

## Formation of the solar system

GS 106

## Geocentric image

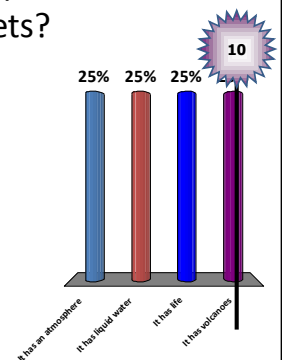


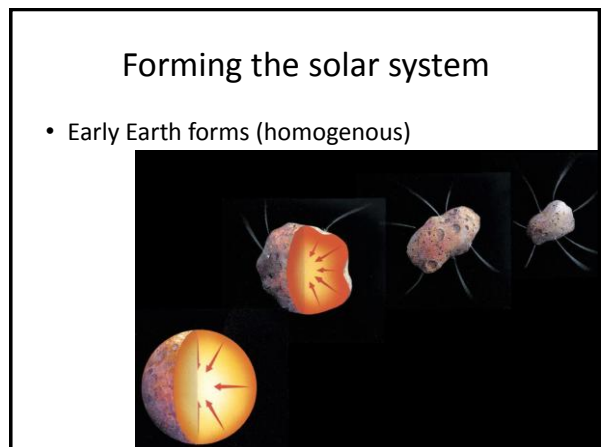
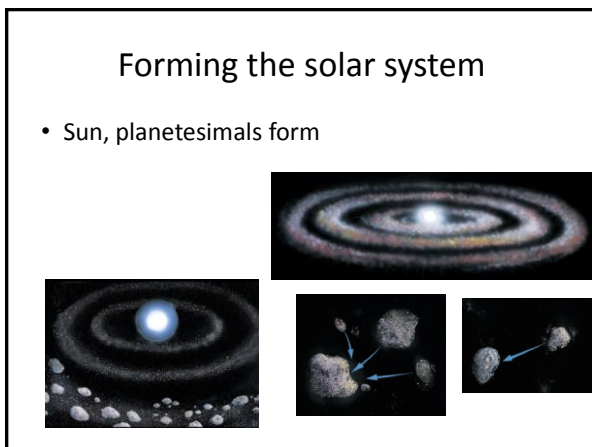
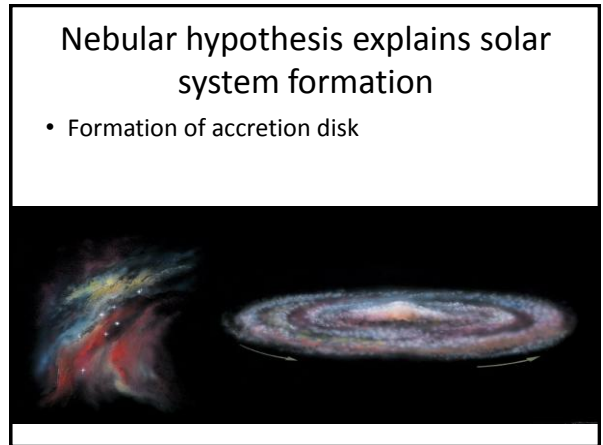
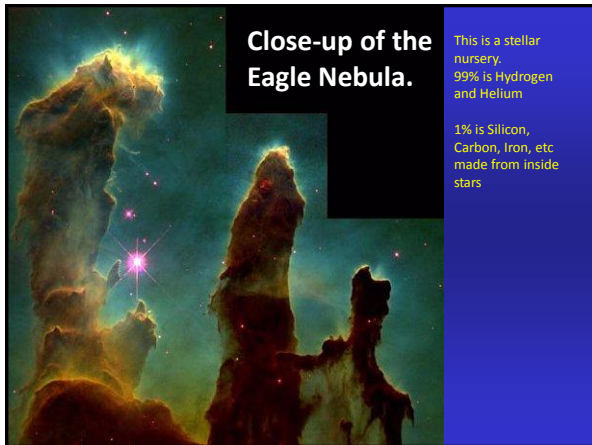
## Heliocentric image



## What sets Earth apart from other planets?

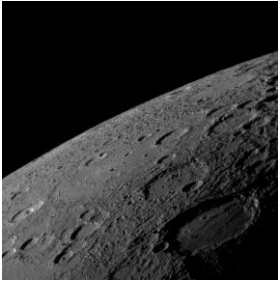
1. It has an atmosphere
2. It has liquid water
- ✓ 3. It has life
4. It has volcanoes



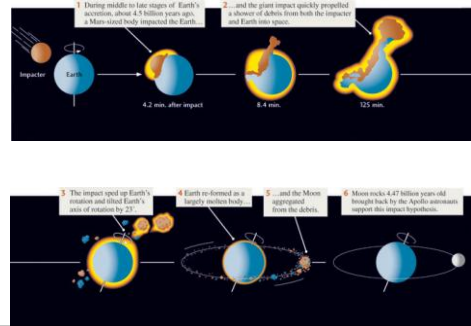




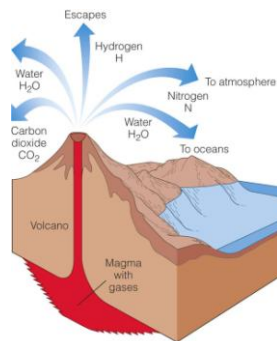
## Nebular hypothesis explains impact craters



## Moon formation

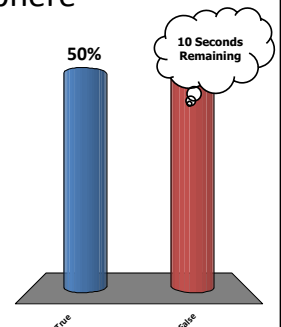


## Forming the atmosphere and oceans



## Humans could breathe early Earth's atmosphere

1. True
- ✓ 2. False



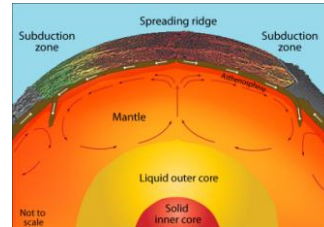
## Atmosphere becomes oxygen rich

Photosynthesis:  $\text{CO}_2 + \text{sunlight} \rightarrow \text{Carbohydrates} + \text{O}_2$

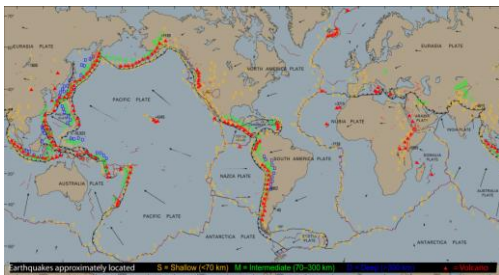


Cyanobacteria were the some of the first photosynthesizing organisms

## Earth has an internal heat “engine” driven by radioactive decay



## Convection buckles and breaks the crust.... Producing volcanoes and earthquakes



## Plate tectonics is a unifying theory

