

Name: _____

Date: _____ Period: _____

Midterm Review

Earth Science

Review: Earth Science Reference Tables

Direction: Use the Earth Science Reference Tables to answer all questions on a separate piece of paper.

Equations:

1. What is the equation for density?
2. What is the density of a substance when the volume is 5.0 cm^3 and the mass is 25 grams?
3. What is the gradient if a student measures the ground temperature to be 30° C and directly two meters above that same location 35° C ?

Generalized Bedrock Geology of New York State:

1. What is the latitude and longitude of Slide Mountain?
2. What is the latitude and longitude of Binghamton?
3. What approximate altitude would you see Polaris if you were in Syracuse?

Tectonic Plates:

1. What type of plate boundary is the San Andreas Fault?
2. What type of plate boundary is the Aleutian Trench?
3. What type of plate boundary is the Peru-Chile Trench?
4. What is the latitude and longitude of the Hawaiian Hot Spot?

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?

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?

Scheme for Igneous Rock Identification:

1. What is the environment of formation for granite?
2. What is the grain size for very coarse textures?
3. Name two rocks that are vesicular?
4. Name two rocks that have a light color and felsic composition?

Review: Earth Science Reference Tables

Scheme for Sedimentary Rock Identification:

1. What rock consists of rounded fragments?
2. This sedimentary rock consists of compacted plant remains?
3. Name an organic rock cemented together by calcite?
4. What clastic rock consists of the smallest grain size?
5. 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. Which rock comes from the metamorphism of sandstone?
5. What rock will bubble with acid [HCl]?

Inferred Properties of Earth's Interior:

1. What is the density of the continental crust?
2. What is the density of the oceanic crust?
3. What is the temperature at the boundary between the Outer Core and the Inner Core?
4. What is the pressure at the boundary between the Outer Core and the Inner Core?
5. What is the density of the stiffer mantle?

Selected Properties of Earth's Atmosphere:

1. What is the boundary between the stratosphere and the mesosphere?
2. What is the boundary between the mesosphere and the thermosphere?
3. Does temperature increase or decrease in the troposphere?
4. Does temperature increase or decrease in the mesosphere?
5. Does pressure increase or decrease in the troposphere?

Properties of Common Minerals:

1. What is magnetite hardness?
2. What two minerals bubble with acid?
3. What minerals composition is SiO_2 ?
4. Which mineral can have both a metallic and nonmetallic luster?
5. What mineral is used in pencil lead?
6. Does fluorite have cleavage or fracture?