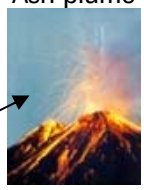
Grade 7 - Unit 5 – **Planet Earth** Concepts

Sudden Change ◆——————◆ **Gradual Change**

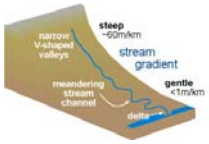
Earthquakes
Focus
Epicentre
Fault
Seismic waves
Seismograph
Richter Scale

Volcanoes
Magma
Lava
Ash plume



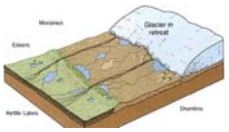
Wind
Weathering
Mechanical
Chemical
Biological
Erosion
Deposition

Water
Erosion
Sedimentation
Fluvial landforms
Landslides



Ice

Glaciers
Glacial Features



Continental Drift

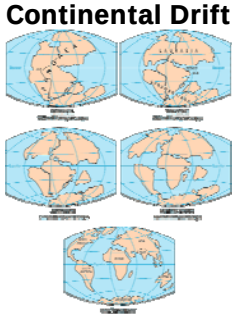
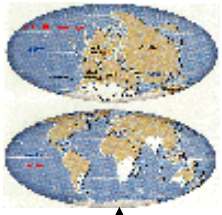
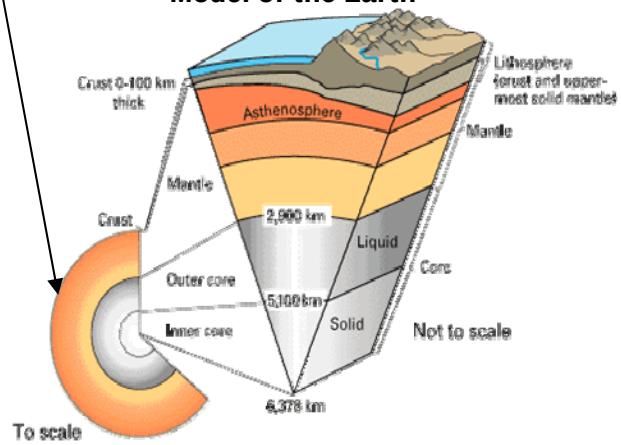


Plate Tectonics



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

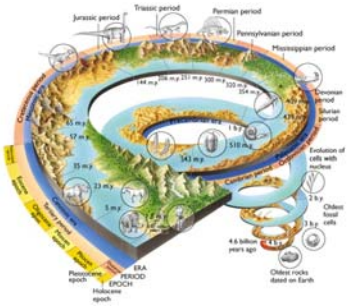
Rocks and Minerals
Identification (Properties)
- ❖ colour
- ❖ lustre
- ❖ streak
- ❖ cleavage
- ❖ fracture
- ❖ hardness

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

Royal Tyrell Museum

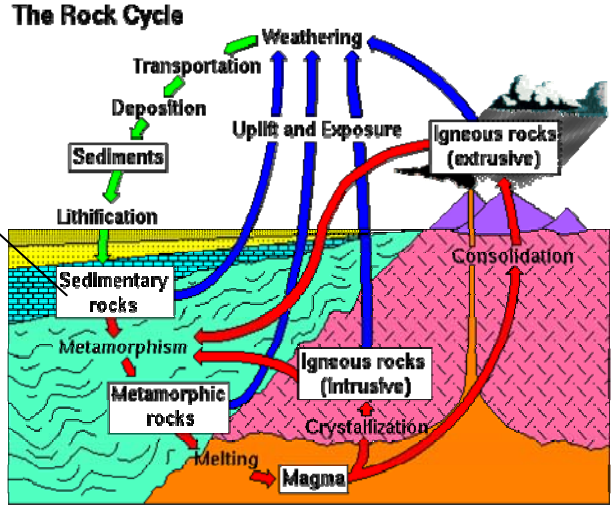
Fossil Types
Cast and Mould
Trace Fossils
Carbonaceous film

Index fossils



GEOLOGICAL TIME SCALE

The Rock Cycle



Paleontologists study early life forms by interpreting animal and plant fossils