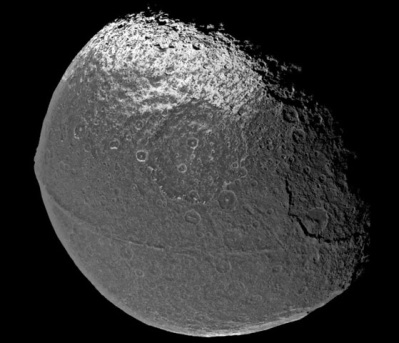
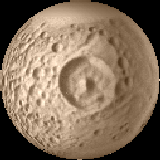
Saturn:

Saturn is the most oblate planet.   
Named after Cronos – Saturn--- father of the main gods. Arm wrestled with Raya and had children. Eats his babies.  
  
9.5 AUs away from the sun

7 rings

62 moons  
 53 are names  
 7 are spherical  
 know 3- Titan, Iopetus, Mimas

* Titan – largest moon of Saturn—bigger than mercury
  + Has thick atmosphere of nitrogen –yellow color (and methane)
  + Titan—draw a big yellow circle
* Iopetus
  + Draw: 
* Mimas is the moon—Herschel is the crater
  + Draw: 

Atmosphere (matches Jupiter)

97% hydrogen

3% helium

Has Bands and Belts

\*\* Density = 0.7 g/cm3 (could float in water)

Diameter = 9.4 times the diameter of the Earth

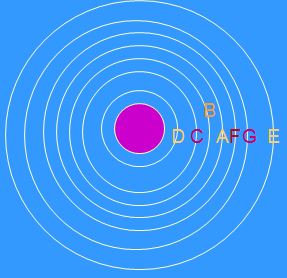
Saturn’s rings are named A, B, C, D, E, F, G

Cassini division

Rings are less than I mile thick and made of ice and rock

Shepherd satellites -- Moons in the rings—located in the F ring --– Pandora and Janice

* ROCHE Limit- when a moon, comet, asteroid comes in a too steep an angle or too fast and planet’s gravity rips it to pieces.
* Rings were formed by perhaps a comet or moon passing within the Roche Limit of Saturn.



Drawing:

**Cassini division is between the A and the B ring**

**Cassini probe is there now**

**Satellites are in the F ring**

Probes: Voyager 1 and 2

Pioneer 11

Cassini - Huygens

Rotates: 10.2 hours

Revolves: 29.5 years

Axis tilt 25.3 degrees

Surface temp: 95 K

Atmospheric Pressure 1.4

Orbital inclination 2.5