorphic rock?
3. How can a metamorphic rock change to a sedimentary rock?