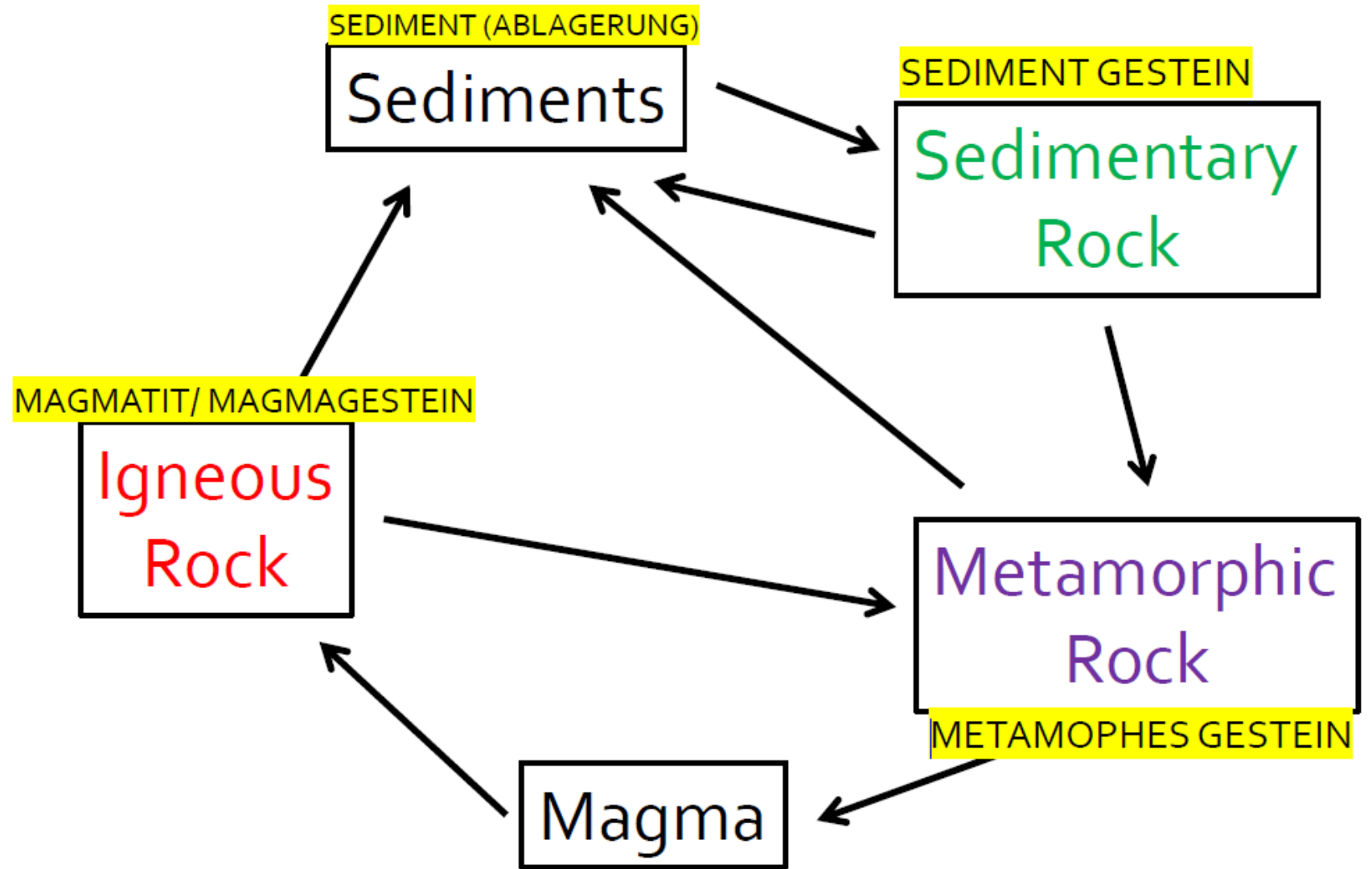


Rock Cycle

Rock Cycle

A model that describes the formation, breakdown, and reformation of a **rock**.



Rock Cycle

Sedimentary Rock

- Formed when sediments accumulate and compact and cement together.
- Often deposited in layers and contains sand, pebbles, and fossils.
- Ex. sandstone, limestone



Rock Cycle

Try to come up with 5 ways which rocks can be broken down into smaller pieces

Rock Cycle

By what process are sedimentary rocks broken down?

Weathering (Verwitterung)

- By weather (rain, ice, wind), chemical changes, and living things (plant).
- Creates loose material called sediments.

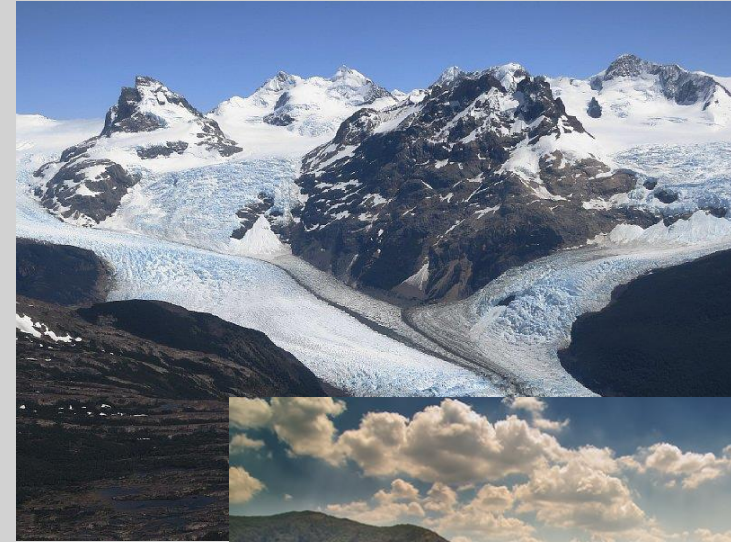


Rock Cycle

By what process are sediments moved?

Erosion

- Wind
- Water
- Gravity
- Ice



They are deposited in layers - **Deposition**

Rock Cycle

What are the processes that form sedimentary rock?

Compaction (Verdichtung)

- Sediments are deeply buried, placing them under pressure because of the weight of overlying layers.



Rock Cycle

- *What are the processes that form sedimentary rock?*

Cementation (Zementierung)

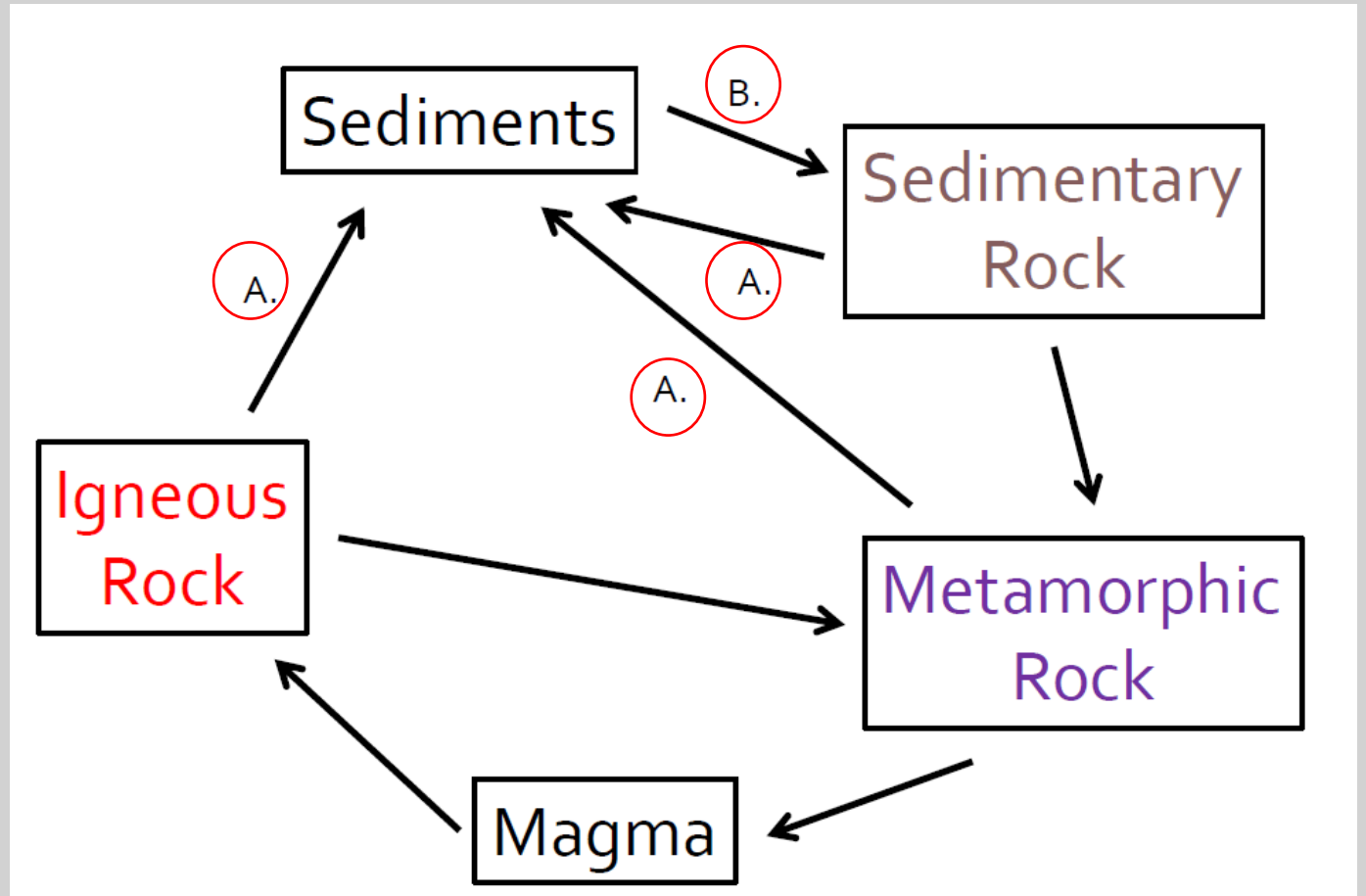
- New minerals stick the sediment together just like cement.
- This holds the grains together tightly.



Rock Cycle

Sedimentary Processes

- A:** Weathering and Erosion
- B:** Compaction and Cementation



Rock Cycle

REVISION PART 1

Weathering

Erosion

Deposition

Sedimentation

Rock Cycle

Metamorphic Rock

- Formed by **heat** and **pressure** while buried deep **below** Earth's surface.
- Has a layered or banded (ribbon like) appearance or may have crystals.
- Gneiss, Marble, Slate



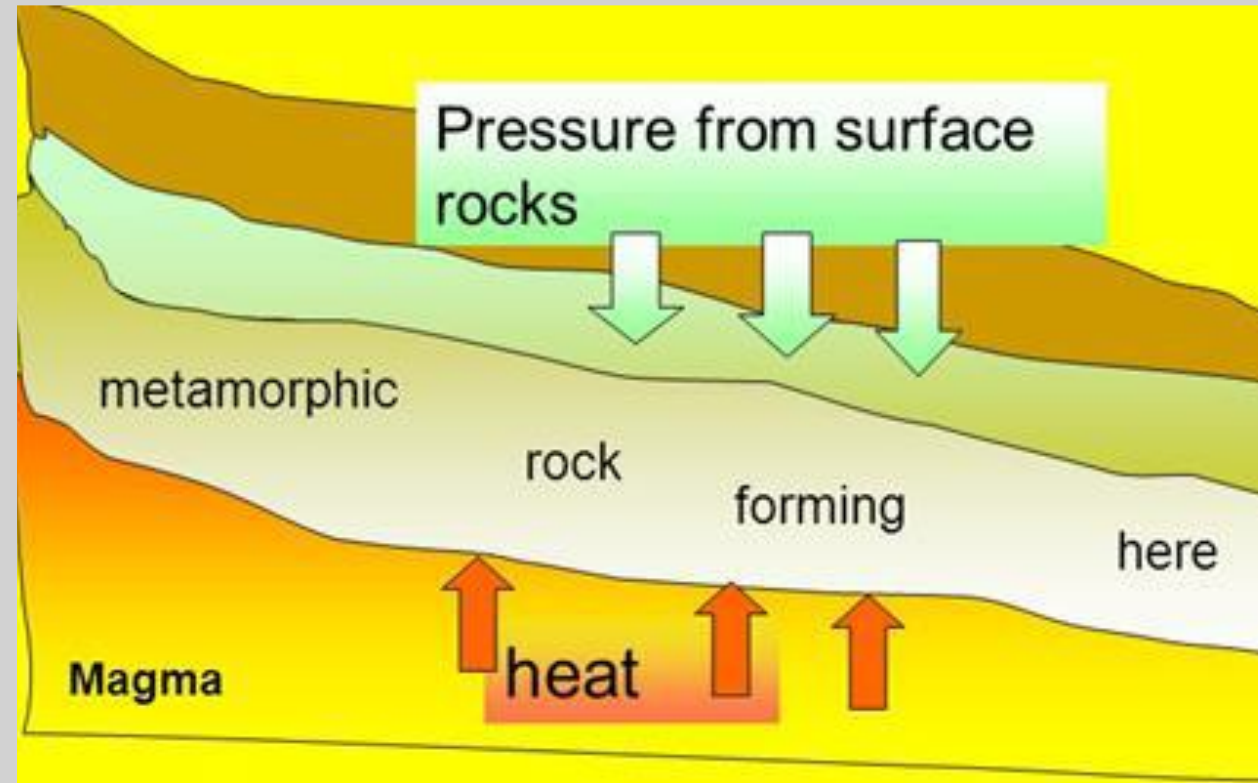
Rock Cycle

What are the processes that form metamorphic rock?

1. **Heat**(caused by magma)

Temperatures high enough to change its structure but not to melt it.

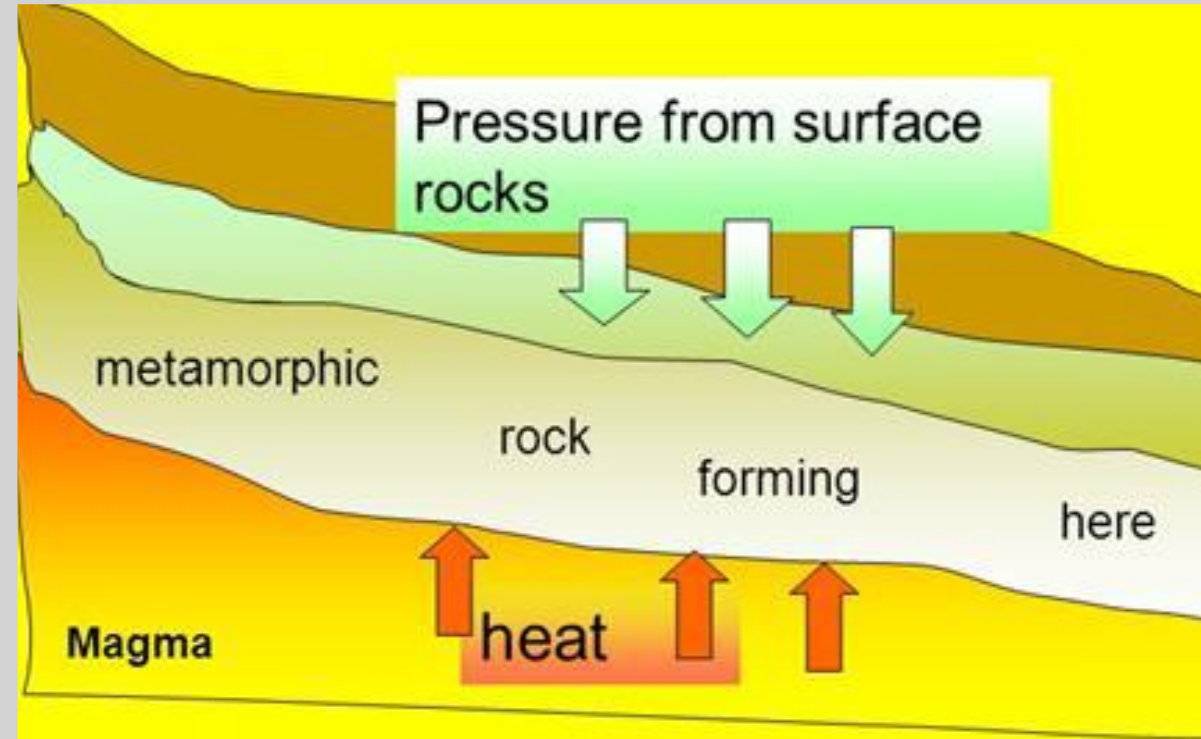
Heat can change sedimentary, igneous, or another older metamorphic rock.



Rock Cycle

2. Pressure

Caused by intense collisions and friction of tectonic plates and pressure from overlying rock layers. Deep under the Earth's surface.



Rock Cycle

Sedimentary Processes

- A:** Weathering and Erosion
- B:** Compaction and Cementation

Metamorphic Processes

- C:** Heat and Pressure

