

# **GEOLOGY**

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# DETERMINATION

- 1. History of the term
- 2. Geology as a science



# GEOLOGIC MATERIALS

- 1. Rock
- 2. Unconsolidated Material



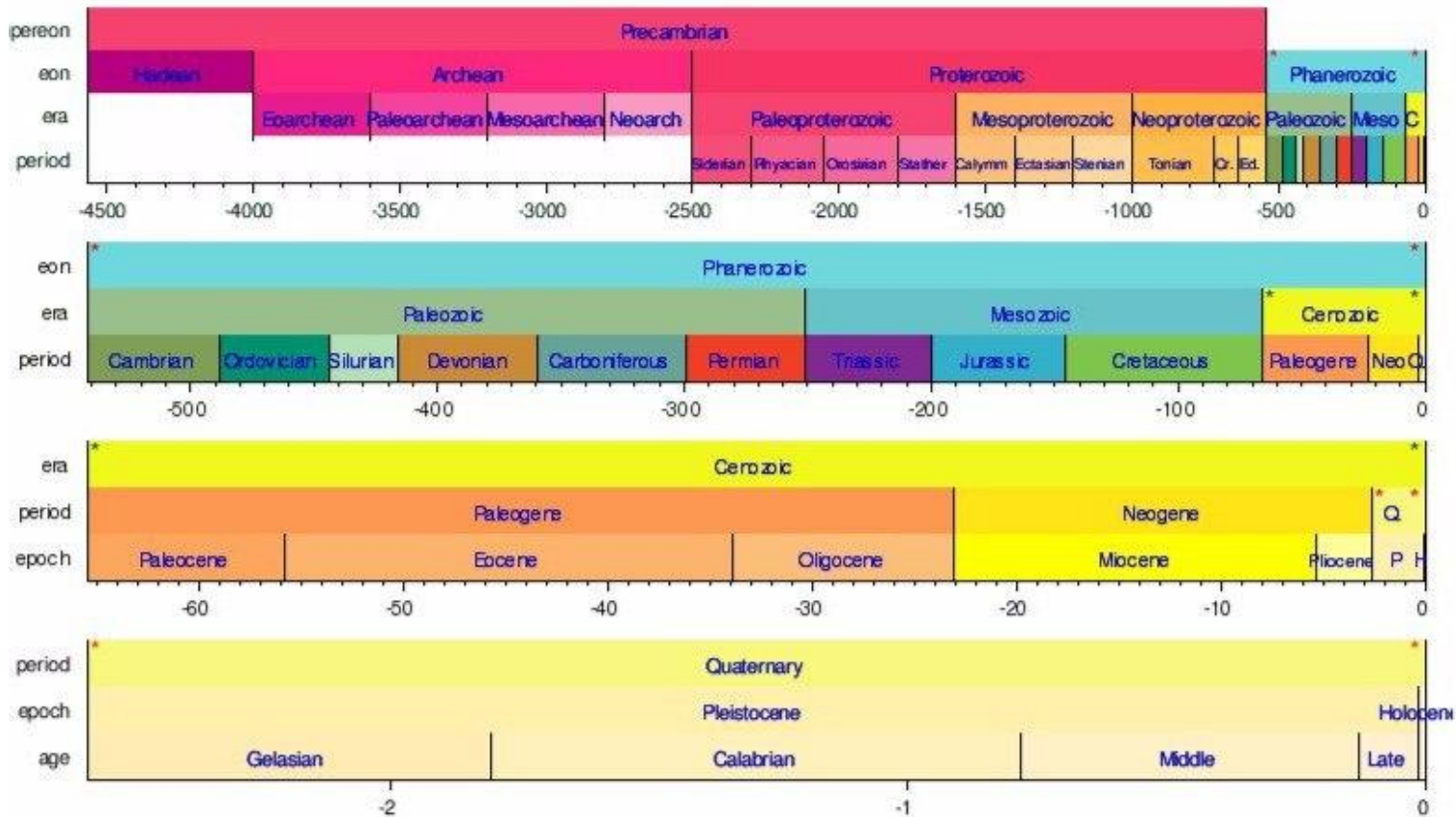
# WHOLE-EARTH STRUCTURE

- 1. Plate tectonics
- 2. Earth structure



# GEOLOGIC TIME

- 1. Important milestones
- 2. Brief time scale



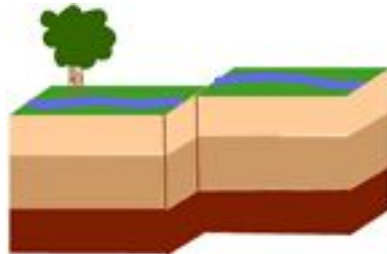
# DATING METHODS

- 1. Relative dating
- 2. Absolute dating

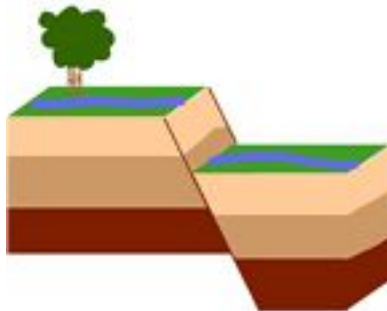


# GEOLOGICAL DEVELOPMENT OF AN AREA

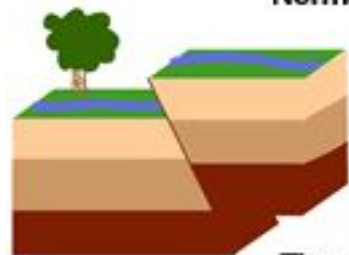
## 1. Tectonic fault



Strike-slip

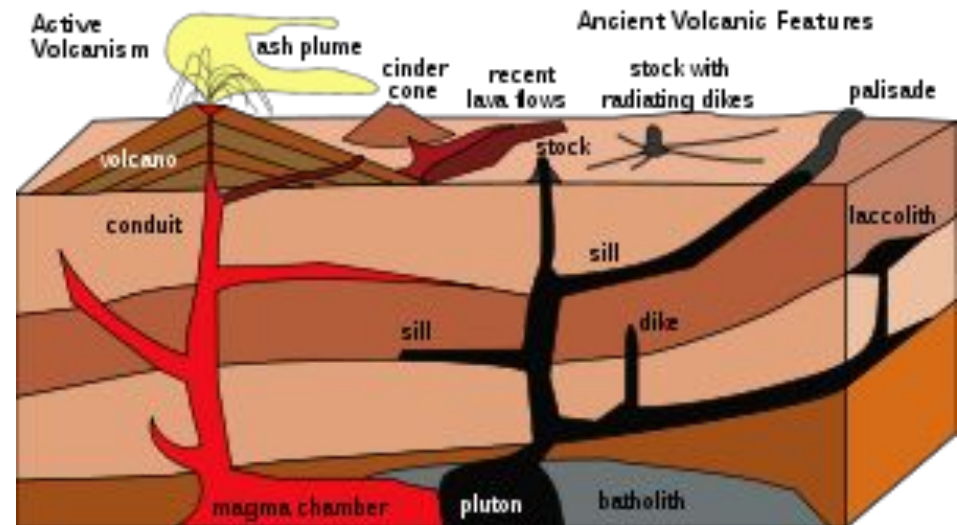


Normal



Thrust

## 2. Igneous activity



# METHODS OF GEOLOGY

- 1. Field methods
- 2. Petrology
- 3. Structural geology
- 4. Stratigraphy





# APPLIED GEOLOGY

- 1. Economic geology
- 2. Mining geology
- 3. Petroleum Geology
- 4. Engineering geology
- 5. Hydrology and environmental issues
- 6. Natural hazards



# HISTORY OF GEOLOGY OF ANCIENT WORLD

- 1. Theophrastus (372-287 BCE)
- 2. Abu al-Rayhan al-Biruni (973-1048 CE)
- 3. Ibn Sina (981-1037)
- 4. Shen Kuo (1031-1095)



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