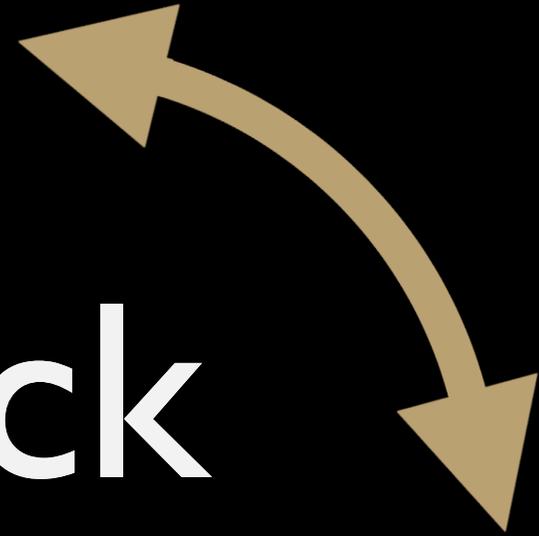
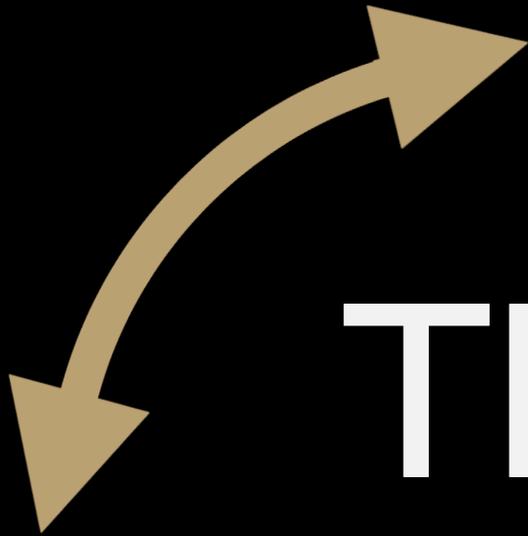
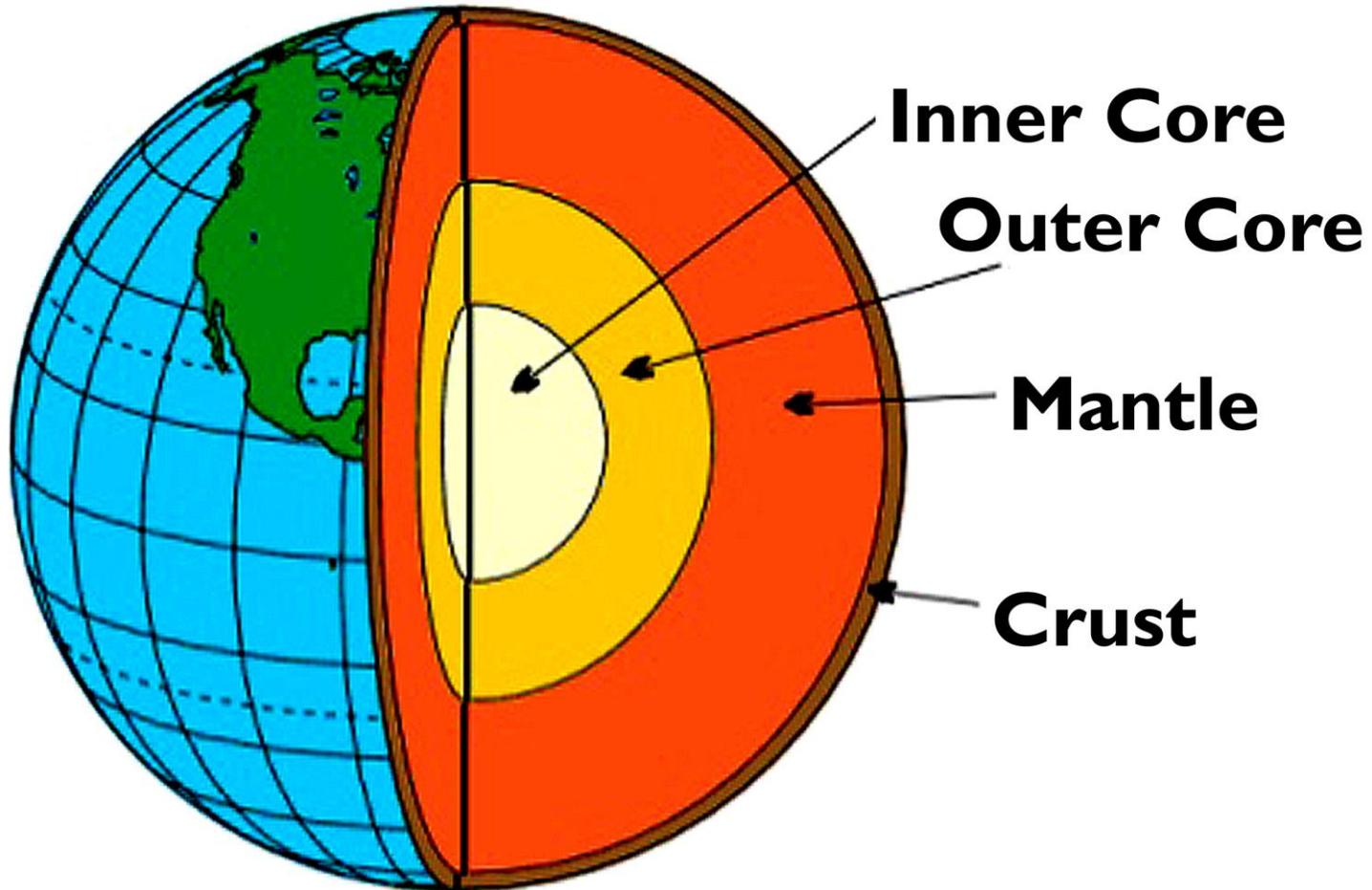


The Rock Cycle



The Earth is made up of rock!



There are 3 types of rock,
classified by how they are formed:

- **Sedimentary**

- **Metamorphic**

- **Igneous**

Each of these three types of rock
can turn into any of the other types,
if exposed to the right conditions.

That's why it's called
The Rock Cycle!

The formation of the **three rock types**, through
Rock Cycle processes, happens in the **earth's crust**.

Sedimentary



- Sedimentary rocks form from eroded pieces of minerals, rocks, and fossils.
- These particles, or *sediments*, build up in *layers* through deposition.
- Sedimentary rocks form near the *surface*, by *time* and *pressure*.

Metamorphic



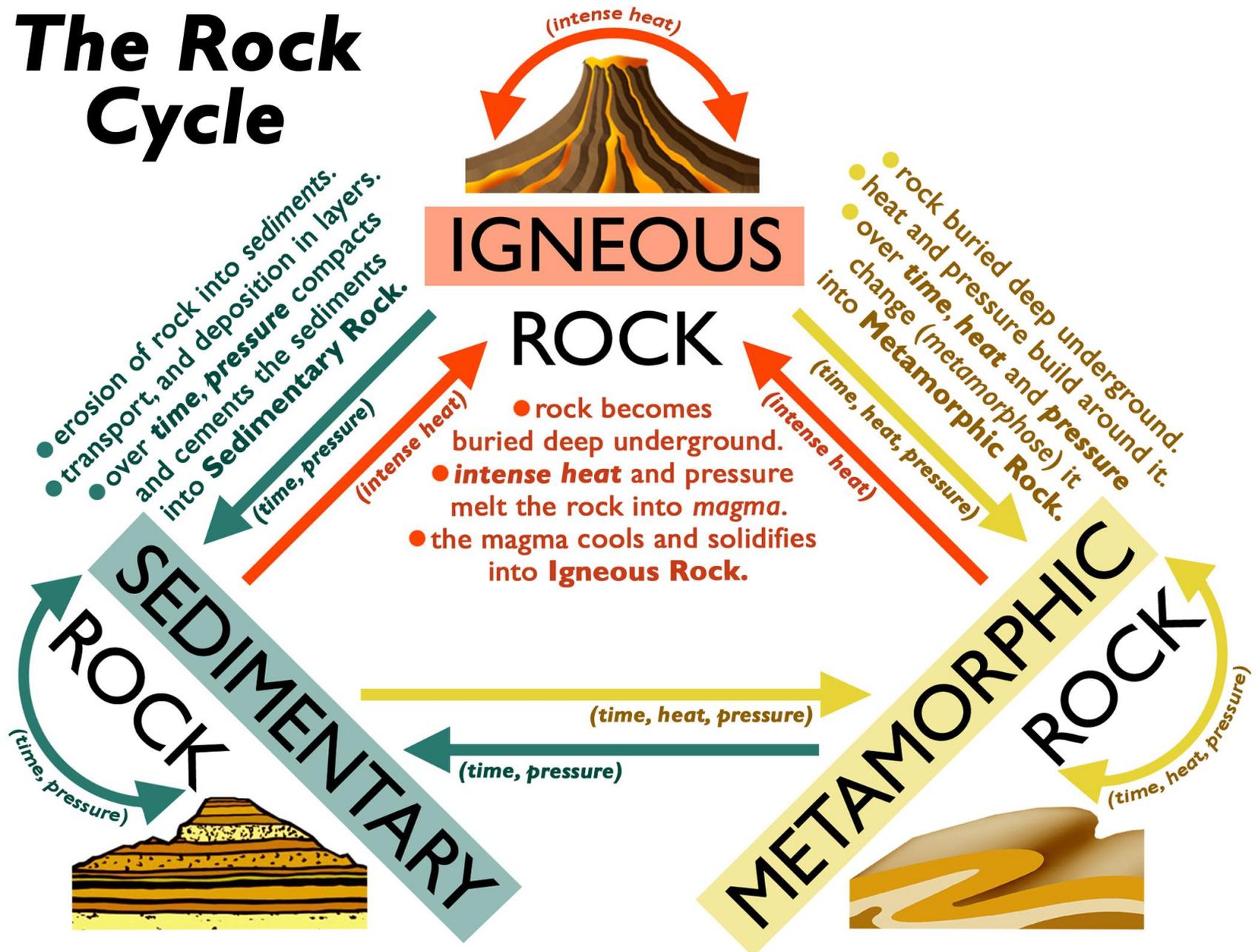
- Metamorphic rocks form when other types of rocks *change* into new ones.
- They form deep underground.
- Metamorphic rocks require a lot of **time, heat and pressure** to form.

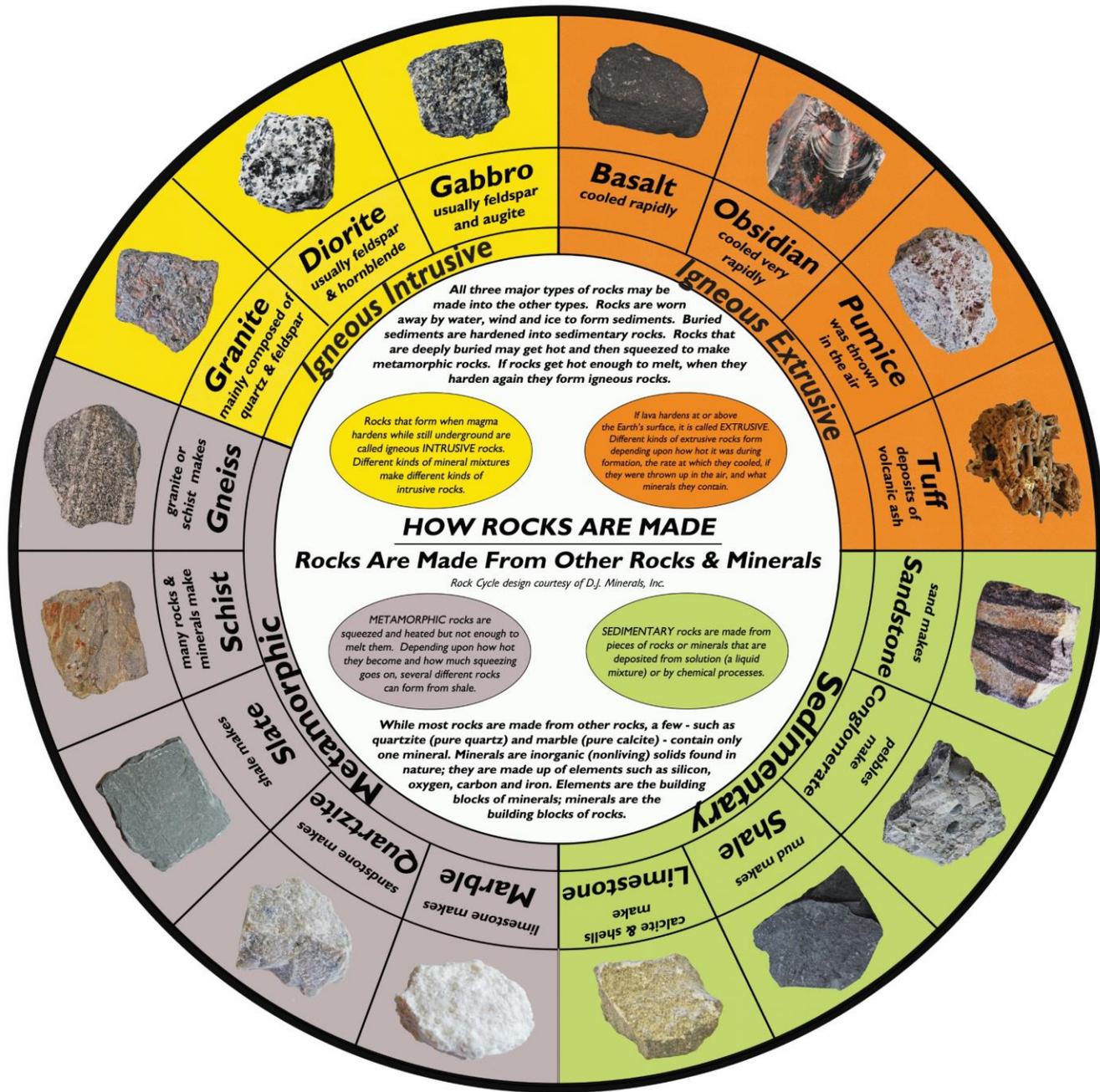
Igneous



- Igneous rocks are made from molten, or melted rock from deep underground.
- *Molten rock underground (magma) that cools forms **intrusive** rocks; surface molten rock (lava) that cools forms **extrusive** rocks.*
- Igneous rocks form in **intense heat**.

The Rock Cycle





Rocks are made up of *matter*—
like pretty much everything in the universe!

Matter is anything that has mass
and takes up space.

The three *states of matter* are:
solid, liquid, & gas.

Matter can change both *physically* and *chemically*.

Physical change – a reversible change, where the appearance is altered, but composition stays the same.

Chemical change – an irreversible change that alters the chemical makeup of a substance.

Energy is involved in any change in matter!