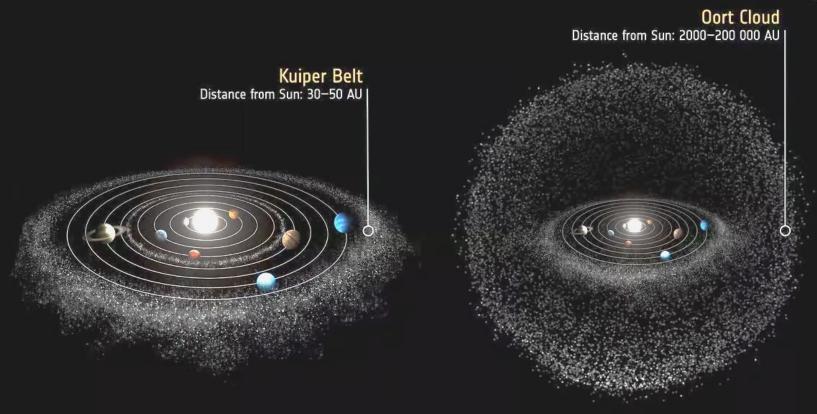
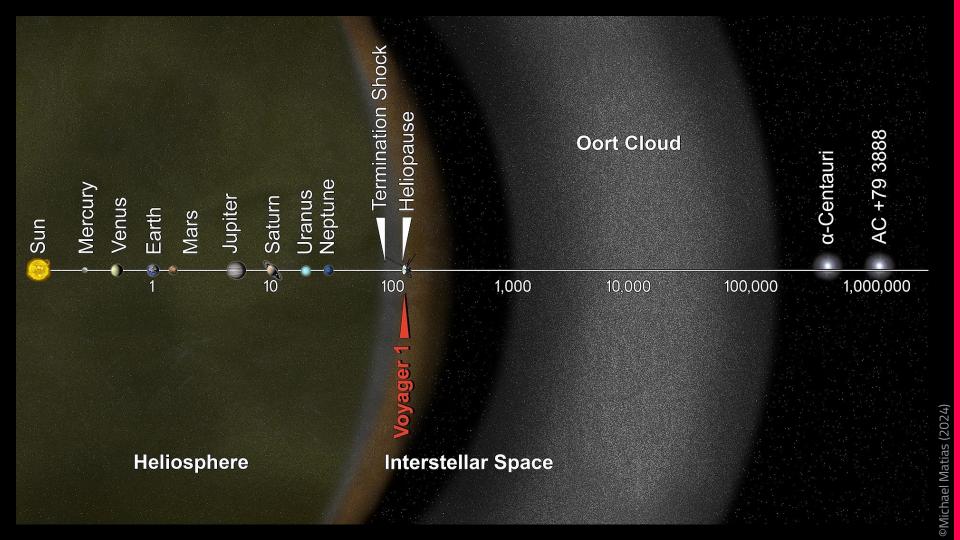
# Lesson 3: The Solar System



How did the solar system evolve?







Terrestrial planets (inner planets)

Gas Giants (outer planets)

### Solar System Major Moons

The Solar System contains 18 or 19 natural self-gravity to make them round. (Why the on the edge.) Two of them are larger than Mercury; seven are larger than Pluto and Eris. If they were not orbiting planets, many of these worlds would be called "planets," and scientists who study them are called "planetary scientists."

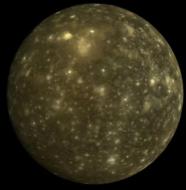
(Saturn's moons), Voyager 2 (Uranus and Neptune's moons). Data from NASA/JPL, processed by Ted Stryk, Gordan Ugarkovic, Emily Lakdawalla, and Jason Perry. Earth's Moon photo by Gari Arrillaga. Montage by Emily Lakdawalla, The Planetary Society, blog@planetary.org.

#### Jupiter...









Callisto

#### Saturn...











Rhea

Earth...







The Moon

#### Uranus...











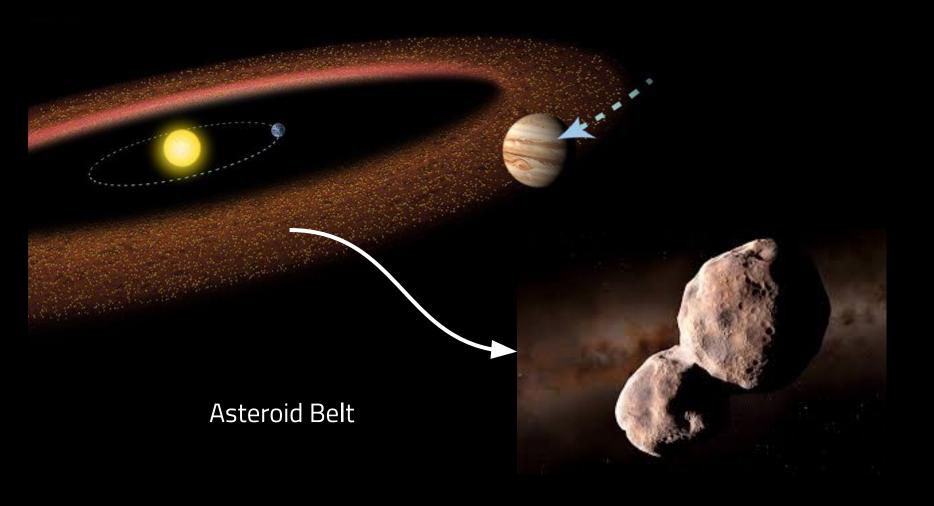




Triton



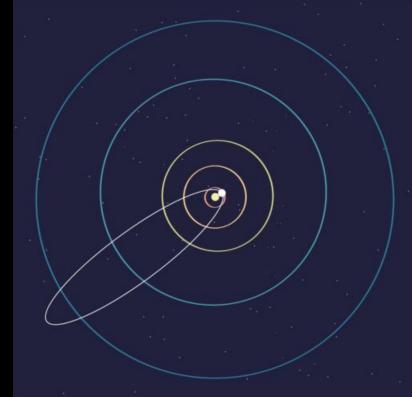


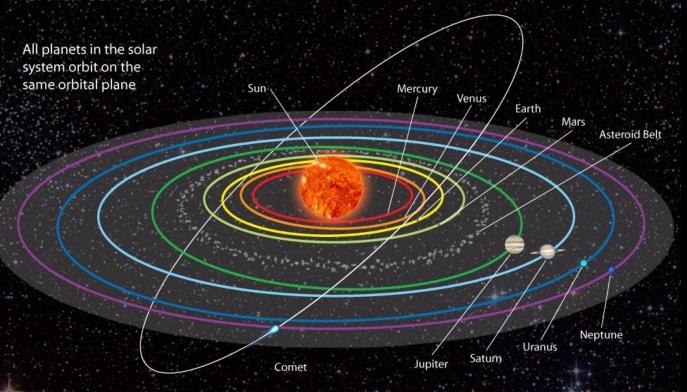




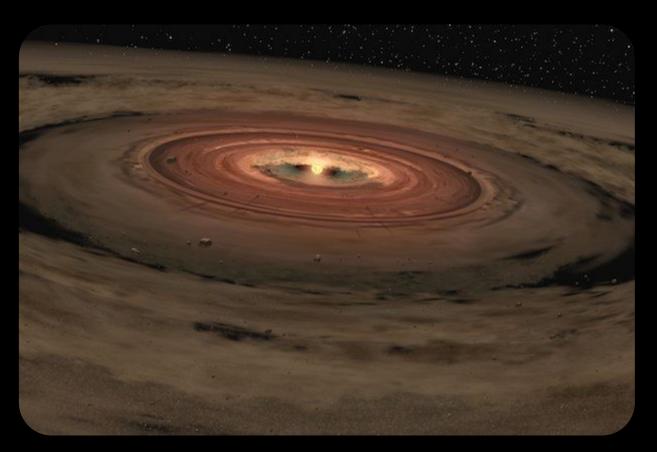


## Comets



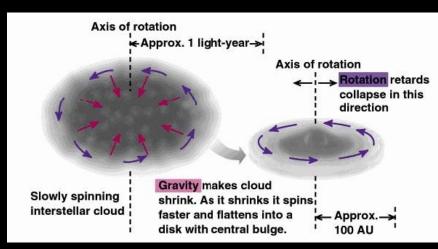


<sup>\*</sup> Many comets exist outside the orbital plane



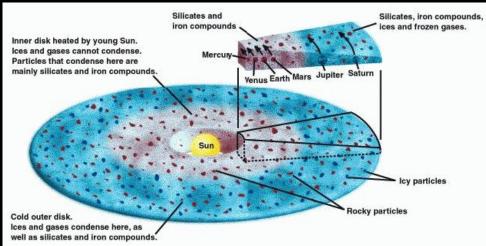
## How are planetary systems formed?

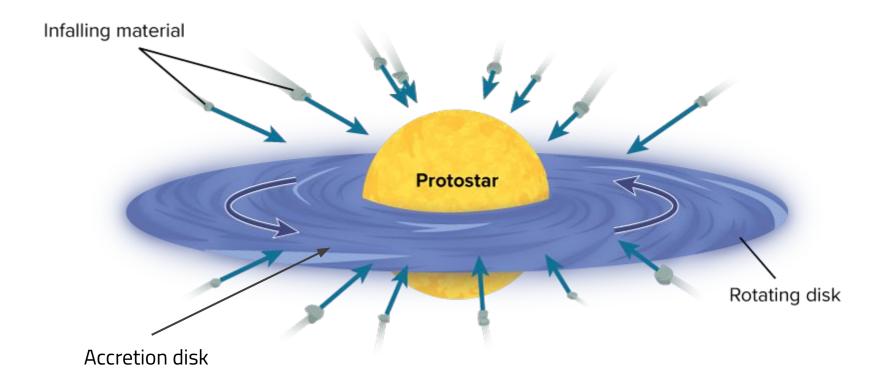
#### Formation of Solar Systems: Nebular Theory



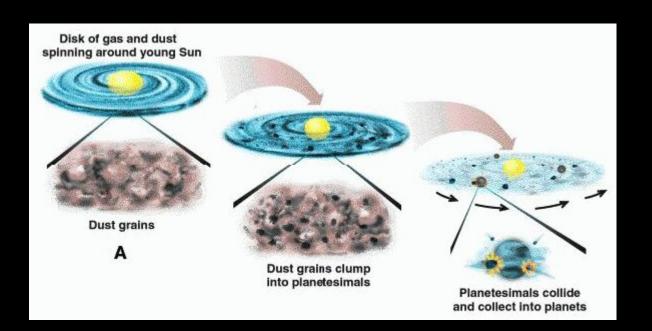
Cloud collapse

## Formation of Protoplanetary disk





### Formation of Solar Systems: Nebular Theory



**Growth of Planets**