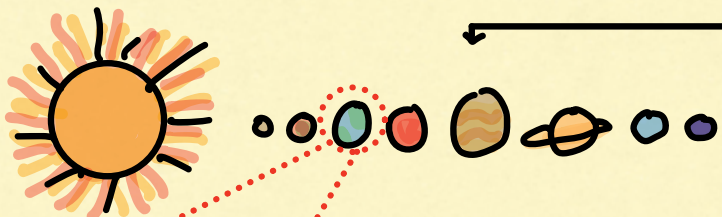
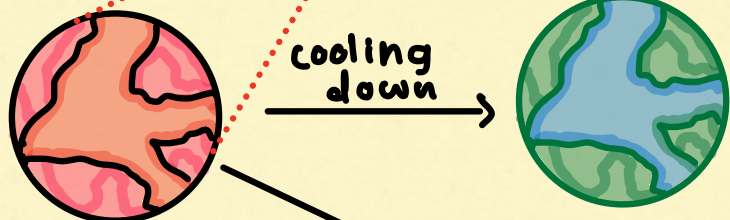


SOLAR SYSTEM



Earth and the other planets were formed: **4.6 Billion years ago**

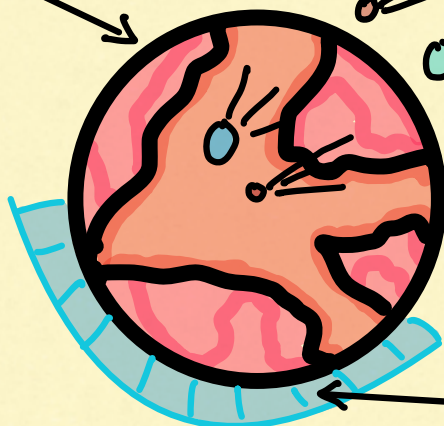


Early earth

At the beginning of the solar system

[4.6 Billion years ago]

1st days of earth at the beginning of the solar system had **chunks of rocks and ice** being bombarded on earth surface



1st atmosphere had a little **O₂**

Bombarded chunks of ice condensed



Oceans were formed

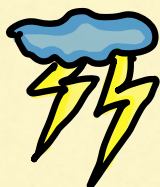
Some hydrogen quickly escaped into space



Volcanic Eruptions



extreme UV radiations



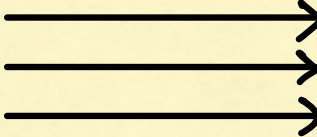
Lightning



Hydrothermal and Alkaline vents

Along with earth's reducing atmosphere

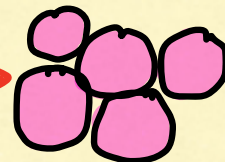
(favoured)



synthesis of organic molecules

Simple organic molecules

polymerization



macromolecules

Made life possible on earth ♡♡



Biochemical Evolution
[3.5 Billion years ago]

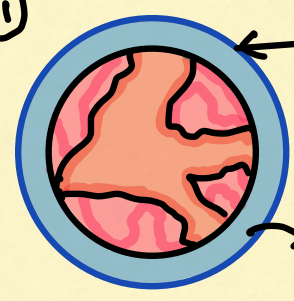
∴ Life on early earth began 3.5 B years ago

→ This theory aroused from the hypothesis based on chemical and physical process of early earth

Formation of 1st cells :

Emerging force of sequence of 1st cells
Natural selection 4 main stages

① Atmospheric conditions of early earth favoured the **abiotic synthesis** of small organic molecules



Atmospheric Conditions → **Abiotic synthesis** from inorganic molecules → small organic molecules eg:- Amino acids

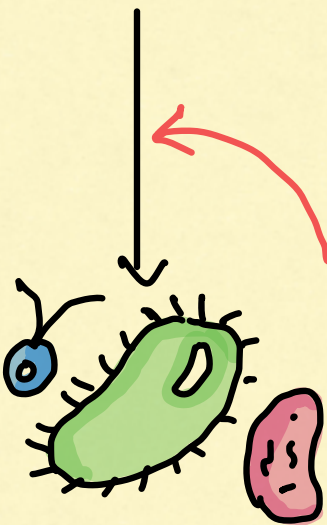
↓ **Polymerization**

② organic macromolecules

eg:- Amino acids → proteins
N-base + Sugar + phosphate } → **Nucleic acids**

← **Packed into membranes**

③ proto cells



Made inheritance possible on earth

④ Gained self replicating ability

membrane bound microorganisms

Tg: @typicalmidgardian