

<u>Metamorphic Rocks</u>

When you hear the word METAMORPHIC think of: metamorphosis, change, heat, pressure



- Stripes or bands of minerals black and white, black and pink
 - Shiny or silvery surfaces made of mica
 - Many minerals can may be seen
 - Squished pieces



Schist

Is shiny and sometimes silvery A schist has a lot of the mineral mica in it, the mica is what is shiny





Gneiss ("nice") - zebra rock Bands or stripes of minerals: • White minerals may be quartz & feldspar Black minerals may be biotite mica & hornblende









Garnet



Kyanite

Sometimes schist has other minerals in it like garnet and kyanite





Questions or suggestions contact: Randy Bechtel

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Environment where the rock formed:

- These rocks were changed from what they originally were by heat and pressure.
- Some of these rocks were put under only a little heat And pressure and still look similar to their original – slate looks like shale
- Some of these rocks were put under a lot of heat and pressure and do not look like their original rock – gneiss could have started as many different rocks

Food:

Marble cake - bands of white and dark cake swirled, cake that has been changed (like igneous rocks being swirled into stripes)



Ho-Ho - layers of cookie and filling all rolled up layers were changed (like layers of sedimentary rock being folded)





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High Heat and Pressure Changed a lot from original rock

Gneiss

Low Heat and Pressure Changed a little from original rock



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Meta. - 3