

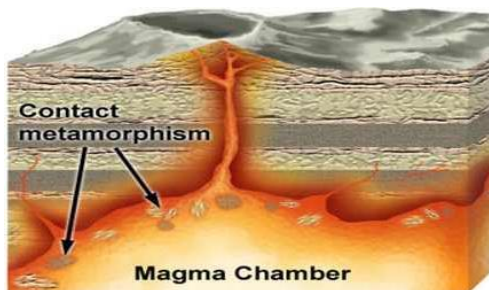
Metamorphic Rocks Reference Sheet

What are Metamorphic Rocks?

- Metamorphic rocks are rocks that were changed by extreme _____ and/or _____.
- Metamorphism means " _____ "
- Any type of rock - igneous, sedimentary, or metamorphic - can become a metamorphic rock.
- Parent Rock = _____

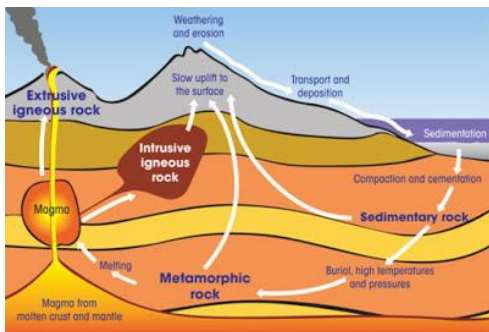
Heat and Pressure

- Higher temperatures occur around _____.
- Higher pressures occur in areas around tectonic plate boundaries
- Higher temperatures **AND** pressures occur _____.
- Metamorphic temperatures are high enough to cause a change in texture and minerals, but not hot enough for _____.



Contact Metamorphism

- Metamorphism produced by intrusion of _____.
- Changes are from **temperature increases** due to contact with the magma body
- Usually occurs at **relatively shallow depths (low pressure)** in the Earth because there is a larger contrast in temperature between the intruding magma and the surrounding rock.

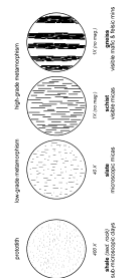
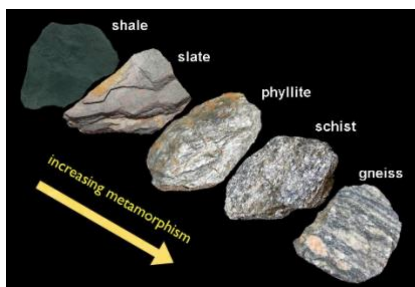


Regional Metamorphism

- Changes in rock that occur because of **high pressure and/or temperature over a _____**.
- Deep in the Earth or at tectonic plate boundaries.

Foliation

- _____ in rocks due to **squeezing by pressure**. (ex: **shale** and **granite**)
- Foliation becomes more defined as pressure and temperatures increase.
- **Nonfoliate** rocks include **marble** and **quartzite**



Minerals

- Heat and pressure may cause the structure of minerals to rearrange and form **new minerals** that are more _____.

