Metamorphic Rocks

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

What to look for:
- Stripes or bands of minerals black and white, black and pink
- Shiny or silvery surfaces made of mica
- Many minerals can 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

Squished pieces of rocks and minerals

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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).
A Few Types of Metamorphic Rocks:

- **High Heat and Pressure**
  - Changed a lot from original rock

- **Low Heat and Pressure**
  - Changed a little from original rock

### Types of Metamorphic Rocks:
- **Gneiss**
- **Schist**
- **Phyllite**
- **Slate**

- **Quartzite** = Sandstone
- **Marble** = Limestone
- **Slate** = Shale

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