

Note-taking Rocks and Minerals

Section 1 Minerals—Earth's Jewels

Α.		—inorganic solid material with a particular chemical makeup and derly arrangement of atoms
	1.	Rocks are usually composed of two or more
	2.	Minerals form from or lava or through evaporation or precipitation.
	3.	Mineral formation clues include and how mineral crystals fit together.
B.	Pre	operties—characteristics used to minerals
	1.	Solid materials with a repeating pattern of atoms are called
	2.	Some minerals have, splitting into thin sheets; other minerals
		have, breaking into rough edges.
	3.	Color or (color of a powdered mineral) helps identify minerals.
	4.	describes how light reflects from a mineral's surface.
	5.	Mohs scale uses to classify minerals from 1 (softest) to 10 (hardest).
	6.	
	7.	Other properties of minerals include, double refraction, taste, or reactions with acid.
C.	Сс	ommon minerals—most rock-forming minerals are
	or	·
	1.	Rare minerals which can be cut and polished are
	2.	Diamonds are produced under beneath Earth's surface and brought to the surface by special volcanic eruptions.
	3.	An contains enough useful mineral to be sold at a profit.
	4.	Ores must be to extract the mineral.

Note-taking Worksheet (continued)

Section 2 Igneous and Sedimentary Rocks

A.		
	1.	igneous rocks form when melted rock cools on Earth's surface.
	2.	igneous rock forms when melted rock cools beneath Earth's
		surface.
	3.	Light-colored often intrusive igneous rocks containing a high percentage of silica are
		called
	4.	Dark-colored often extrusive igneous rocks containing iron, magnesium, or calcium are
		called
	5.	is melted rock that reaches Earth's surface and forms extrusive igneous rock when it cools.
		a can erupt, bringing a lava flow to Earth's surface.
		b. Large cracks or can allow melted rock to ooze out in a lava flow.
	6.	is melted rock that does not reach Earth's surface; intrusive igneous rocks form as magma slowly cools under the surface.
	7.	Crystal is the main difference between intrusive and extrusive igneous rock.
		a igneous rocks have large crystals.
		b. igneous rocks do not have large crystals.
		rocks form in layers from broken rock, shells, plants, and other
	ma	aterials.
	1.	rocks—made of grains from minerals or other rocks that have been compressed
	2.	rocks—form when mineral-rich water evaporates and from other
		chemical processes
	3.	rocks—form from dead plants and animals that have been
		compressed
		a. If the rock is produced from layers of plants, it is called
		b. If the rock is produced from organic sediment in the, it is usually classified as limestone.
		c. Chalk is a kind of limestone made from the of tiny animals and algae.

Meeting Individual Needs

Note-taking Worksheet (continued)

Section 3 Metamorphic Rocks and the Rock Cycle

Α.		me,, and heat, and events such as erosion and moving land asses, make new rocks out of old rocks.
	2.	Rocks having visible layers or elongated mineral grains are called
		rocks; rocks do not have layers or bands.
В.		—rocks change from one type to another over millions of years.
	1.	The model, or, shows each rock on a continuing journey.
	2	A rock in part of the cycle could become any other kind of rock