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GEOLOGY

Importance for society

- Energy industry
  - Climate science
- Mining
- Fossils + Evolution
- Predicting volcanic eruptions and earthquakes
- Engineering for bridges and tunnels

Type of bedrock

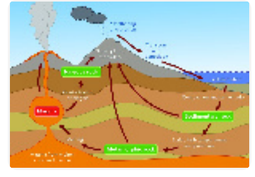
- Type of soil
  - Type of plants
    - Type of animals

Norways geology

- Oslo fjord - Permian
- The Caledonides - Silurian ~ 416 million years ago
- Last ice-age - Pleistocene ~ 10.000 years ago

Plate boundaries

- Grinding against each other
- Move towards each other
  - Can create hotspots and mountain ranges
- Move away from each other

Bedrock

- Metamorphic/ Striped
  - ~ 2,5 billion years old (Norway)
  - Example: Marble
  - Metamorphosis
  - High temperature + high pressure underneath the crust
  - Used to be sedimentary or magmatic rocks
- Magmatic/ Dotted
  - ~ 299 million years old (Norway)
  - Minerals crystalize when melted rocks cool down inside the batholite
  - Example: Granite
- Sedimentary/ Layer on layer
  - ~ 443 - 542 million years old (Norway)
  - Through weathering and compression
  - Fossils can be found inside
  - Example: Sandstone
- Rock cycle