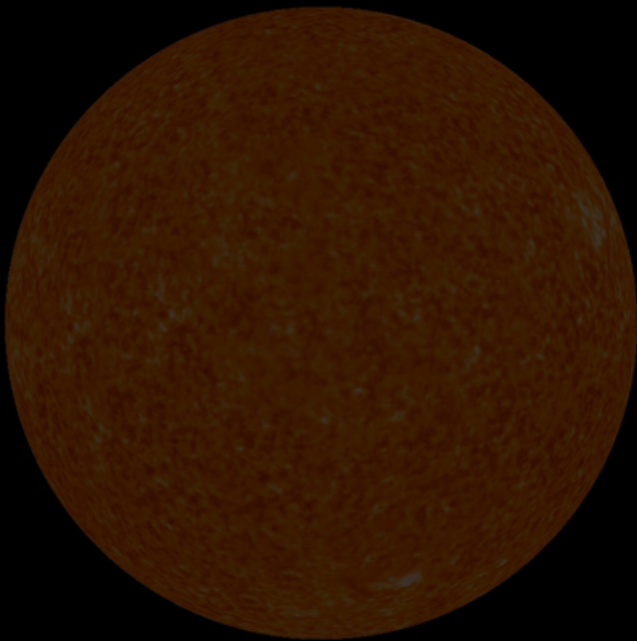


Oct 27 ,2011



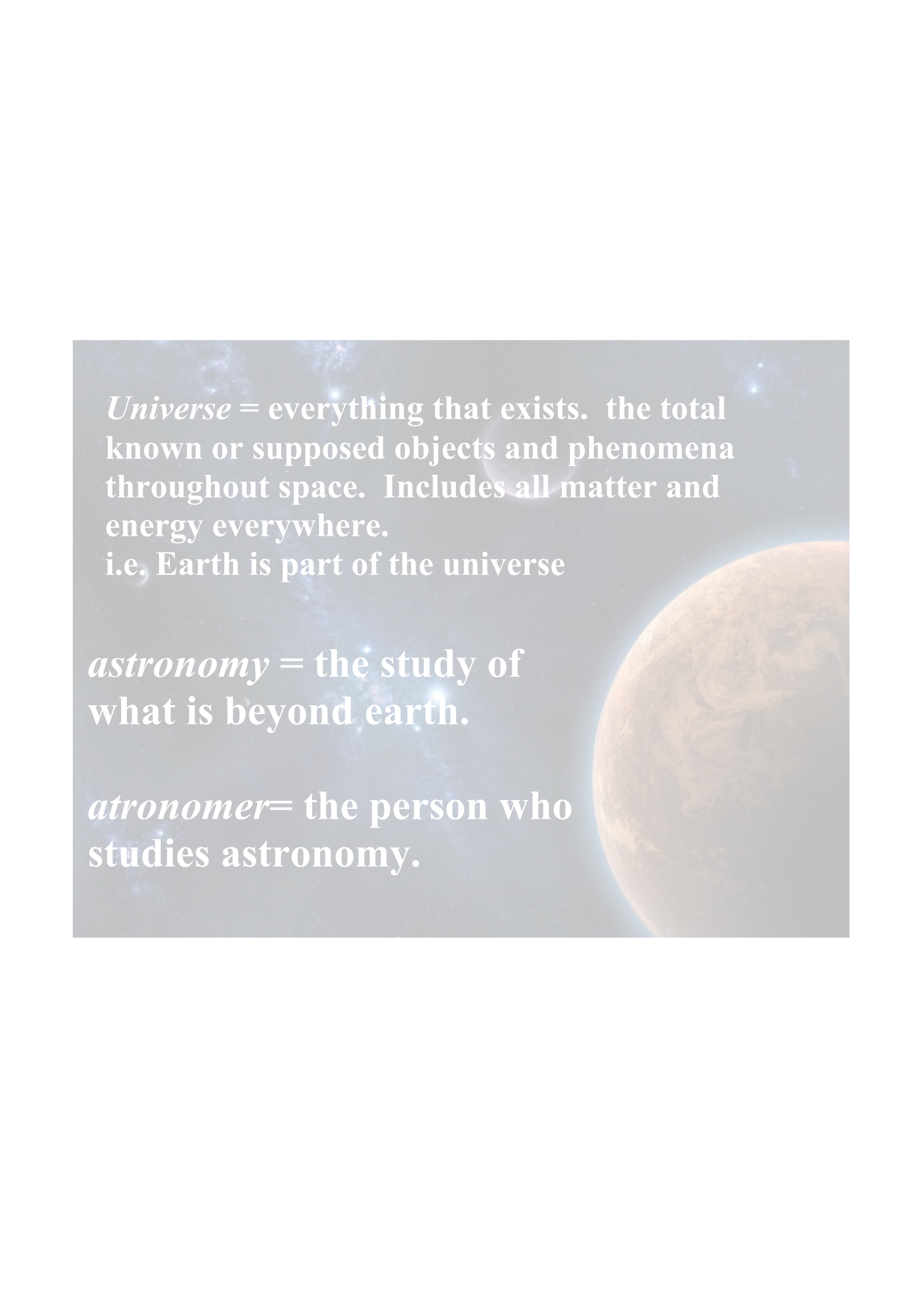
## Warm-Up

How many times bigger is the Sun than the Moon?



The Sun is about **416** times larger than  
the Moon

What can we see in the sky? (pg 400)  
List some things you can see in the  
sky?



*Universe* = everything that exists. the total known or supposed objects and phenomena throughout space. Includes all matter and energy everywhere.

i.e. Earth is part of the universe

*astronomy* = the study of what is beyond earth.

*astronomer* = the person who studies astronomy.

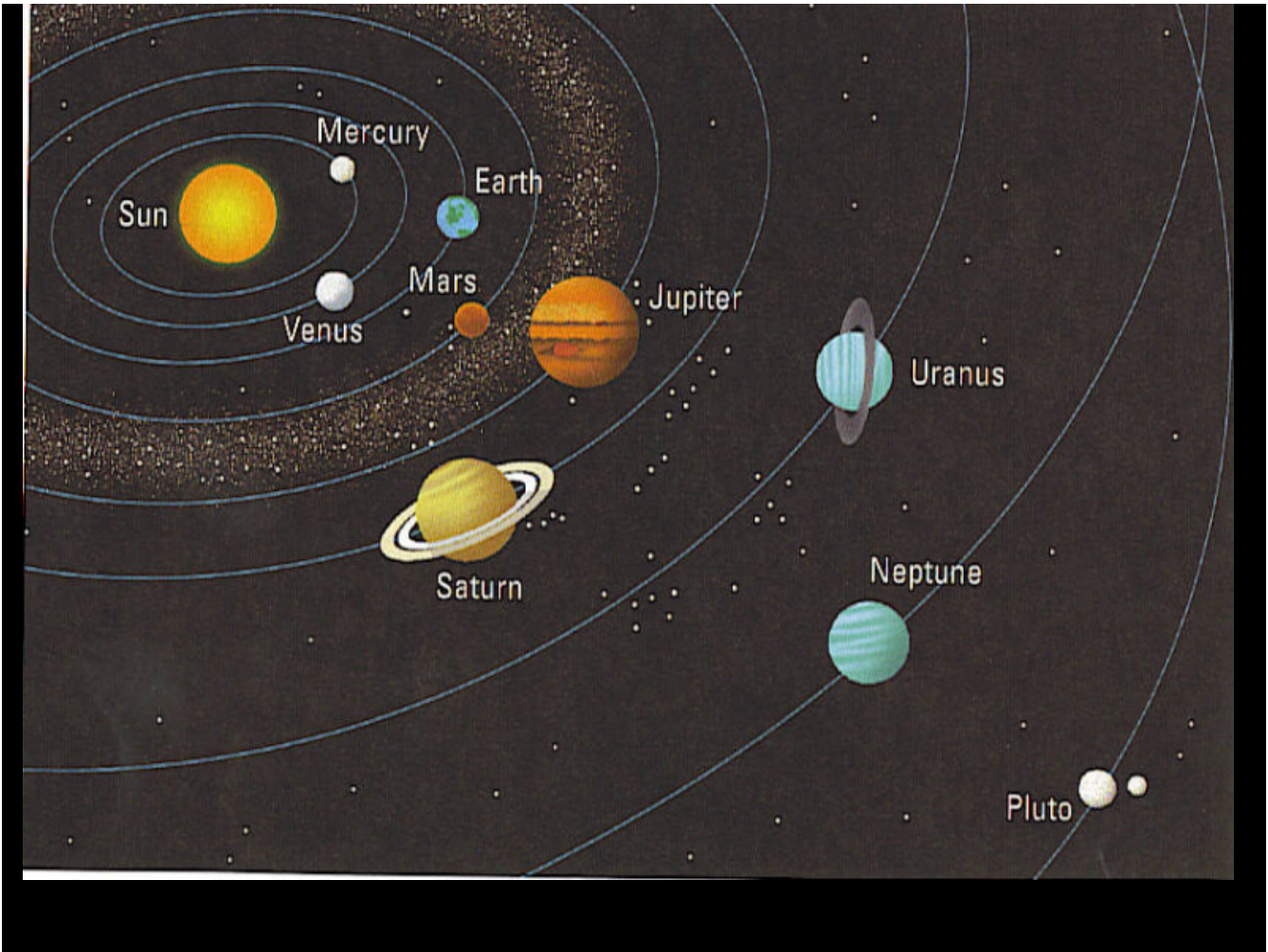
Within the universe is the solar system.

The *solar system* includes our sun and all the objects that travel around it (8 planets, pluto and their moons)

Planets and moons do not emit their own light. They are nonluminous.

Within the solar system we have constellations, stars and planets etc.





# Ways to Remember the Planets

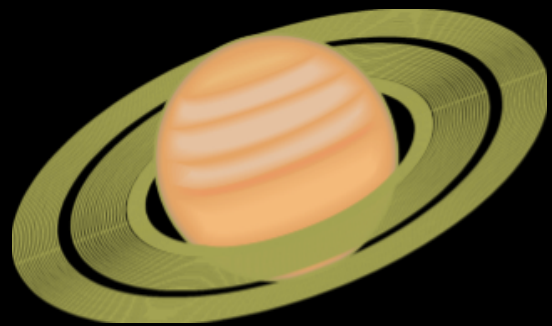
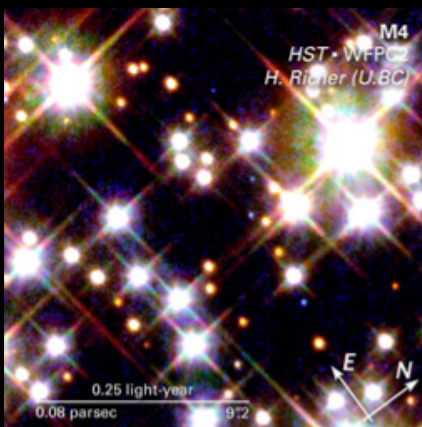
My Very Educated Mother Just Served Us Nuts.

Many Very Educated Men Judge Sphere Unworthy Now.

My Very English Mother Just Served Us Nuts.

My Very Elegant Mother Just Served us Nachos.

A star is matter that emits huge amounts of energy.



A planet is matter, usually a sphere that revolves around a star i.e. earth is a planet and the star we revolve around is the sun.

*Check out table 1 on page 402 to see what the differences are between planets and stars*

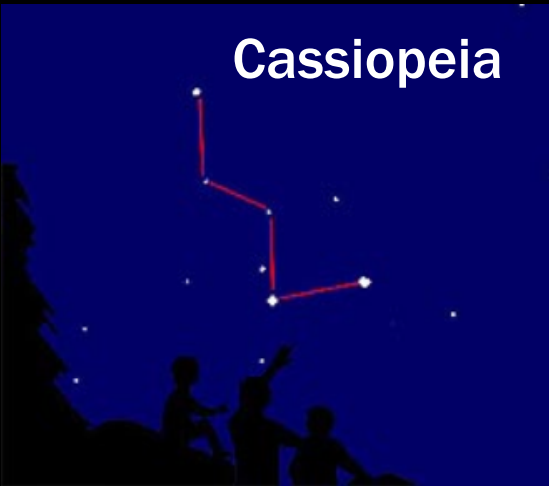


***Constellations*** are stars that form shapes/patterns. They can be in the shapes of animals, characters etc. There are a variety of constellations mostly based on mythology.

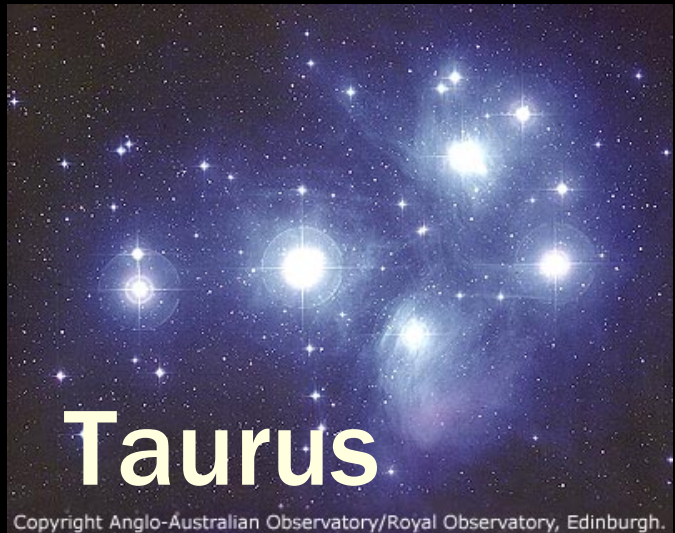
Constellations are used as calenders, time keepers and direction finders



## Cassiopeia



## Taurus



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## Sign Symbol Dates

**Aries** Ram March 21 - April 19

**Taurus** Bull April 20 - May 20

**Gemini** Twins May 21 - June 20

**Cancer** Crab June 21 - July 22

**Leo** Lion July 23 - August 22

**Virgo** Virgin August 23 - September 22

**Libra** Balance September 23 - October 22

**Scorpio** Scorpion October 23 - November 21

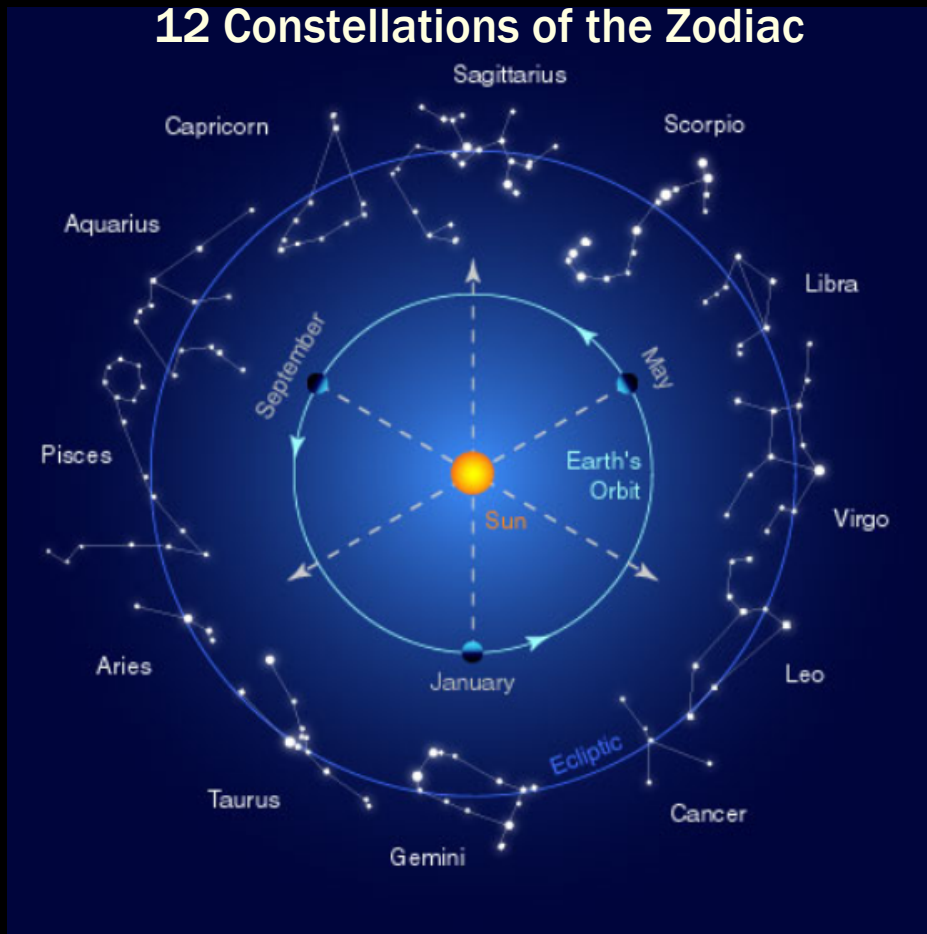
**Sagittarius** Archer November 22-December 21

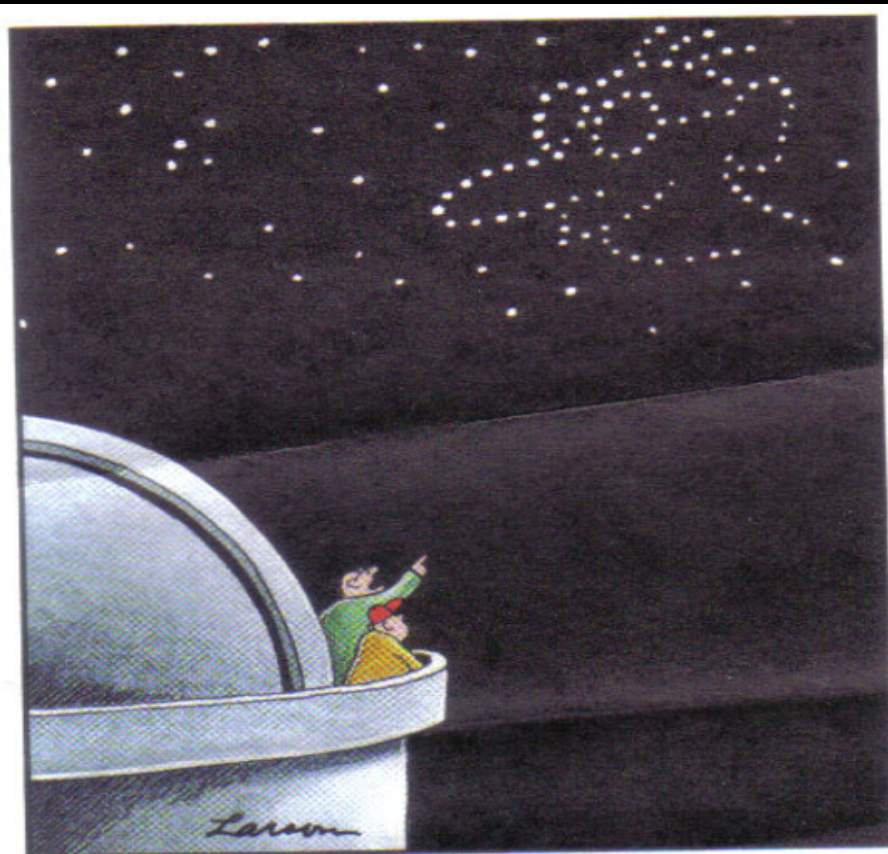
**Capricorn** Goat December 22 - January 19

**Aquarius** Water Bearer January 20-February 18

**Pisces** Fish February 19 - March 20

# 12 Constellations of the Zodiac





"Now that constellation, Jimmy, is simply called 'The Big Dip'!"

## Attachments

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Uranus student response(4).avi

student response no tilt.avi