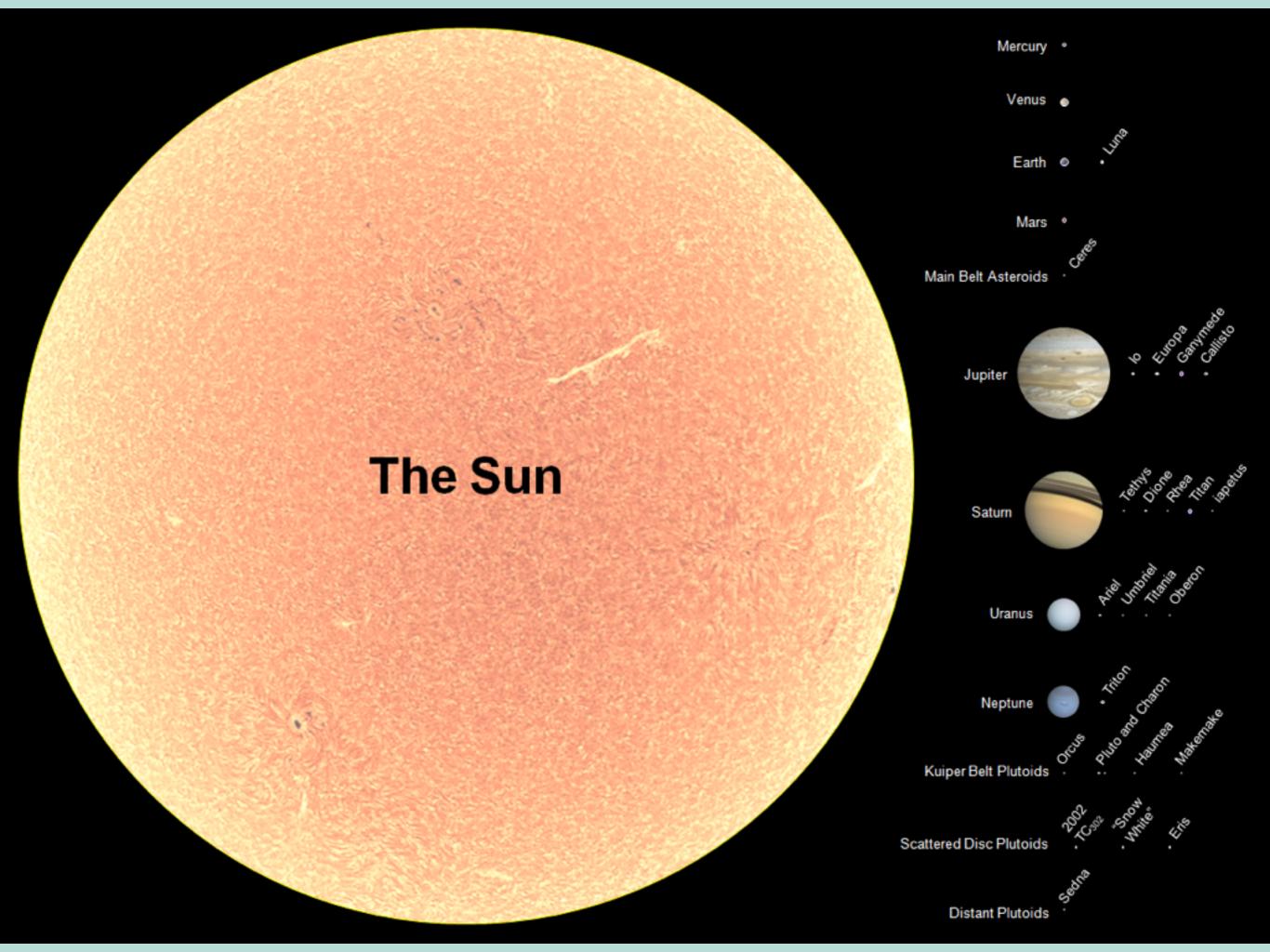
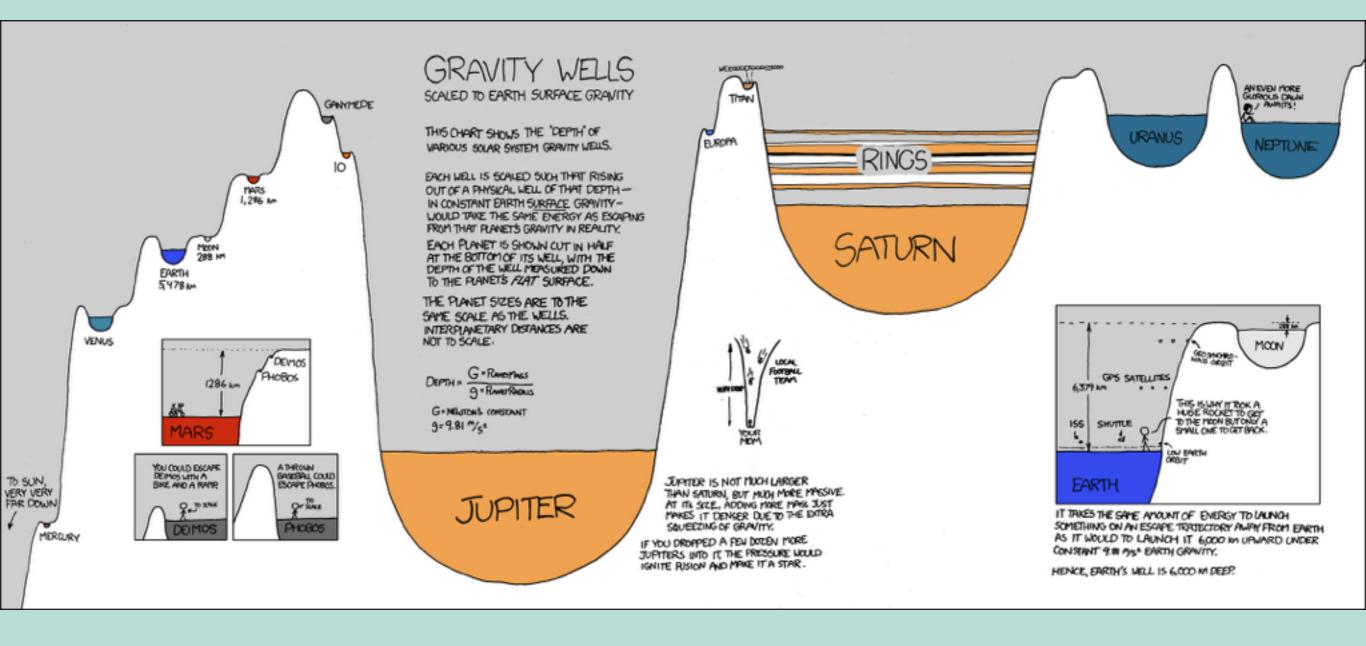
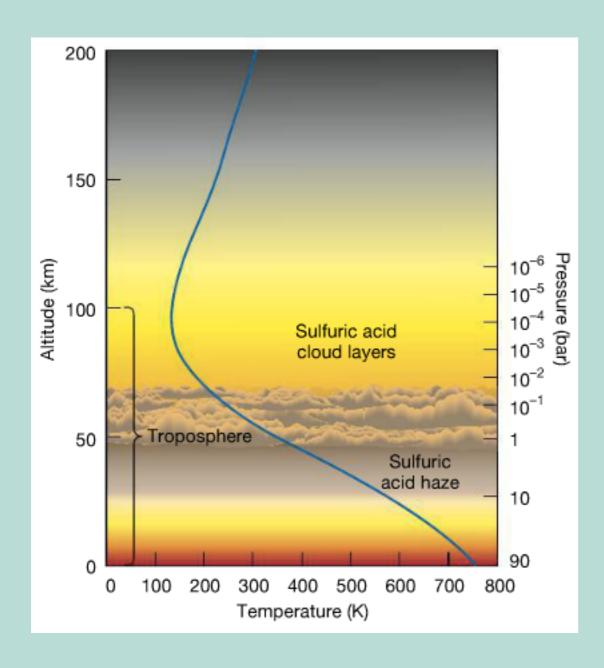


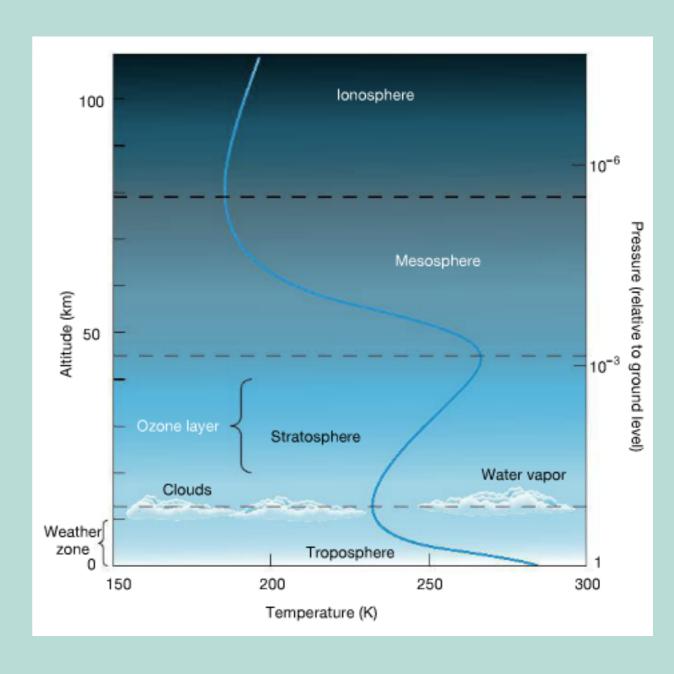
Important topics that may or may not be on the exam.



	Distance from Sun	Radius	Mass
Mercury	.38	.38	5%
Venus	.7	1	1
Earth	1	1	1
Mars	1.5	0.5	10%
Jupiter	5	10	300
Saturn	10	10	100
Uranus	20	4	15
Neptune	30	4	17



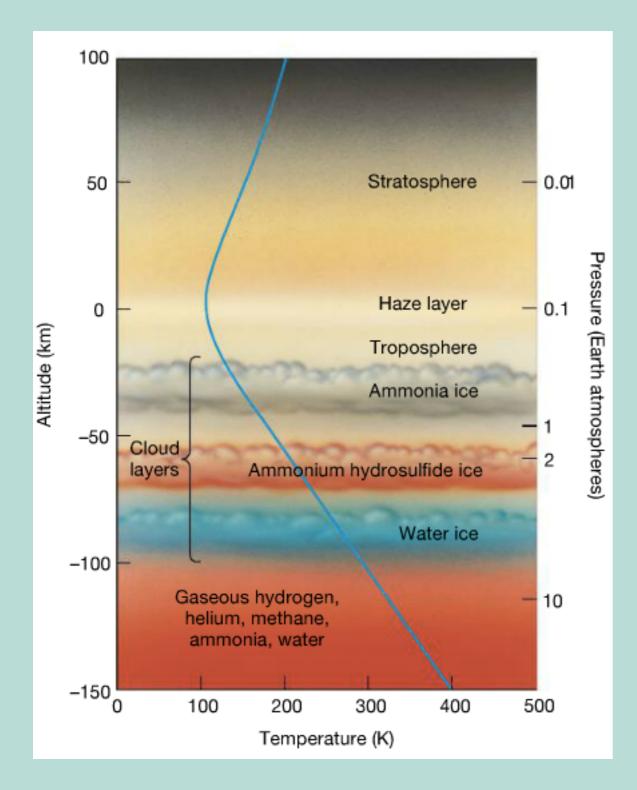


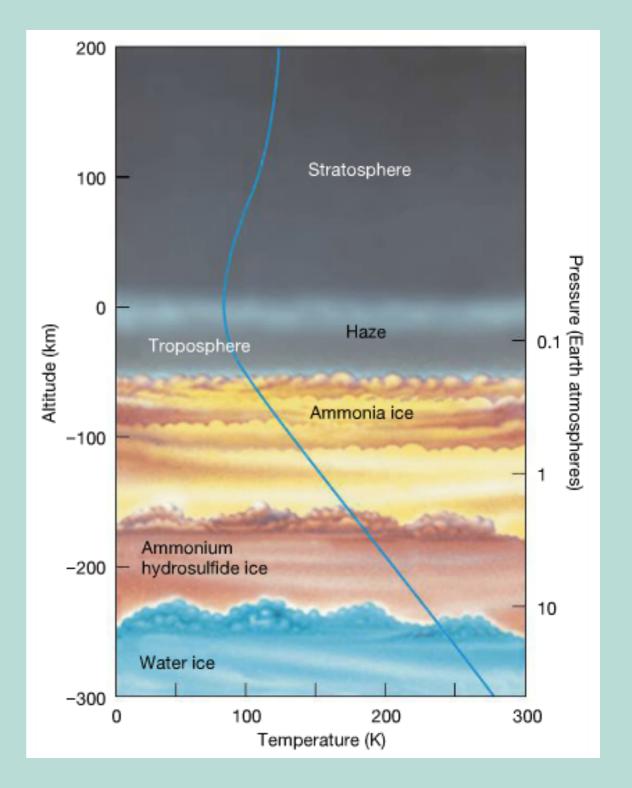


Venus

Earth

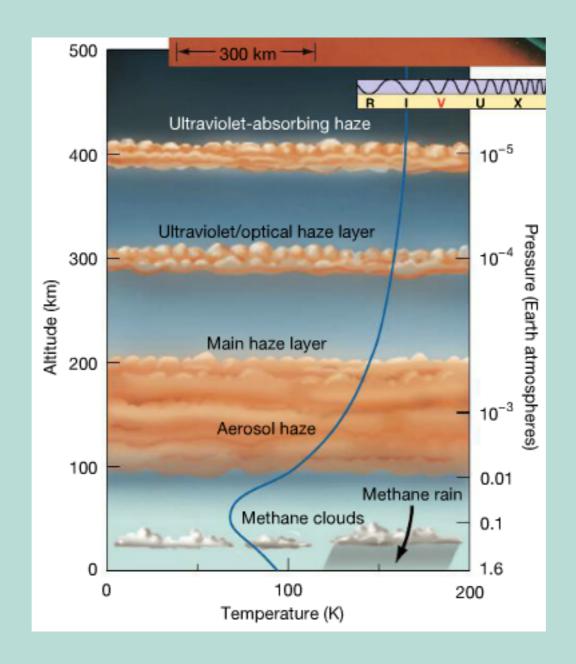
Zone & Belt Structure





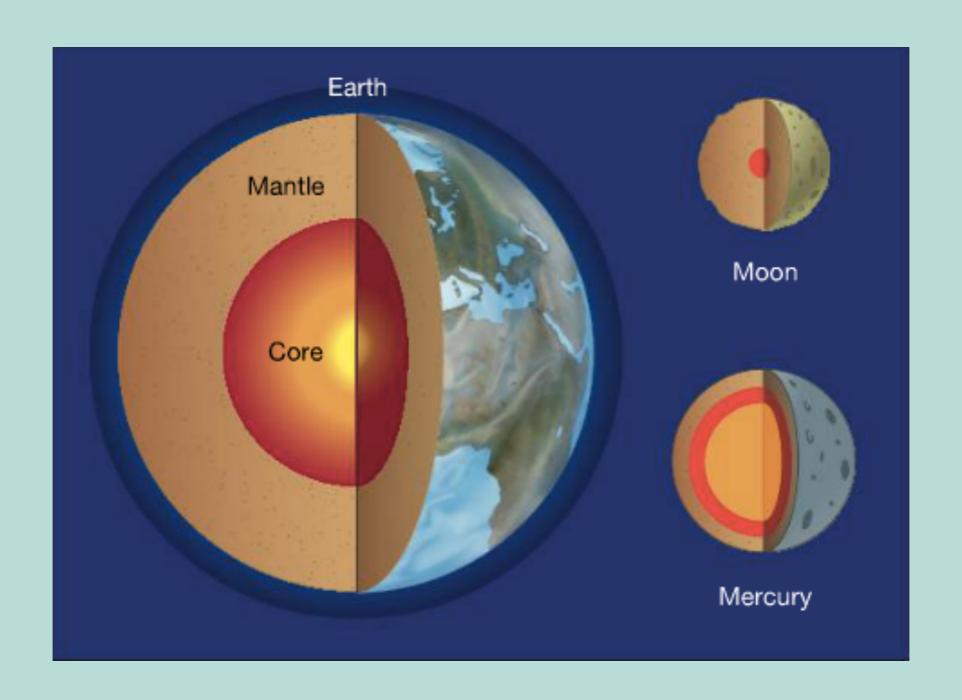
Jupiter

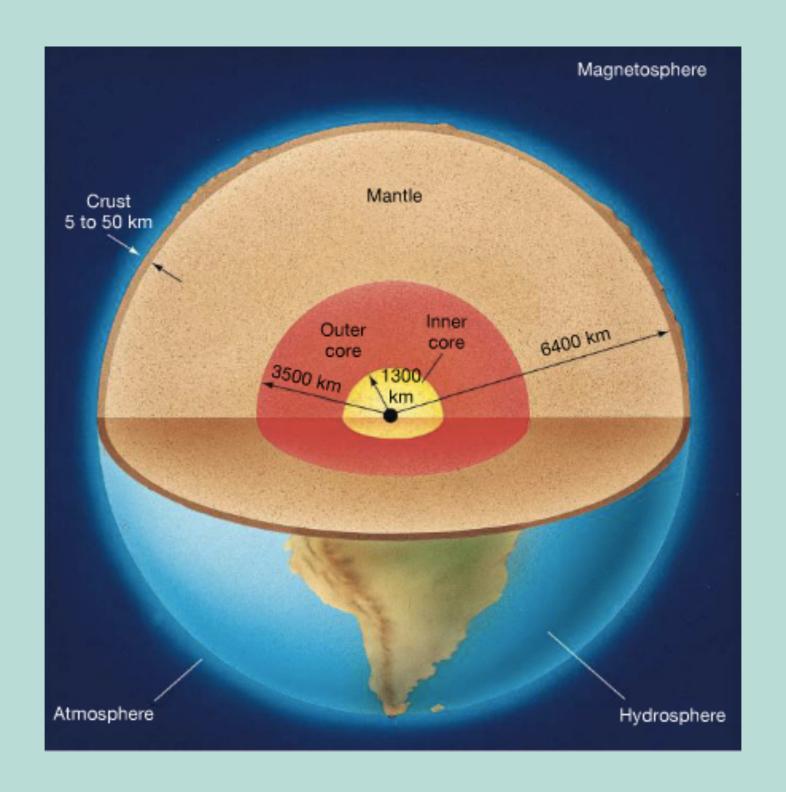
Saturn



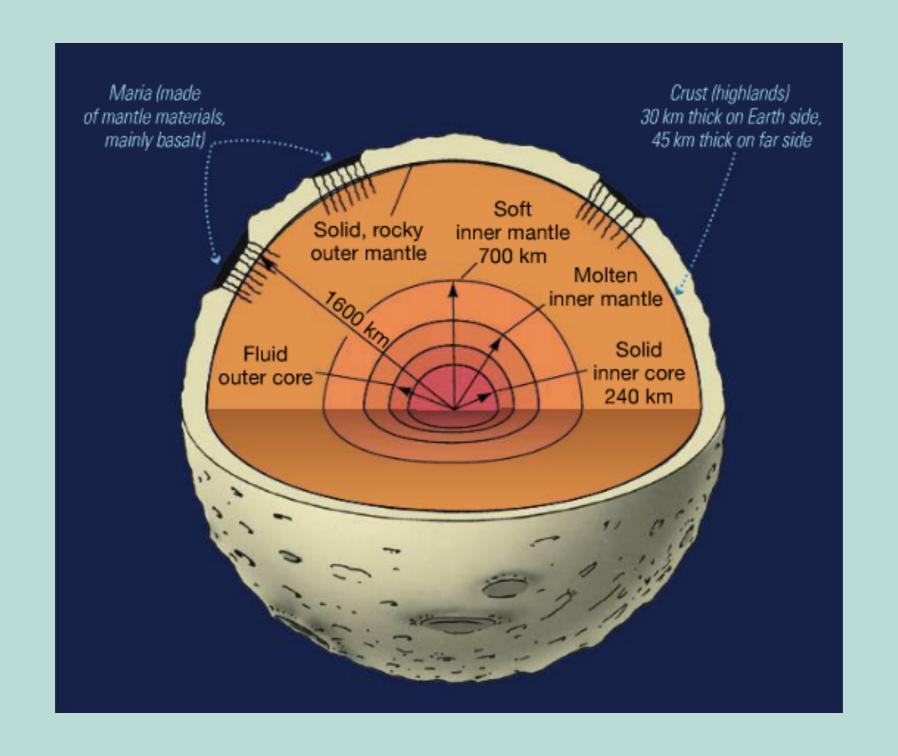
Titan

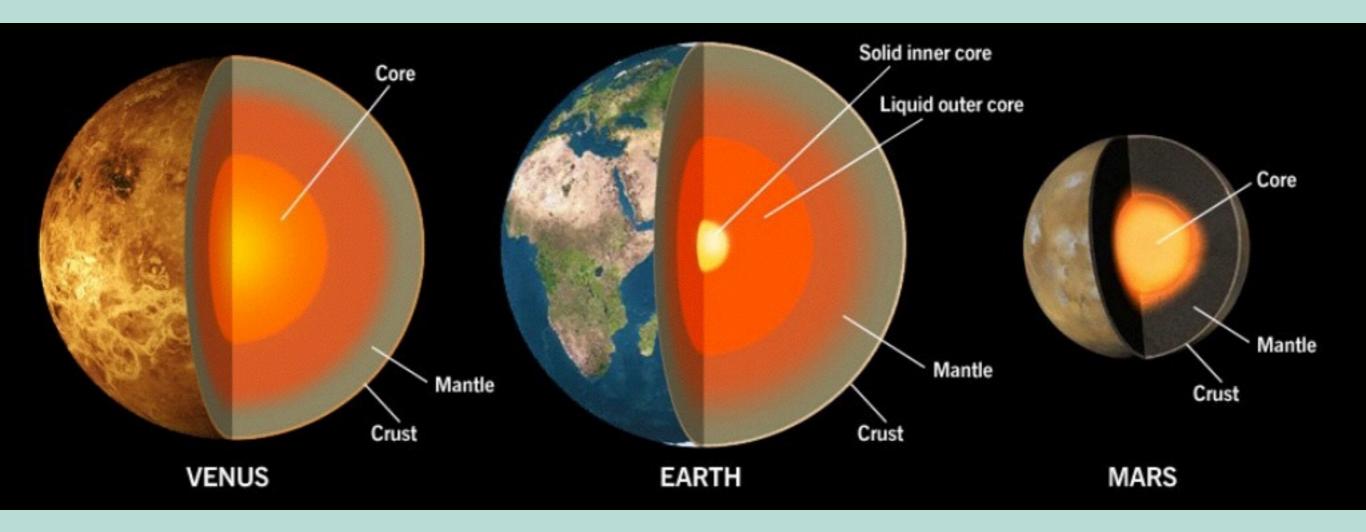
...And that's it!

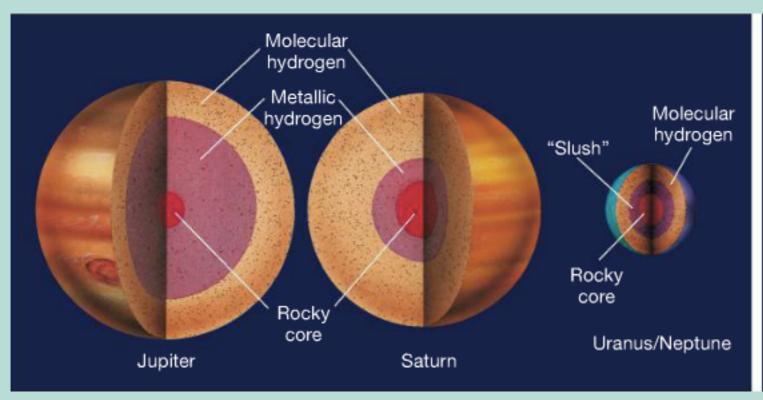


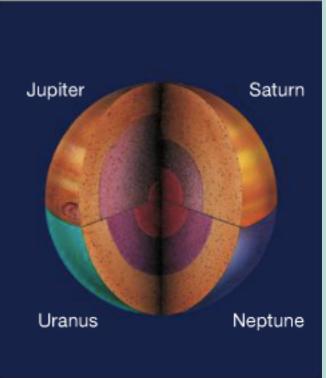


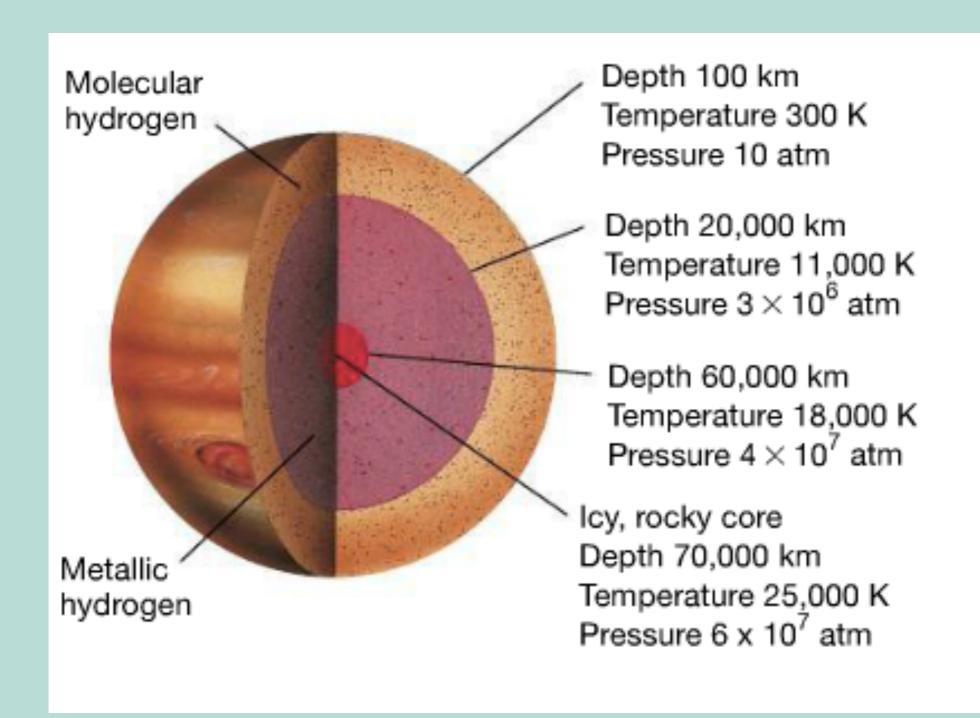
Contains Oceans (hydrosphere)
Huge Solid Iron Core

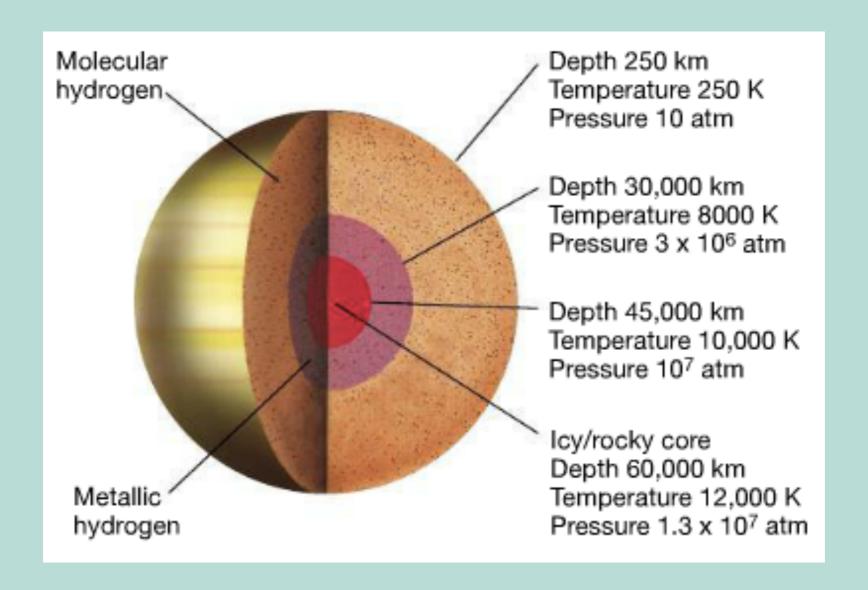












Mercury

- Most "eccentric" planet
- Inferior Orbit (28 degrees)
- Large Day/Night temperature swing
- Caloris Basin
- Magnetic Field

Venus

- Earth's Twin
- Aphrodite Terra
 - Maxwell Mons
- Retrograde Spin
- Inferior Orbit (47 degrees)
 - Hot and Acidic

Earth

- Life
- Large quantities of Oxygen in Atmosphere (including ozone)
 - Very Dense (5500 kg/m^3, more than twice as much as dense as granite)
 - Carbon Cycle
 - Plate Tectonics
 - Significant Nuclear Heating

THE Moon

- Maria: Younger, lava plains, Earth side, Higher Density
- Highlands: Older, Heavily Cratered, Both sides, Lower
 Density
 - Craters determine age
 - Tidally Locked and Drifting away

Mars

- Ancient Canals
- Valles Marineris
- Olympus Mons
 - Rusty
- Seasons On Mars
- Curiosity and the search for Life

Jupiter

- Differential Rotation (Zones and Belts)
 - Rapidly Spinning Interior
- Massive Magnetosphere
 - The Great Red Spot
- Like all the Jovians, its size and temperature retain hydrogen
- 4 Galilean Moons and tiny ring

Galilean Moons

What are they/Relative Sizes

Io Plasma Torus

Ganymede is the big one

Europa's got tons of water

Callisto's not differentiated. Valhalla

Saturn

Standard Jovian: Magnetosphere, Mostly H, He.,
 Differential Rotation, High Wind Speeds

Rings: Roche Limit, Resonances

Helium Rain

Titan

The Moon with an Atmosphere

Methane Rain, Lakes

Uranus

First non-ancient planet (1781, Herschel)

Rotation Axis tilted 90 degrees

Skinny Rings

Neptune

Dark Matter

 Bluish tint like Uranus due to Methane in upper atmosphere

The Great Dark Spot

Triton

Nitrogen Frost

Retrograde Orbit

Dizzy Dance of Death