



# ROCKS!



# Rocks

There are 3 rock types:

- Sedimentary
- Igneous
- Metamorphic

-All 3 types can be found in Canada

# Sedimentary Rock

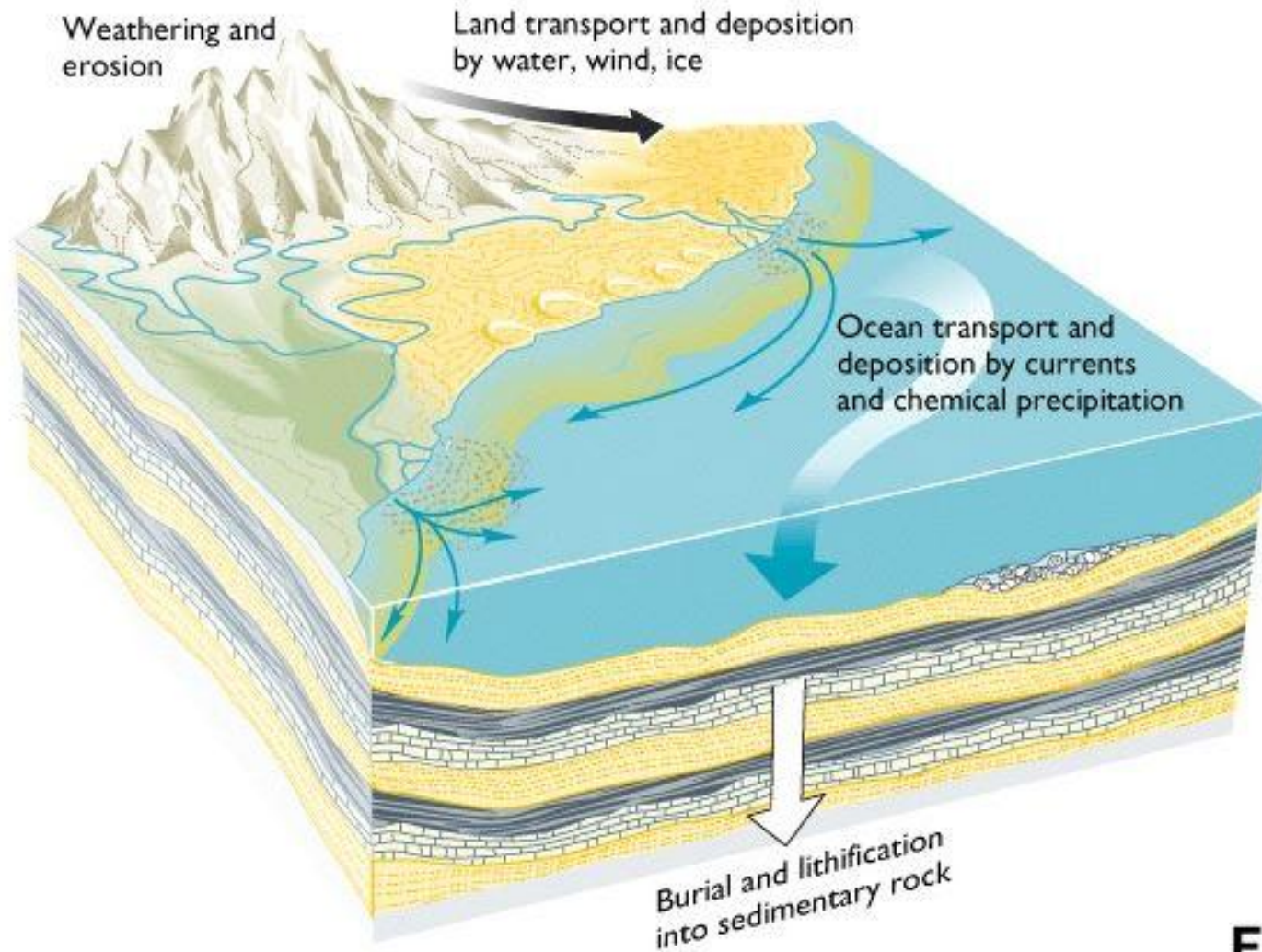
Sedimentary Rock: Rock usually formed in layers from the compression of sediments over millions of years.

Sediment: eroded material that is deposited by water, wind, or glacial ice.

## Types of Sedimentary Rock:

- Limestone
- Sandstone
- Shale

# From Weathering to Sedimentary Rock



**Fig. 3.3**

# Sedimentary Rock



# Igneous Rock

Igneous Rock: rock formed from cooling molten rock (magma or lava). There are two types, intrusive and extrusive.

Intrusive: formed from magma that cools and solidifies within the earth. The magma cools very slowly which results in coarse crystals.

Extrusive: formed at the Earth's surface. The magma cools very quickly, so the crystals are much finer.

## Types of Igneous Rock:

-Granite (intrusive)

- Basalt (extrusive)

# Igneous Rock



# Metamorphic Rock

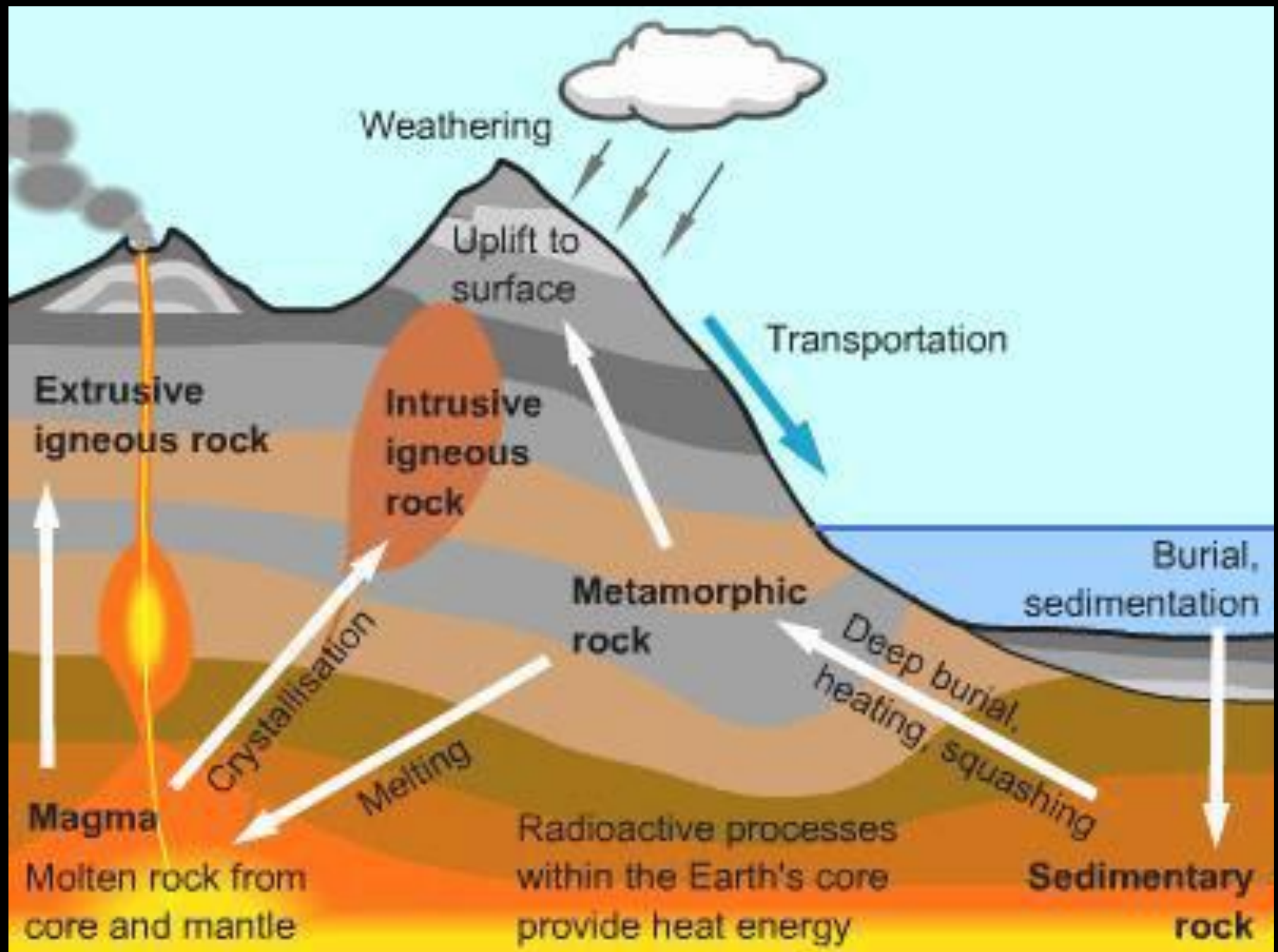
Metamorphic Rock: Type of rock formed when sedimentary and igneous rocks are subject to great heat and pressure.

Metamorphism: the solid state re-crystallization of pre-existing rocks due to changes in heat and/or pressure and/or introduction of fluids (i.e without melting).

Types of Metamorphic Rock:

- Marble

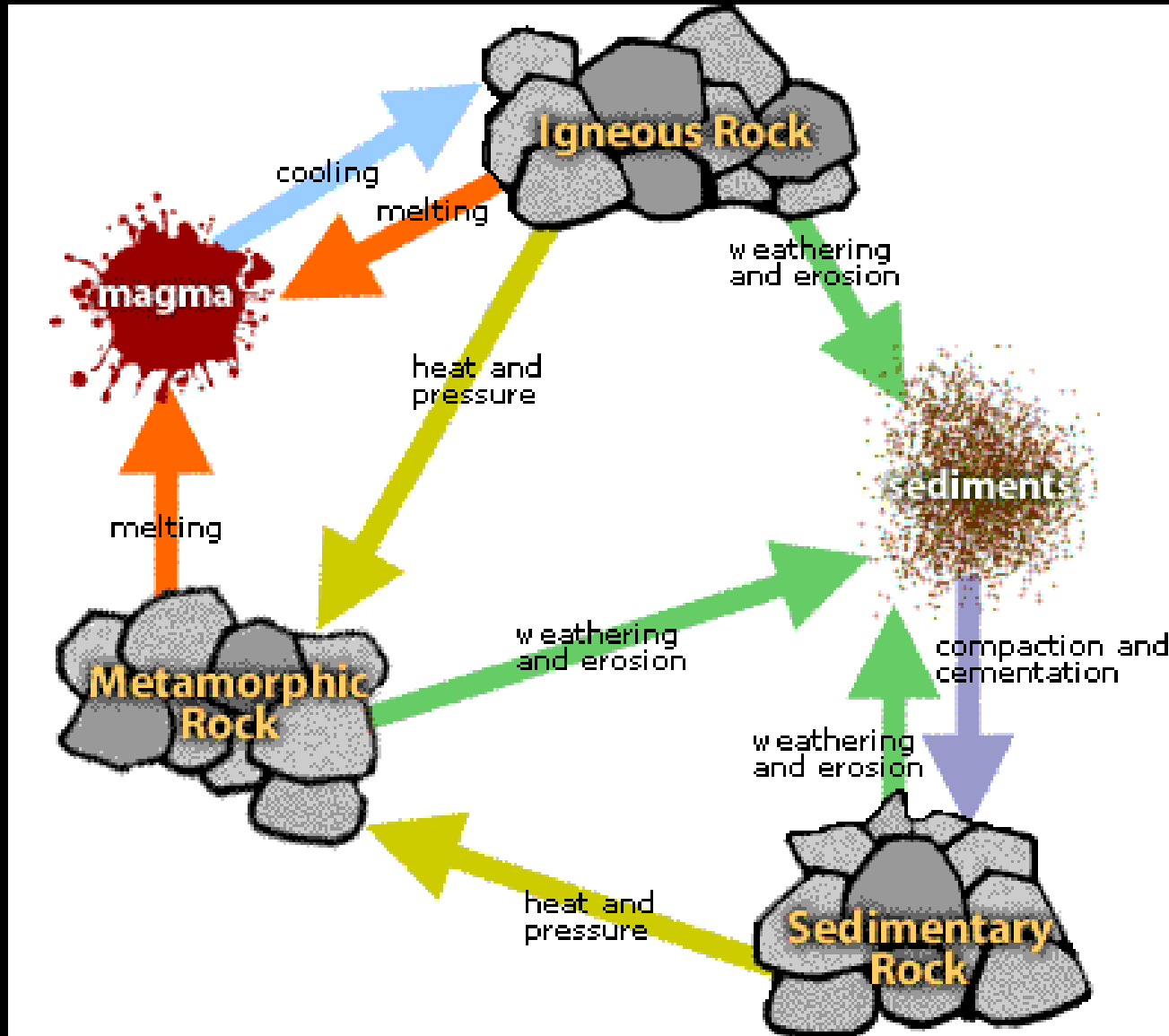
- Slate



# Metamorphic Rock



# THE ROCK CYCLE



SAMPLES