Earth Science Chapter 3 Study Guide

dI	ne
1.	Minerals are formed in nature, have astructure, are
	nonliving, are solid, and have definite chemical makeup. These are
	their characteristics.
2.	Chemical makeup means that the chemical elements a mineral
	has, must be thethroughout the element.
3.	An is the smallest piece of matter that anything can be
	made of.
4.	Atoms that are arranged inpatterns can form crystals.
5.	Crystals are only found in
6.	All minerals have five characteristics.
7.	Minerals' properties are luster, crystal shape, hardness, streak,
	and cleavage.
8.	is a way to describe how light shines off of a mineral.
9.	Minerals of the same kind will have the same crystal shape.
10	is the measure of how easily a mineral is
	scratched.
11	is the color of powder a mineral leaves when rubbed
	on a streak plate. If the mineral is softer than the plate, it will
	leave a streak of color. If the mineral is harder than the plate, it
	will scratch it.
12	is the way a mineral breaks along the surfaces
	called cleavage planes.
13	Rocks are natural solids made up of materials from the
	Earth's crust.
14	Almost all rocks are made of

	15. The of the planet is made of rocks and minerals.
	16. Loose pieces of rocks, minerals, bits of dead plants and
	animals, water, and air all make up
	17. Scientists classify, or group, rocks into three types based on
	18. Igneous rocks form whenrock material cools and
	becomes solid, either on the Earth's surface or below it. They are
	made of individual mineral crystals locked together.
	19. Igneous rocks do not contain fossils because the hot melted
	rock would have destroyed any traces of
**	20. rocks are made of up of broken rock bits
	pressed together, broken apart by wind or water, then cemented
	together over time, on top of older layers of rock.
	21. Some sedimentary rocks contain traces of plants and
	animals called
*	22rocks form from igneous, sedimentary, or
	other metamorphic rock because of increased temperature,
٠	(heat) and pressure.
•	23. Rocks do not melt as they become metamorphic. The
	minerals and crystal shape change, but the rock stays
	24. The series of changes from one type of rock to another is
	called the
	25. Any type of rock can change into any other type of rock, but
	most of these processes take millions of years to happen.
	26. If sedimentary rock melts, it becomes igneous.
	27andcan change sedimentary rock into
	metamorphic rock.
*	metamorphic rock.