

FORMATION OF SEDIMENTS

weathering is the creation of smaller pieces of rock through physical or chemical means.

erosion is the moving of sediments from their original position.

deposition is the settling out of sediment.

compaction & cementation

is the process by which sediment is squeezed and glued together into a new rock.

EXAMPLES

SEDIMENTARY

shale
limestone
conglomerate

METAMORPHIC

gneiss
marble
schist

IGNEOUS

pumice
obsidian
granite

IGNEOUS ROCK

Created from the cooling and solidification of magma or lava.
The rock's crystal size depends on how quickly it cools.

MELTING

WEATHERING, EROSION & DEPOSITION

HEAT & PRESSURE

MELTING

! Any type of rock can become another type, given the right conditions!

SEDIMENTARY ROCK

Created from the deposition of sediments in layers over long periods of time. It often contains fossils.

WEATHERING, EROSION & DEPOSITION

HEAT & PRESSURE

METAMORPHIC ROCK

Existing rock is subjected to very high heat and pressure.
This usually takes place deep underground.

THE

ROCK CYCLE