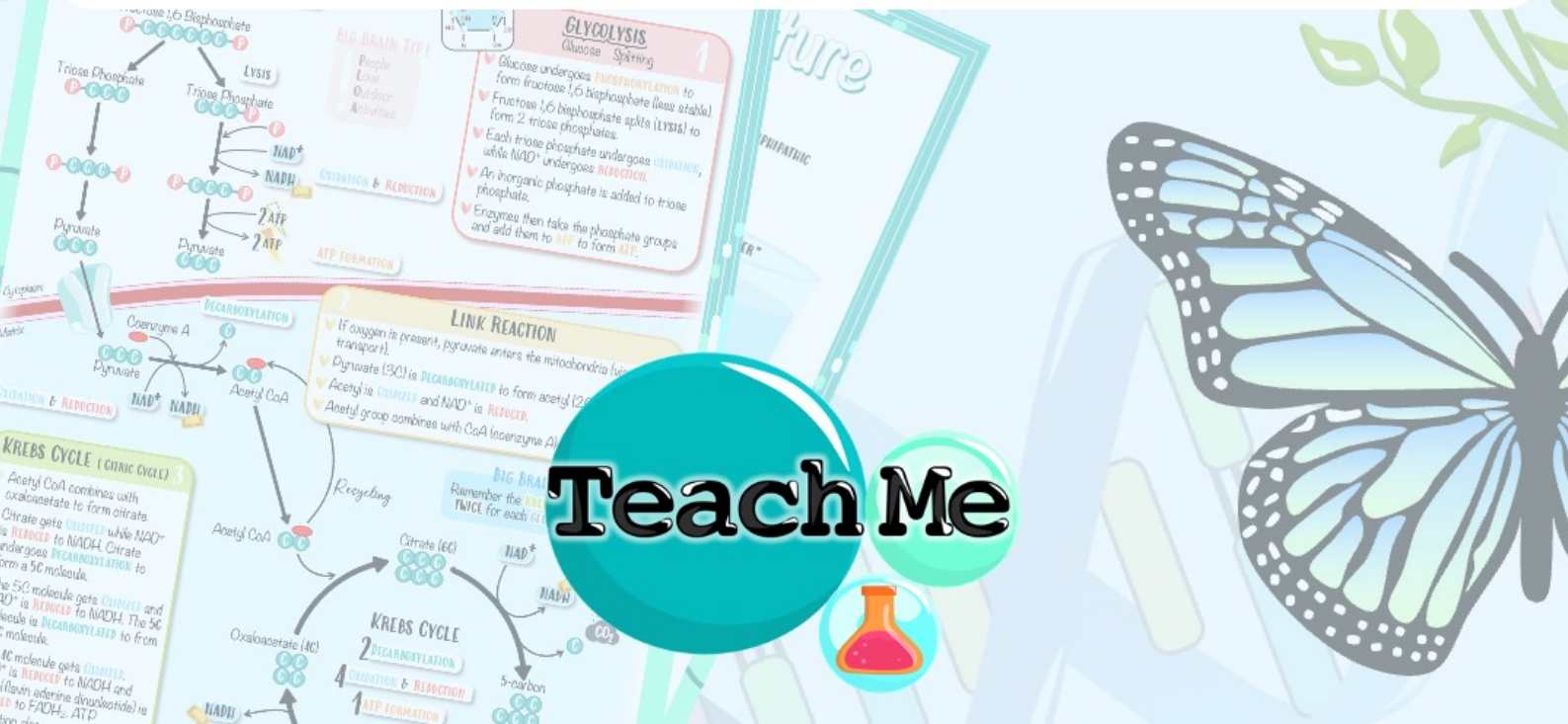


TeachMe

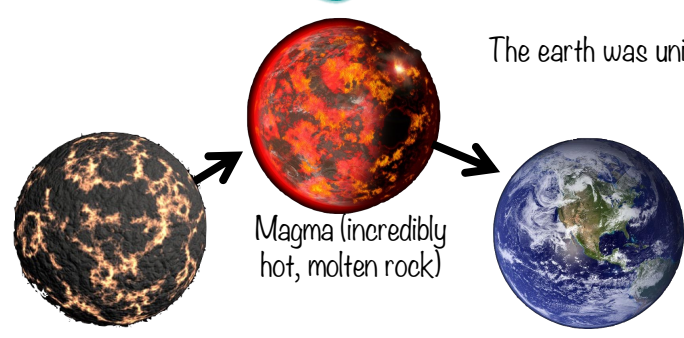
# STUDY NOTES

## A1.1 ORIGIN OF WATER ( HL)

Last update: 2024.04.07



# Origin of Water (HL)



The earth was uninhabitable but cooled down enough until it was able to hold water.

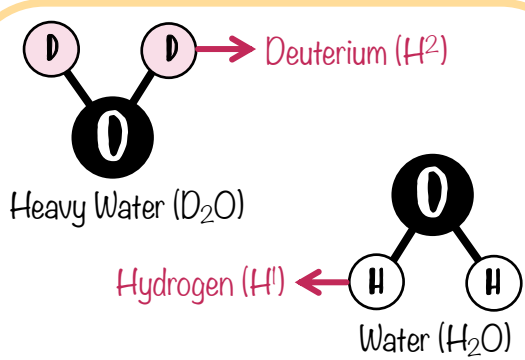
HOW?

## ASTEROID THEORY

Asteroids containing small amounts of water, would collide with the incredibly hot, magma earth. Enough collision would eventually cool down the earth.

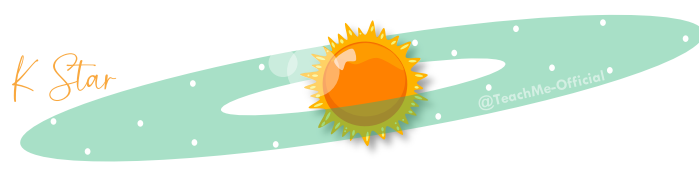


## EVIDENCE

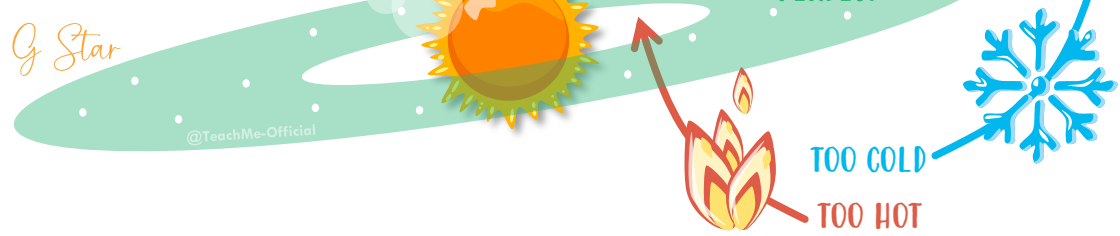


There are two types of water; water and heavy water. The ratio between these two on earth is similar to the ratio between them on the asteroids. Very likely that earth's water comes from the asteroids when they collided.

**GOLDBLOCKS ZONE ( HABITABLE ZONE)** – Area in solar system that would allow water to exist in its liquid form.



Our sun is a G star!  
(we have a large goldilocks zone)



**TO SUPPORT LIFE, A PLANET SHOULD...**  
be in the Goldilocks Zone

- Water (Liquid form)
- Suitable temperatures, Gravitational pull
- Atmosphere & Magnetic field (protect from sun)

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.