Grade 7 - Unit 5 – **Planet Earth** Concepts

Sudden Change ◆——◆ **Gradual Change**

Earthquakes
Focus
Epicentre
Fault
Seismic waves
Seismograph
Richter Scale

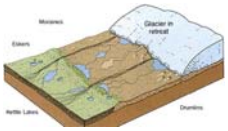
Volcanoes
Magma
Lava
Ash plume

Wind
Weathering
Mechanical
Chemical
Biological
Erosion
Deposition

Water
Erosion
Sedimentation
Fluvial landforms
Landslides

Ice

Glaciers
Glacial Features



Continental Drift

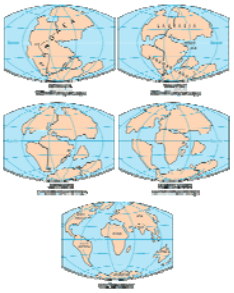
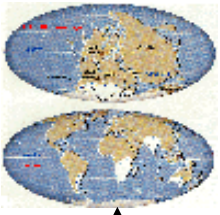
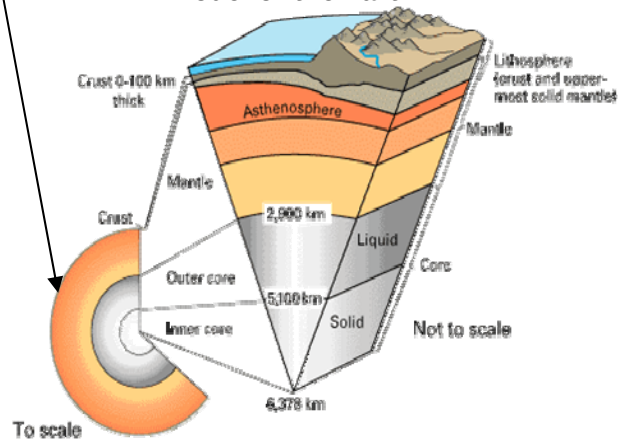


Plate Tectonics



Model of the Earth



GEOLOGY
Study of the Earth

Geologist
A scientist who studies the Earth

Geological
Tools and Techniques
Surveyor's Level
Transit
Fire suit
Seismogram
Remote Sensing
Geophysical Prospecting
Geochemical Prospecting
Exploration

Boundaries ↔ **Mountain Building**

Diverging
Converging
Transform

Folding
- ❖ Anticline
- ❖ Syncline

Faulting
Buckling

Rocks and Minerals
Identification (Properties)
- ❖ colour
- ❖ lustre
- ❖ streak
- ❖ cleavage
- ❖ fracture
- ❖ hardness

Fossil Beds
- ❖ Grand Canyon
- ❖ Burgess Shale (B.C.)
- ❖ Badlands of Alberta

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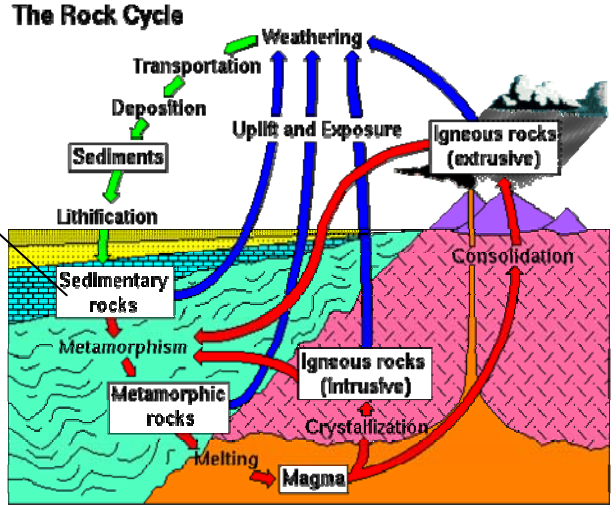
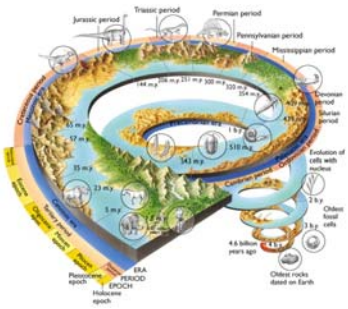
Royal Tyrell Museum

Fossil Types
Cast and Mould
Trace Fossils
Carbonaceous film

Index fossils

The Rock Cycle





GEOLOGICAL TIME SCALE

Paleontologists study early life forms by interpreting animal and plant fossils