Name:	Minarala Daalra an	d Minaral Pagourcas
Topic 11: Earth Materials – In The solid surface of the Earth that we live		
of and	e on is caned are	ara is indee up
MINERALS (p.190-194) Minerals have characteristic	and	properties. List some
of seven of these properties.		<u>_</u>
		•
Define mineral:		
What does it mean to be inorganic?		
What does crystalline mean?		
		·
All minerals are rocks, but not all rocks:	made of minerals. Explain	how a rock could not be made of
minerals.	•	
Figure 11-2., shows that only a small nu	mber of minerals are comm	nonly found in rocks. 90% of
Earth's crust by weight is composed of e		
Because they conta	ain the element silicon and	oxygen.
Another phrase for crystal structure is _		•
What is the name of the structural unit of	of cilicator?	
Draw one:	or sincates:	
Minerals can form in two ways:		
#1.	N	
#2.		

Name:
Name: Topic 11: Earth Materials – Minerals, Rocks, and Mineral Resources
The mineral corundum can have a ruby red color, sapphire blue color or be colorless. Explain how?
Why is color often not useful for mineral identification?
Define streak :
Why is streak more reliable than color for mineral identification?
What are the two broad groups of mineral luster?
Define hardness:
How does Moh's scale work?
Define mineral cleavage:
If a mineral doesn't cleave when it breaks, it will demonstrate uneven breaking or
What is conchodial fracture? What common silicate mineral shows conchodial fracture?
Which minerals or rocks react with acid? What kind of reaction occurs?

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ROCKS (p.195-207)
Rocks can be made of a single mineral or can be mixtures of
The three categories of rocks are, and
Rocks are distinguished and identified by their and
Define texture (as it relates to rocks):
Sedimentary Rocks How do sedimentary rocks form?
Define clasts:
Why do most sedimentary rocks form at the bottom of lakes, seas, and oceans?
List the four methods of formation for sedimentary rocks:
What three minerals are commonly the "glue" that cements clastic sedimentary rocks together?
Shale and coal are formed solely by But, most clastic sedimentary rocks form from a combination of and
Evaporites are formed by the process
Define Organic :
Why are the clasts that make up sedimentary rocks often rounded?
Define Fossil:

Name:
Topic 11: Earth Materials – Minerals, Rocks, and Mineral Resources
What is the difference between Conglomerate and Breccia?
Pio destinition and a constant in a second of CoCC and the cities
Bioclastic limestone is composed of CaCO ₃ , so it will in acid.
Igneous Rocks Rocks that form when natural molten rock-forming material cools and turns into a solid are This process is known as Solidification .
Define magma:
How is lava different from magma?
When magma solidifies it forms rocks called
Batholith, stock, laccolith, sill, and dike are all types of
When lava solidifies on or above Earth's solid surface, the result is
When does crystallization occur?
Why is glass non-crystalline?
What conditions are necessary for a rock to have large coarse crystals easily visible to the human eye? (Think time frame)
If lava cools quickly, fine-grained rocks form. Fine-grained rocks have crystals that are not easily seen with the unaided human eye. If the cooling is very fast a rock with no or few mineral crystals form.
What controls the texture of igneous rocks?
If a rock has rounded openings that were caused by lava solidifying around trapped expanding gases it has a texture. Identification of igneous rocks is based on what two things?

<u>Metamorphic Rocks</u>	
Rocks that form from changes in previously existing ro without weathering or melting a	cks due to,, and/o
atthout wountering of mounts a	re memiorphic rocks.
Metamorphism usually occurs where?	
Layering of mineral crystals is called	(This is an important term!)
What is recrystallization?	
When older rocks come in contact with the magma of a and mineral fluids of the liquid rock alter the older rock	
Regional Metamorphism occurs in the lithosphere who	en
Look at figure 11-14 on p.201.	
Sandstone is the parent rock of	Dolostone is the parent rock of
Limestone is the parent rock of	
Shale is the parent rock of,,	, and
Siltstone is the parent rock of	·
Metamorphic rocks are classified and identified based o	on and
Environment of Rock Formation	
Salt beds in western NYS lead to the inference that	
The distorted rock structures of the metamorphic rocks	exposed in the Adirondacks indicate that
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