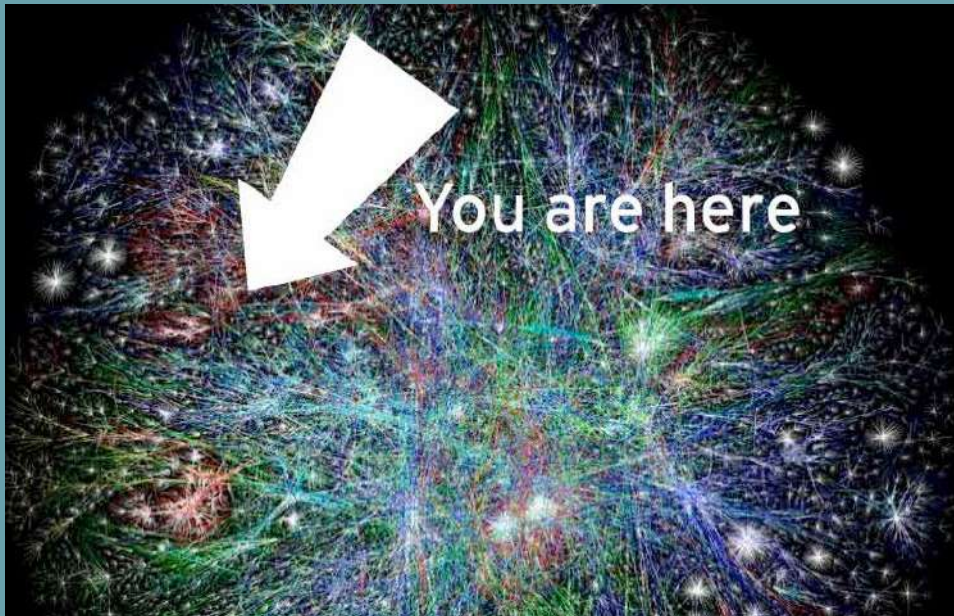


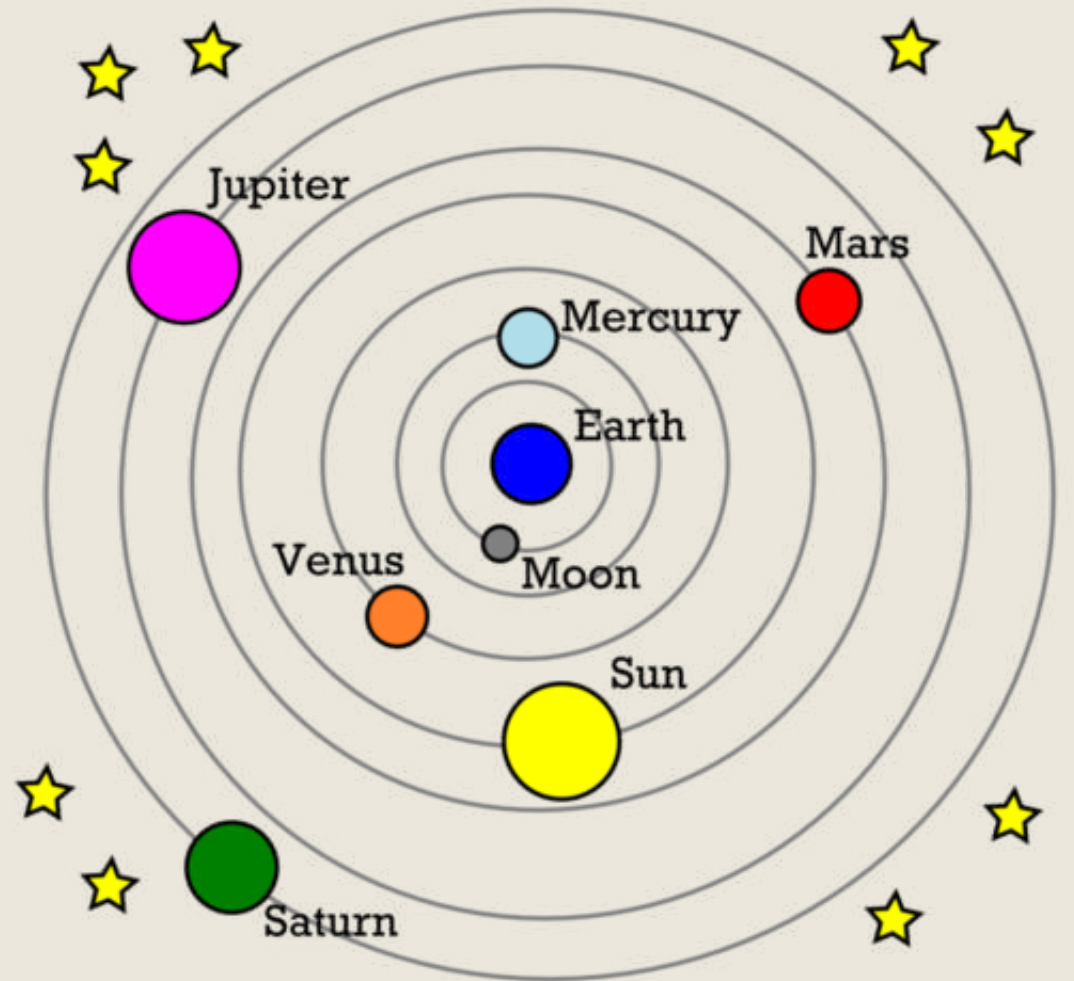
UNIT 6

Astronomy Review



Which 2 scientists believed that everything in our solar system revolved around Earth (the incorrect **geocentric model**)?

- A. Copernicus & Aristotle
- B. Ptolemy & Aristotle
- C. Kepler & Galileo
- D. Tycho & Kepler

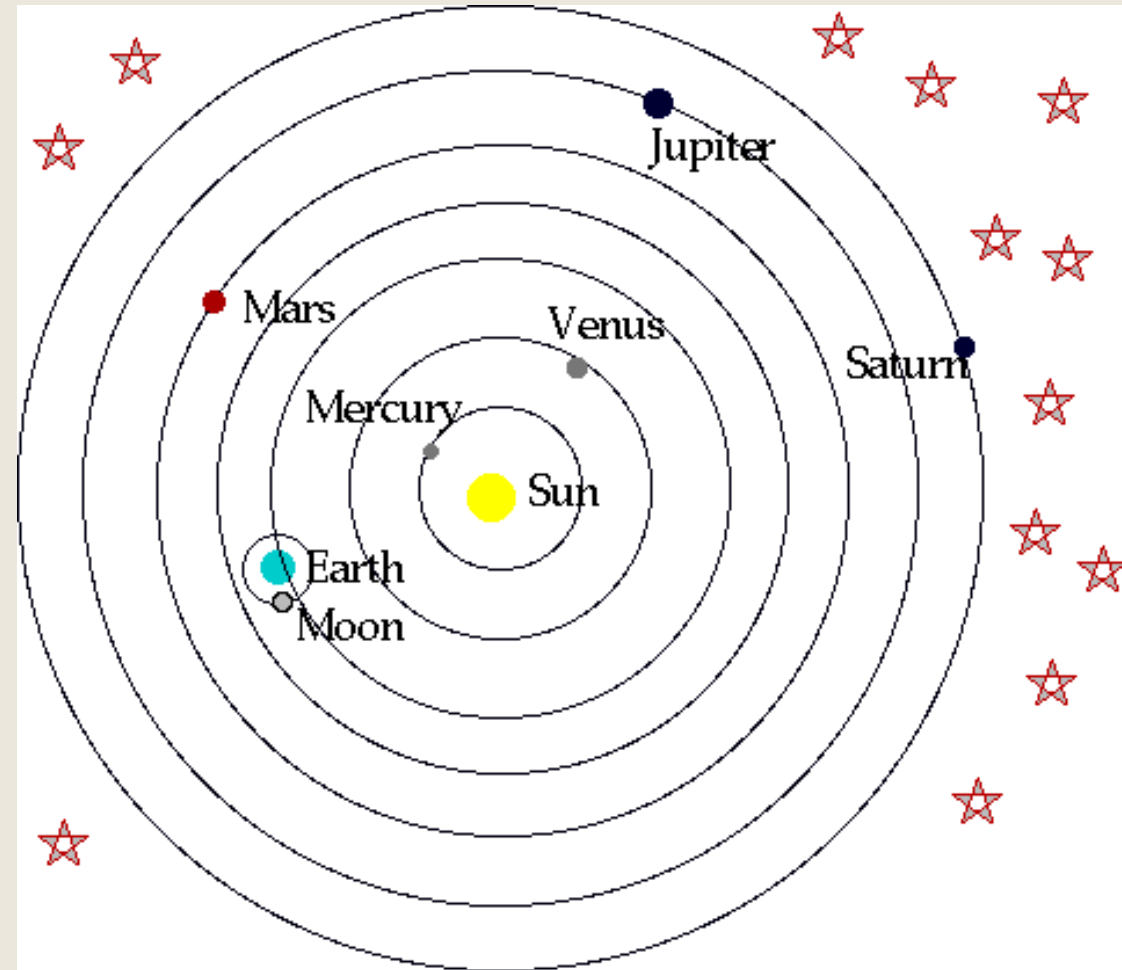


B. PTOLEMY & ARISTOTLE



Which scientist was given credit years after his death, for the **heliocentric model**, believing that **all the planets revolve around the sun** (another name for this model uses HIS name)?

- A. Copernicus
- B. Galileo
- C. Ptolemy
- D. Kepler



A. COPERNICUS



Which scientist used a telescope & found Jupiter's 4 largest moons & that Venus appears to have phases like our moon?

- A. Copernicus
- B. Aristotle
- C. Ptolemy
- D. Galileo



D. GALILEO





The ____ states that between 15-20 billion years ago the Universe began expanding out of an enormous explosion of matter.

- A. Big Bang Theory
- B. Big Crunch Theory
- C. Planet Movement Theory
- D. H-R Diagram

A. BIG BANG THEORY



A huge group of stars, star clusters, dust & gas held together by gravity is ____.

- A. A solar system
- B. A nebula
- C. A galaxy
- D. A constellation

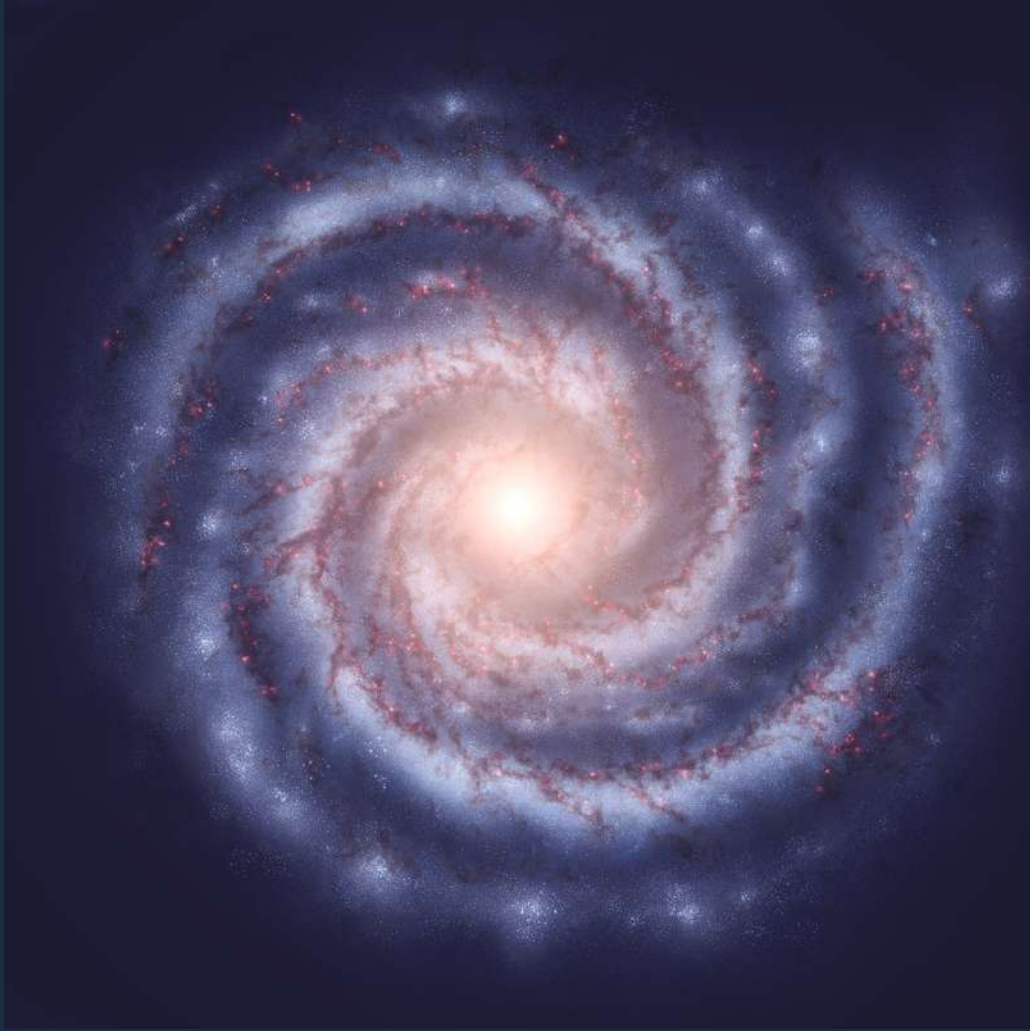


C. A GALAXY



The **shape** of our **Milky Way** galaxy is described as ____.

- A. an oval
- B. a spiral
- C. a disk



B. A SPIRAL



The shape of our galaxy *cannot* be seen from Earth because ____.

- A. We are located within one of its arms
- B. We are too high to see the shape
- C. Our view is blocked by the Sun
- D. Light pollution keeps us from being able to see it

Milky Way Galaxy



A. WE ARE
LOCATED
WITHIN
ONE OF ITS
ARMS

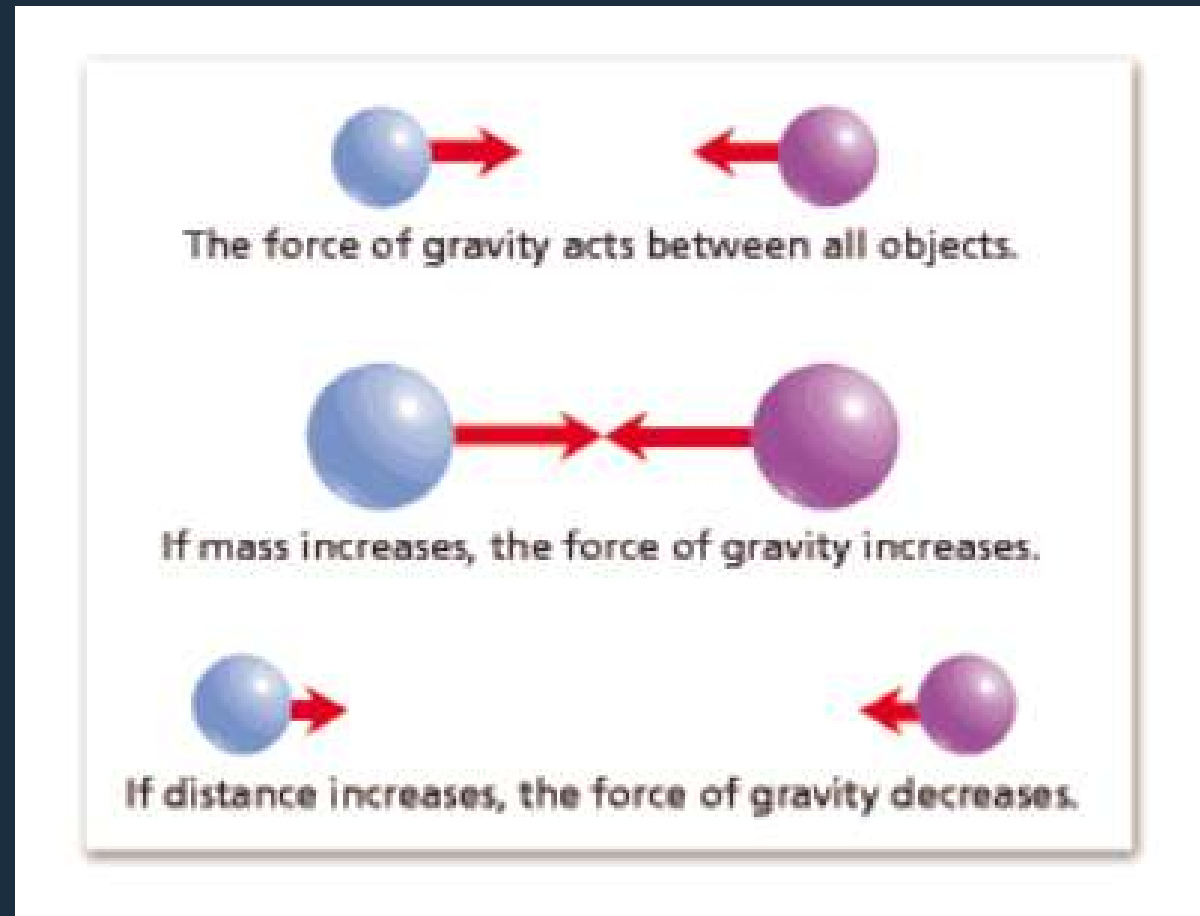
What 2 **factors** determine the **amount of gravity**?

A. The size of the object & the distance between objects

B. The shape of the object & how it formed

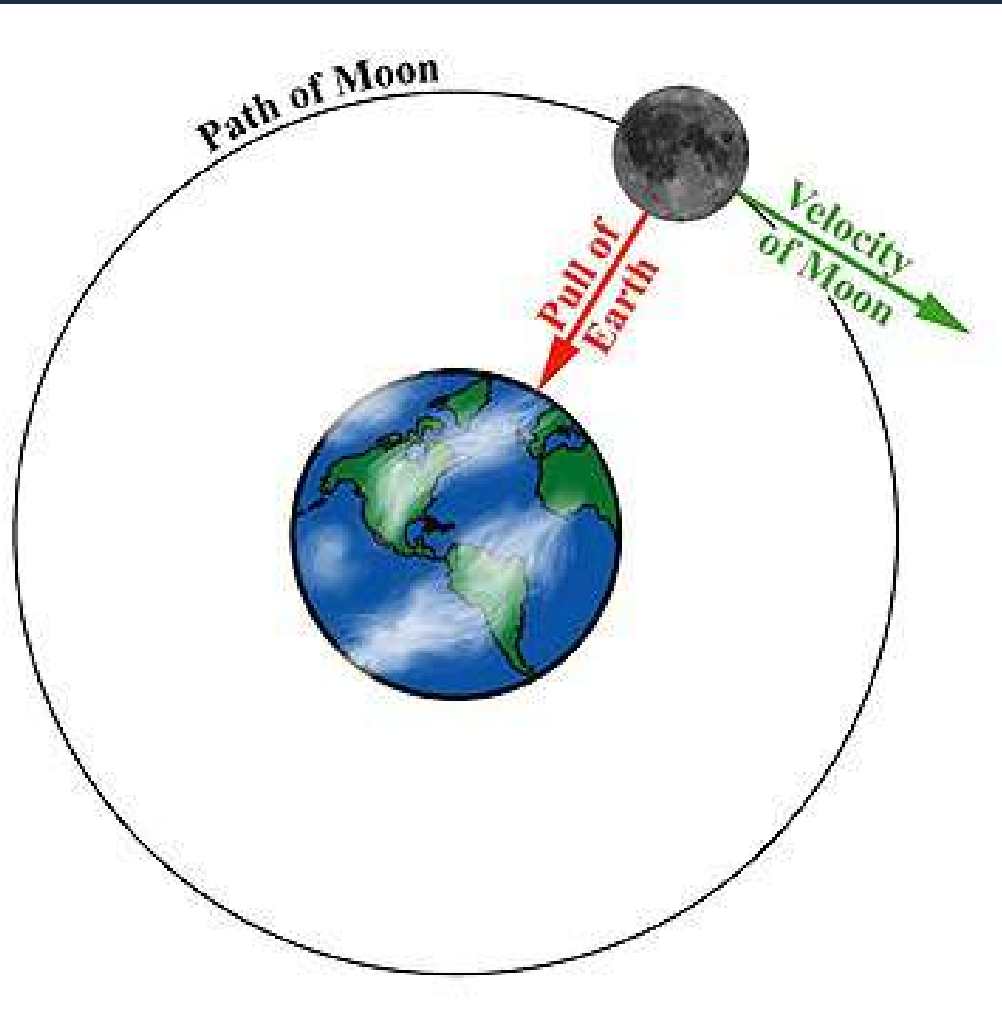
C. The distance between objects & the atmospheres

A. THE SIZE OF THE OBJECT & THE DISTANCE BETWEEN OBJECTS



_____ attracts objects towards each other like Earth and the Sun, while _____ is a force that acts to push a planet away from the sun, **staying on a straight path out in to space.**

- A. Orbits, Velocity
- B. Gravity, Inertia
- C. Power, Strength



B. GRAVITY, INERTIA

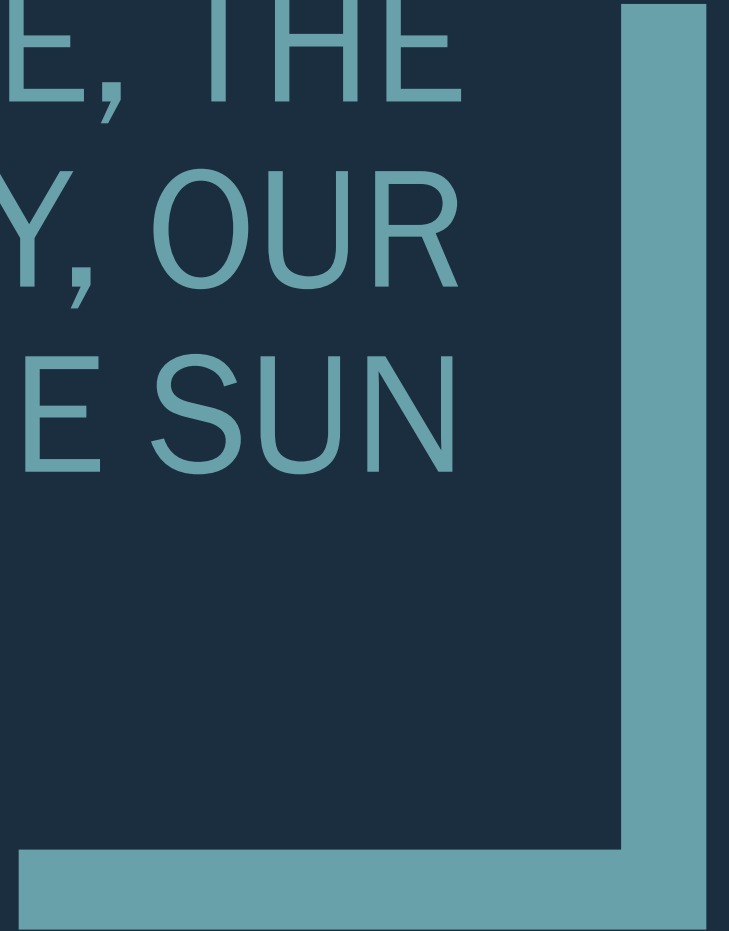
Which of the following shows the correct order from LARGEST to **SMALLEST**?

A. The Sun, The Milky Way Galaxy, Our Solar System, The Universe

B. The Universe, The Milky Way Galaxy, Our Solar System, The Sun

C. Our Solar System, The Sun, The Milky Way Galaxy, The Universe

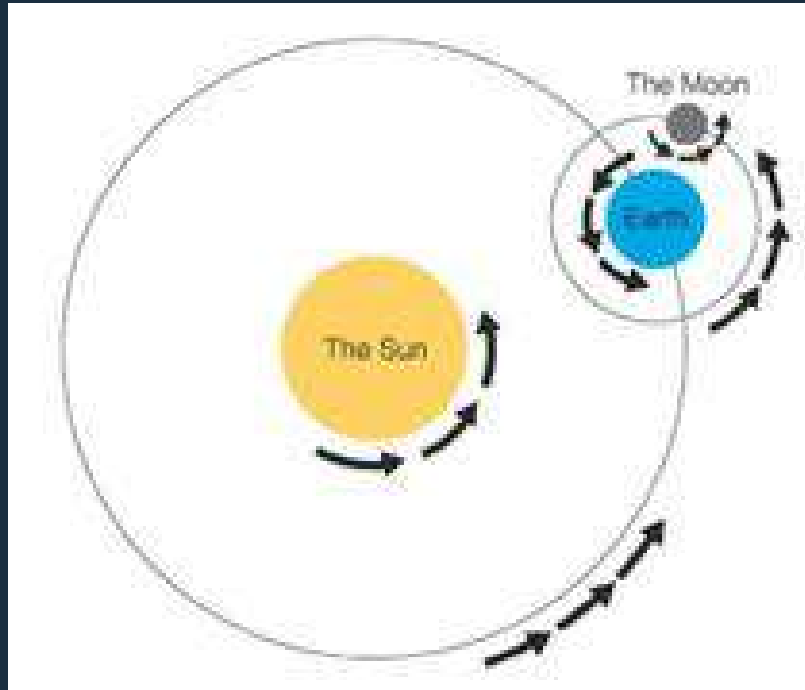
B. THE UNIVERSE, THE
MILKY WAY GALAXY, OUR
SOLAR SYSTEM, THE SUN



Which is Rotation & Which is Revolution?

When the Earth completely spins once on its axis in 24 hours = ____.

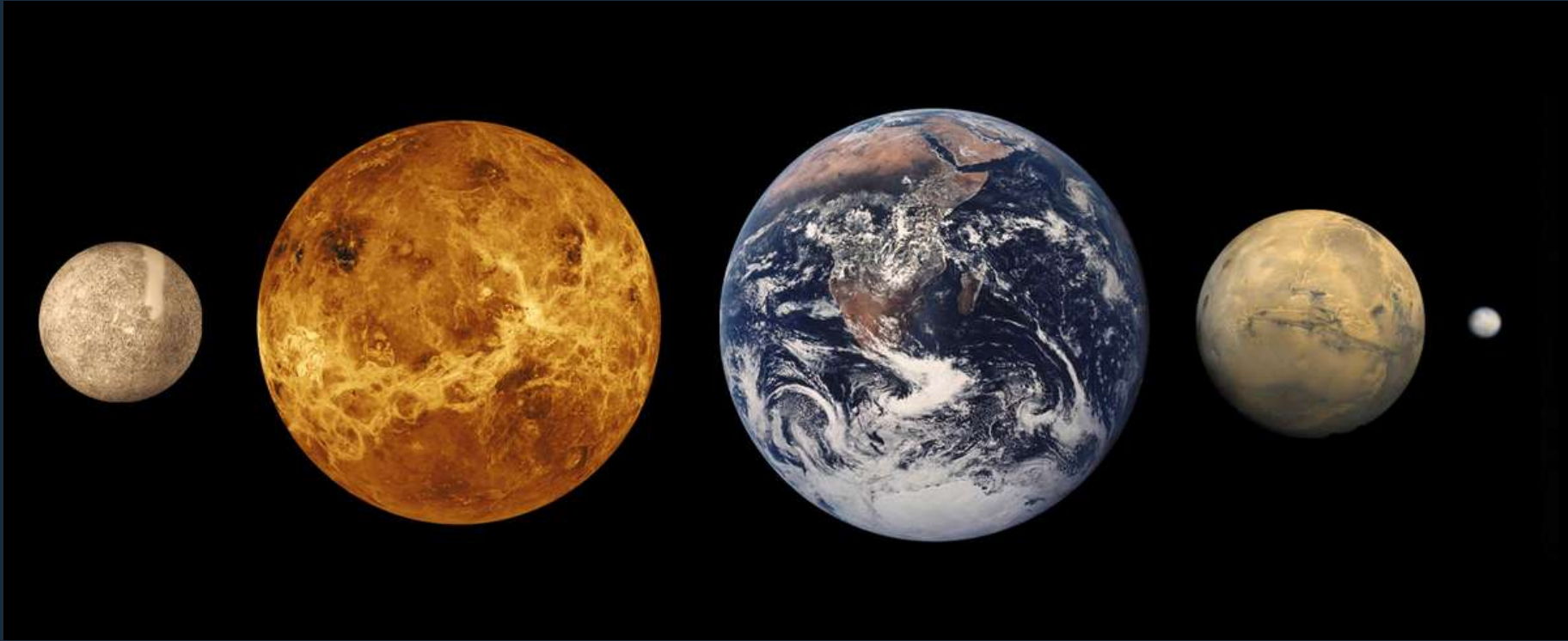
When a planet moves around the Sun one full orbit in a year = ____.



24 HOURS (A DAY)=
ROTATION

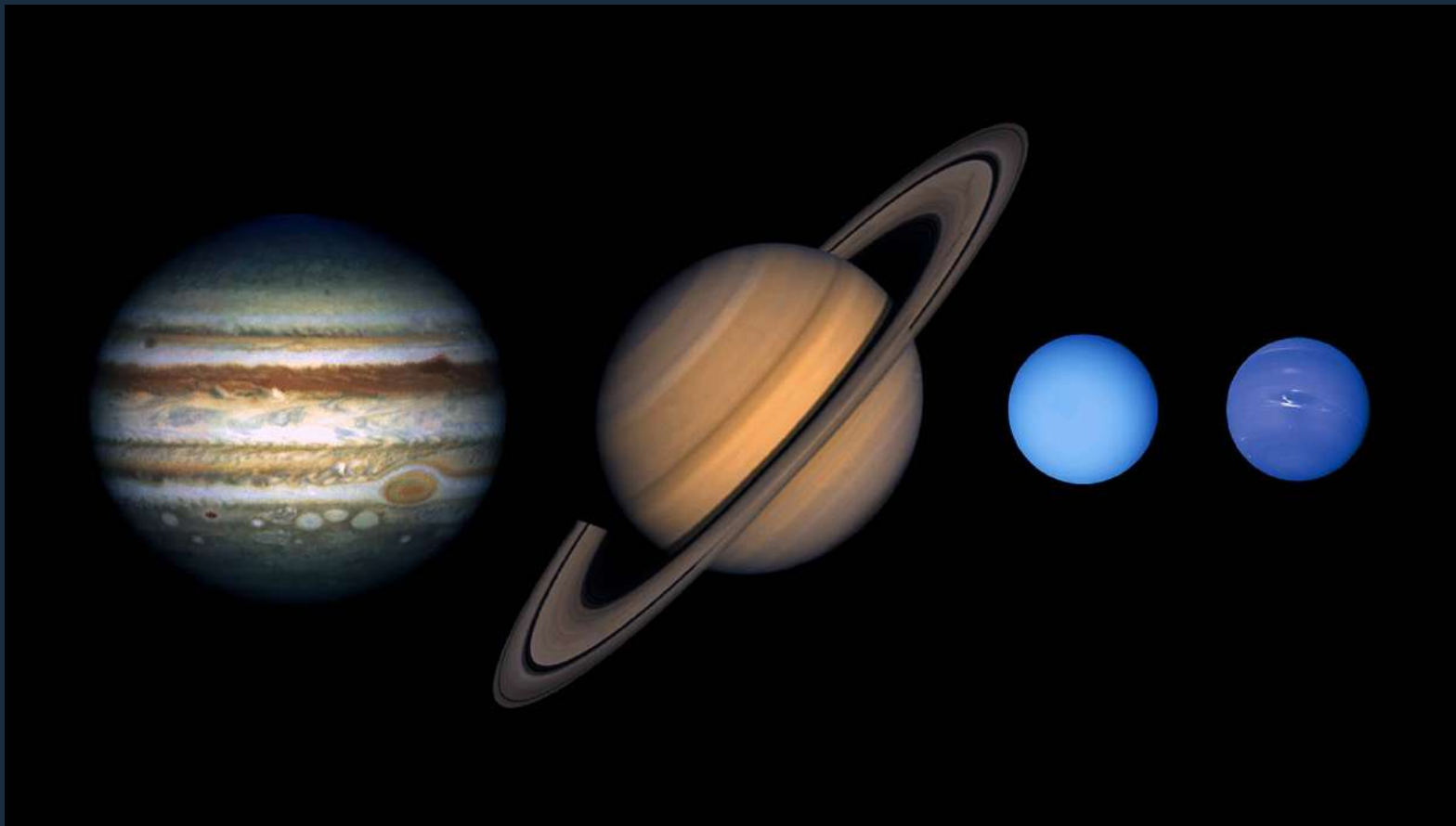
365 DAYS (A YEAR)=
REVOLUTION

List the INNER
PLANETS in the
correct order from
the Sun



Mercury Venus Earth Mars

List the OUTER PLANETS
in the correct order from
the Sun



Jupiter

Saturn

Uranus

Neptune

Venus **cannot support life** because ____.


A. Its temperatures are too cold

B. It has no atmosphere

C. It has a thick, toxic atmosphere with extremely hot temps

D. Its soil is full of oxidized iron

C. IT HAS A
THICK, TOXIC
ATMOSPHERE
WITH EXTREMELY
HOT TEMPS



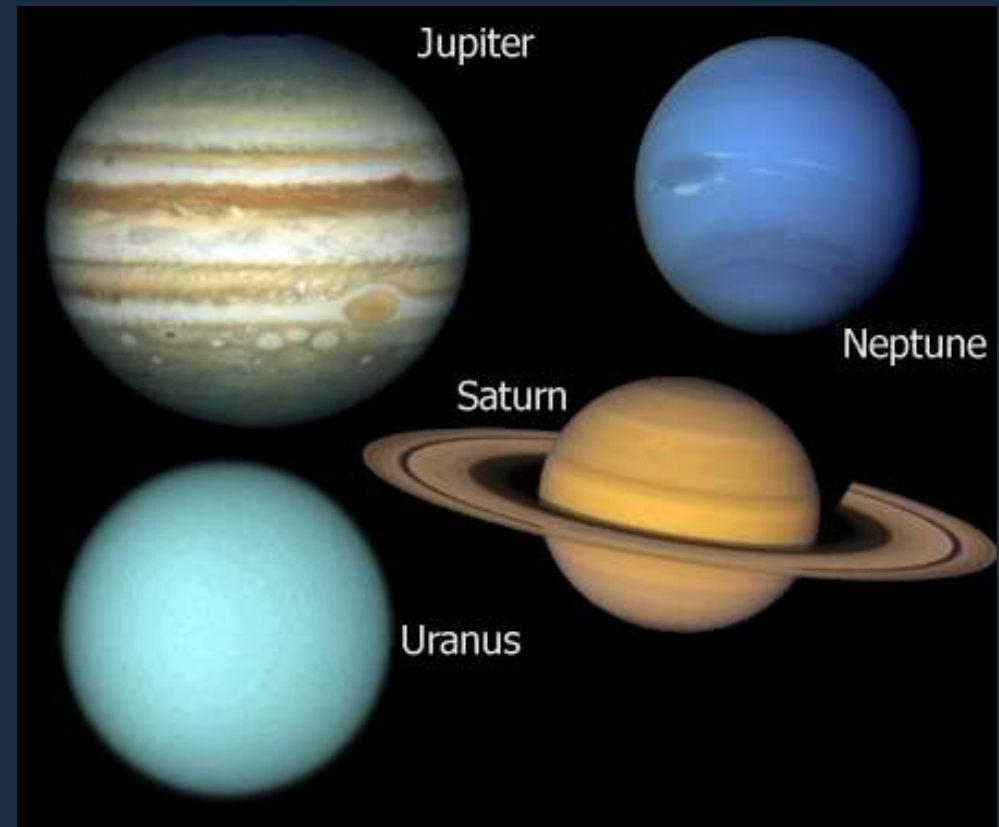
Common characteristics of the outer planets include ____.

A. Small, cold, no moons, rings

B. Close together, short years, gassy, no rings

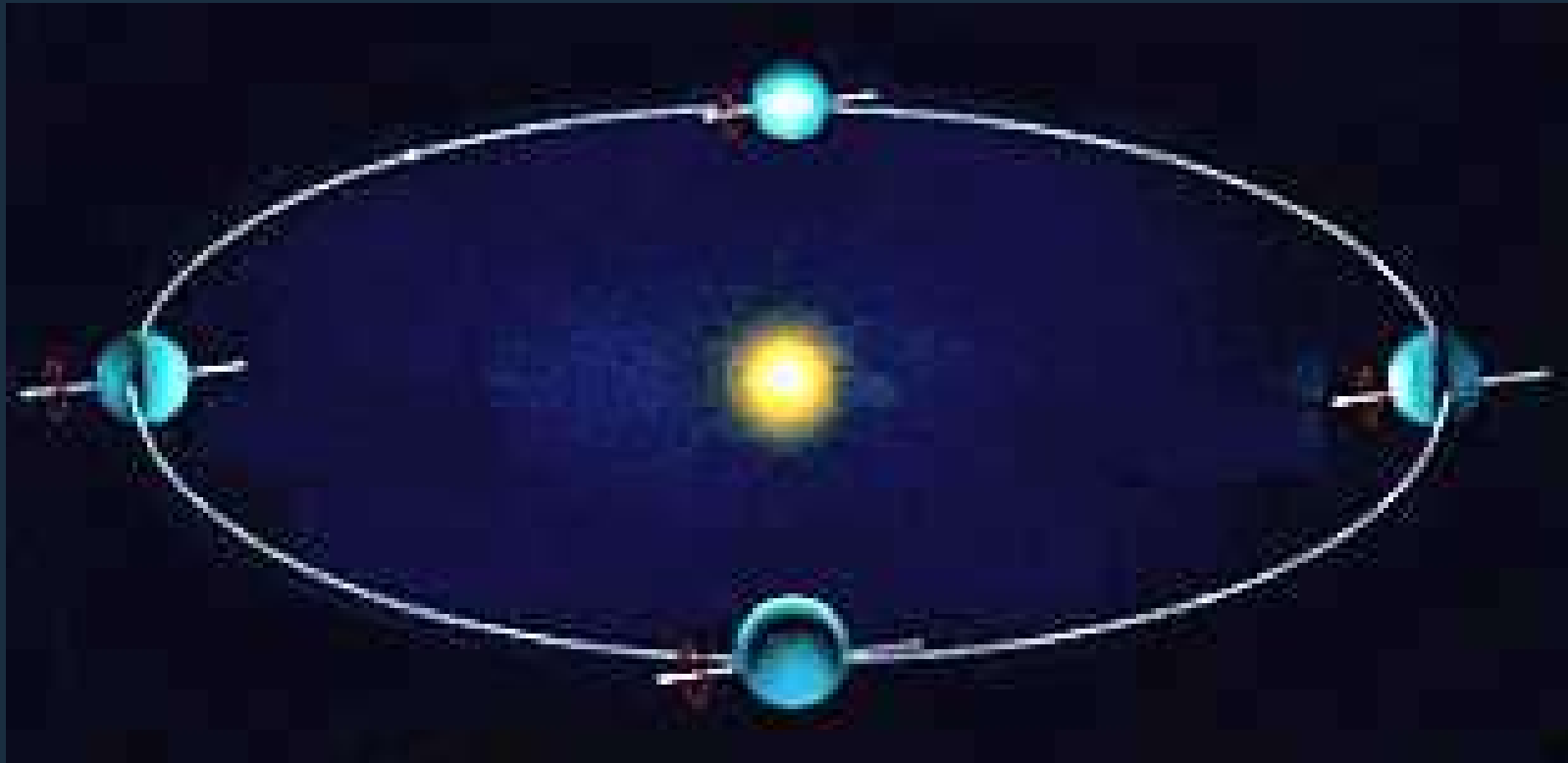
C. Rings, gassy, many moons, fast days

C. RINGS,
GASSY, MANY
MOONS,
FAST DAYS



Which planet **rotates completely on its side**, like a wheel rolling around the Sun?

- A. Venus
- B. Saturn
- C. Jupiter
- D. Uranus



D. URANUS

Which planet has almost no atmosphere, its surface looks most like our Moon, and it has the fastest revolution around the Sun?

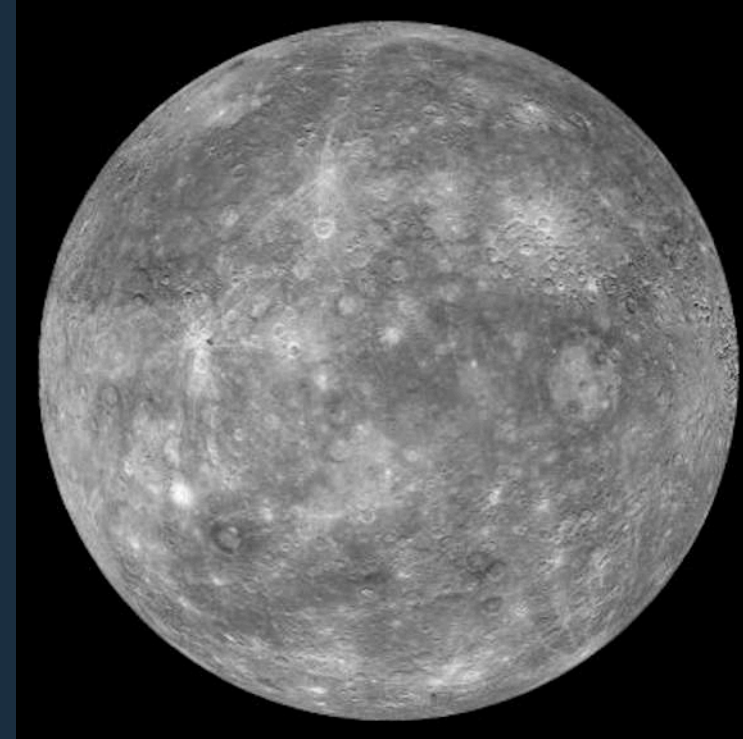
A. Mercury

B. Mars

C. Venus



(OUR MOON)



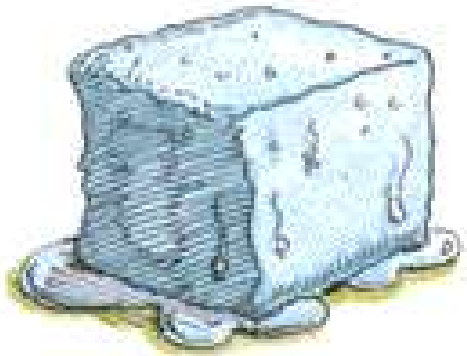
A. MERCURY

Which planet is the only one where there is **liquid water, frozen water & water vapor?**

A. Venus

B. Mars

C. Earth



SOLID



LIQUID

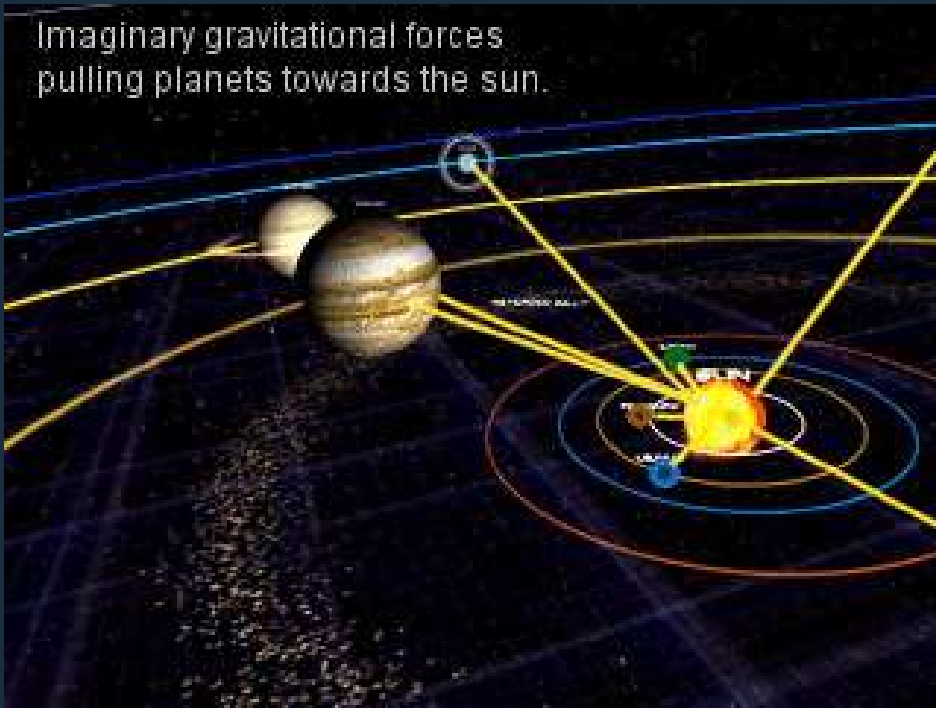


GAS

C. EARTH

If **inertia did not exist**, what would happen to the planets?

- A. They would continue to revolve around the Sun
- B. They would crash into the Sun
- C. They would float off into space



B. THEY WOULD CRASH INTO THE SUN

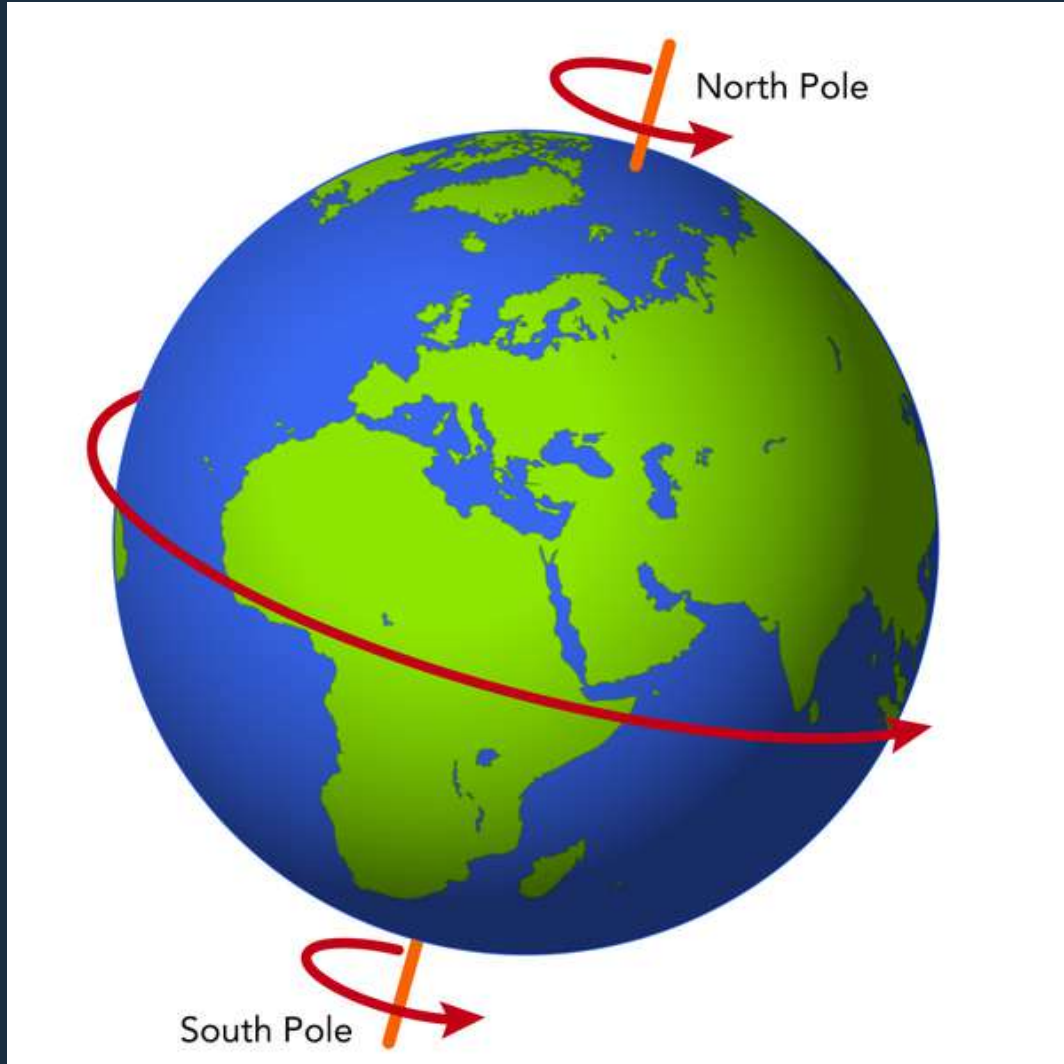
Gravitational pulls from
the sun would pull the
planets

____ is the imaginary line that goes through the center of Earth, with the poles at each end. (Rotating on *this* creates day & night.)

A. Axis

B. Ellipse

C. Equator



A. AXIS

_____ are the different forms that the moon takes each night in its appearance, as seen from Earth.

A. Ellipses

B. Equinoxes

C. Moon Phases

C. MOON PHASES



Name the phase of the moon.



- A. 1st Quarter
- B. 3rd Quarter
- C. Waxing Gibbous
- D. Waxing Crescent



A. 1ST QUARTER



Name the phase of the moon.



- A. 1st Quarter
- B. 3rd Quarter
- C. Waxing Crescent
- D. Waning Crescent



D. WANING
CRESCENT



Name the phase of the moon.



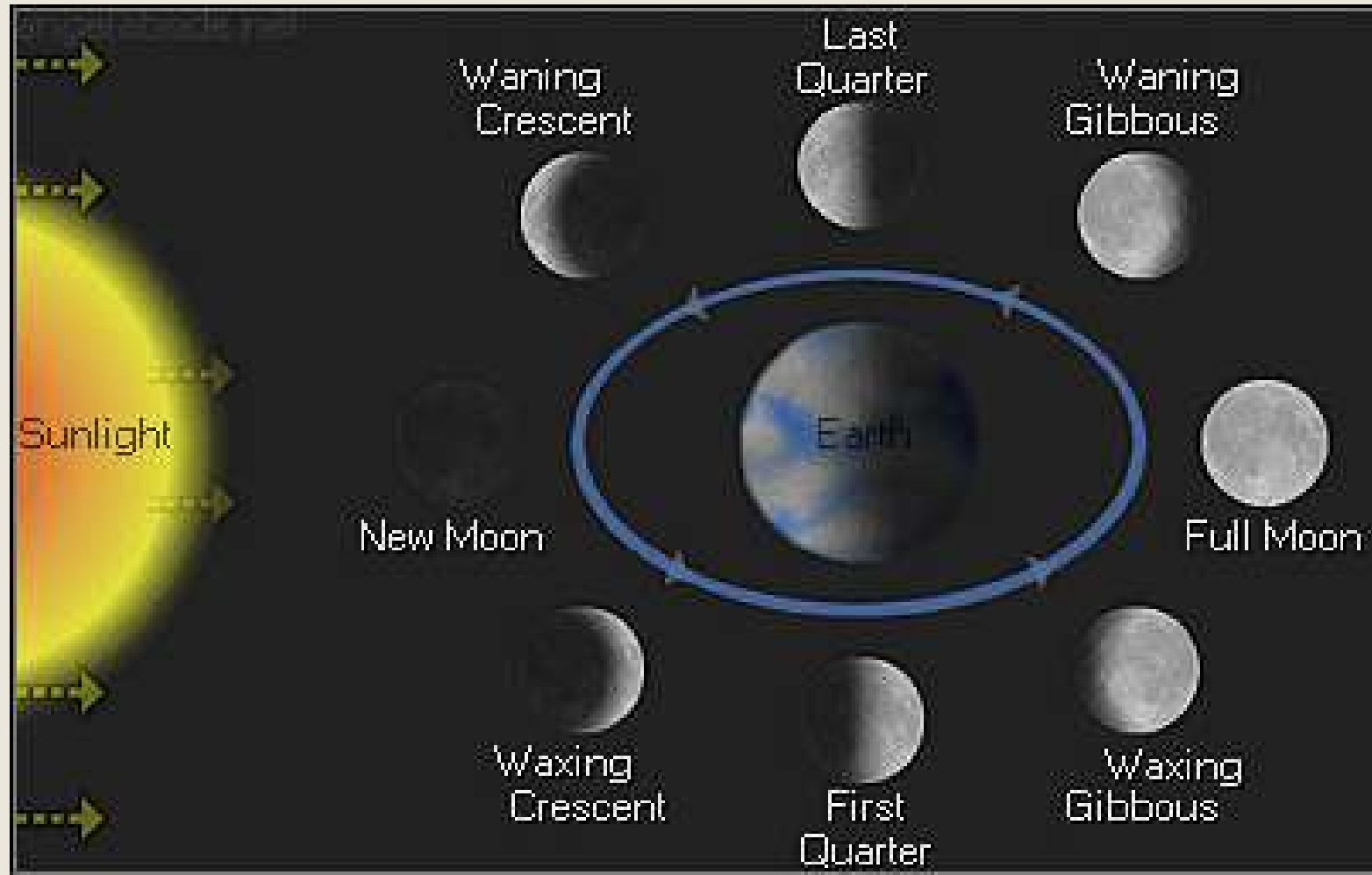
- A. Full Moon
- B. New Moon
- C. Waxing Gibbous
- D. Waning Gibbous



D. WANING
GIBBOUS



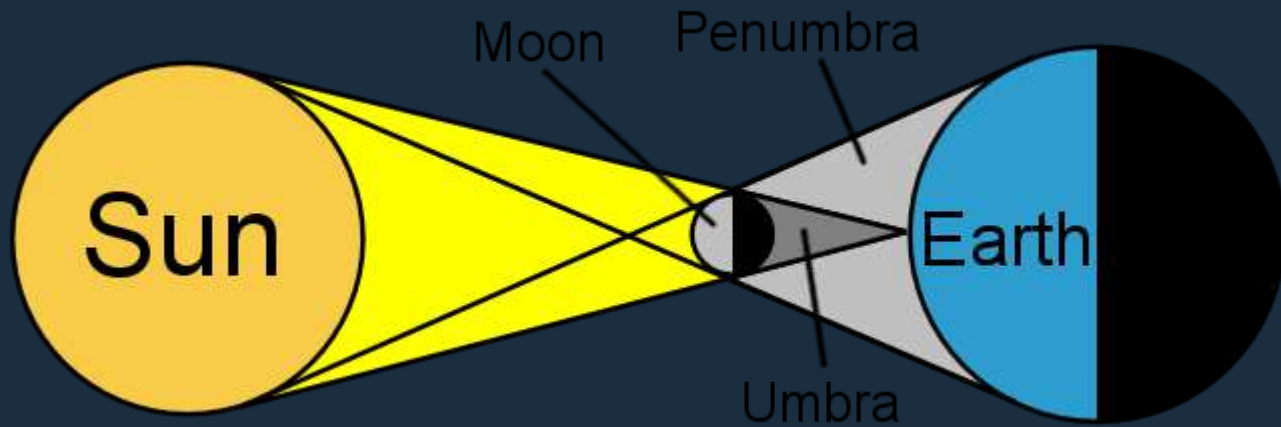
Phases of the Moon



When the moon moves directly between the Sun & the Earth, casting a shadow over part of Earth & blocking sunlight, we call this ____.

- A. A lunar eclipse
- B. The solstice
- C. A solar eclipse
- D. The equinox

C. A SOLAR ECLIPSE



When all of the Moon's surface facing Earth reflects light from the sun, it is called ____.

- A. The New Moon
- B. The Full Moon
- C. The Waxing Phases
- D. The Waning Phases

B. THE FULL MOON

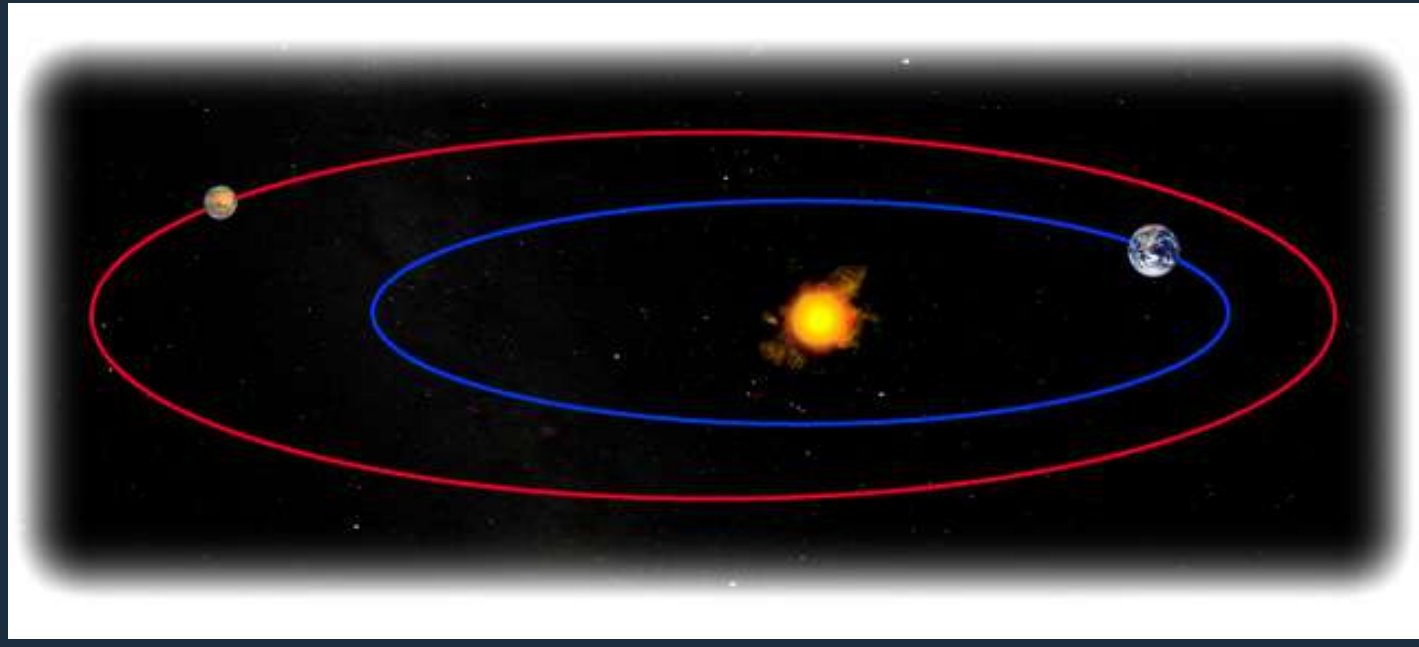


An elongated, closed curve path (smashed circle) that most space objects take on their orbit around our Sun is called ____.

- A. An orion
- B. An ellipse
- C. Waxing
- D. Waning

B. AN ELLIPSE

Elliptical Orbit →



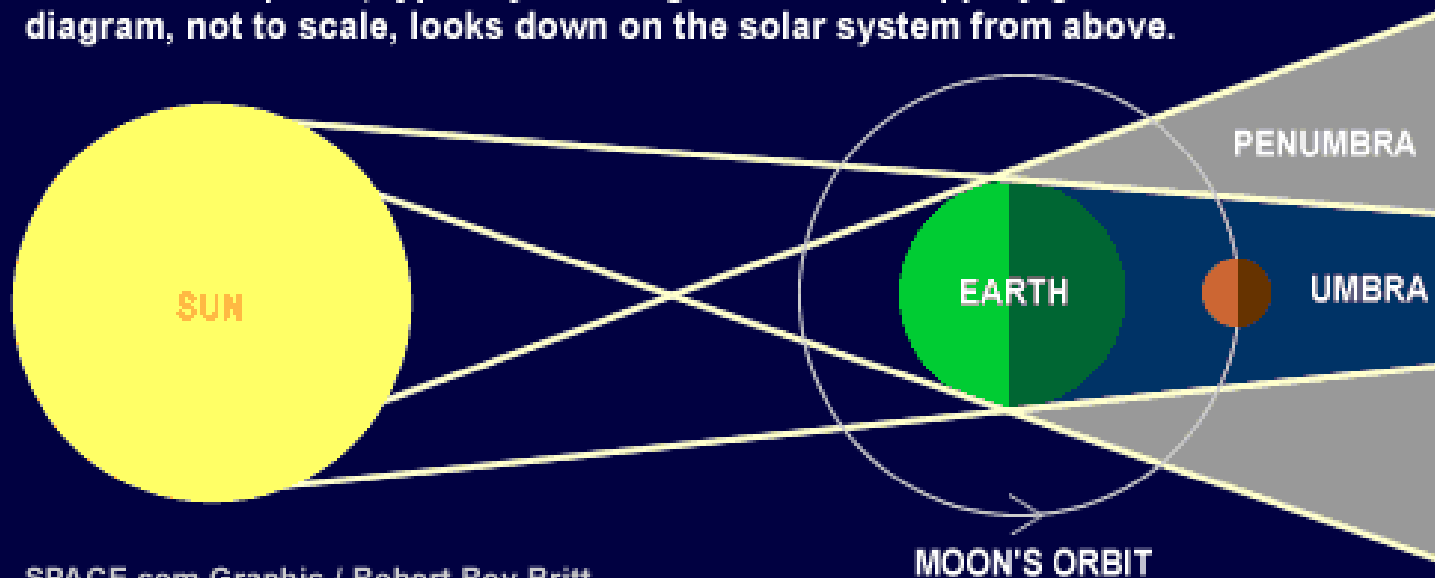
During which moon phase does a lunar eclipse occur?

- A. 1st Quarter
- B. Full Moon
- C. New Moon
- D. 3rd Quarter



Anatomy of a Lunar Eclipse

A total lunar eclipse can only occur at Full Moon, when Earth blocks the sunlight normally reflected by the Moon. Some sunlight is bent through Earth's atmosphere, typically allowing the Moon a coppery glow. This diagram, not to scale, looks down on the solar system from above.

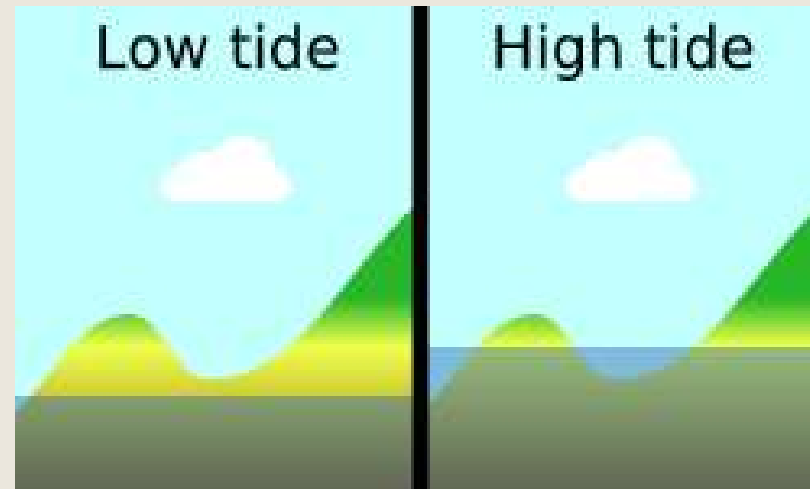


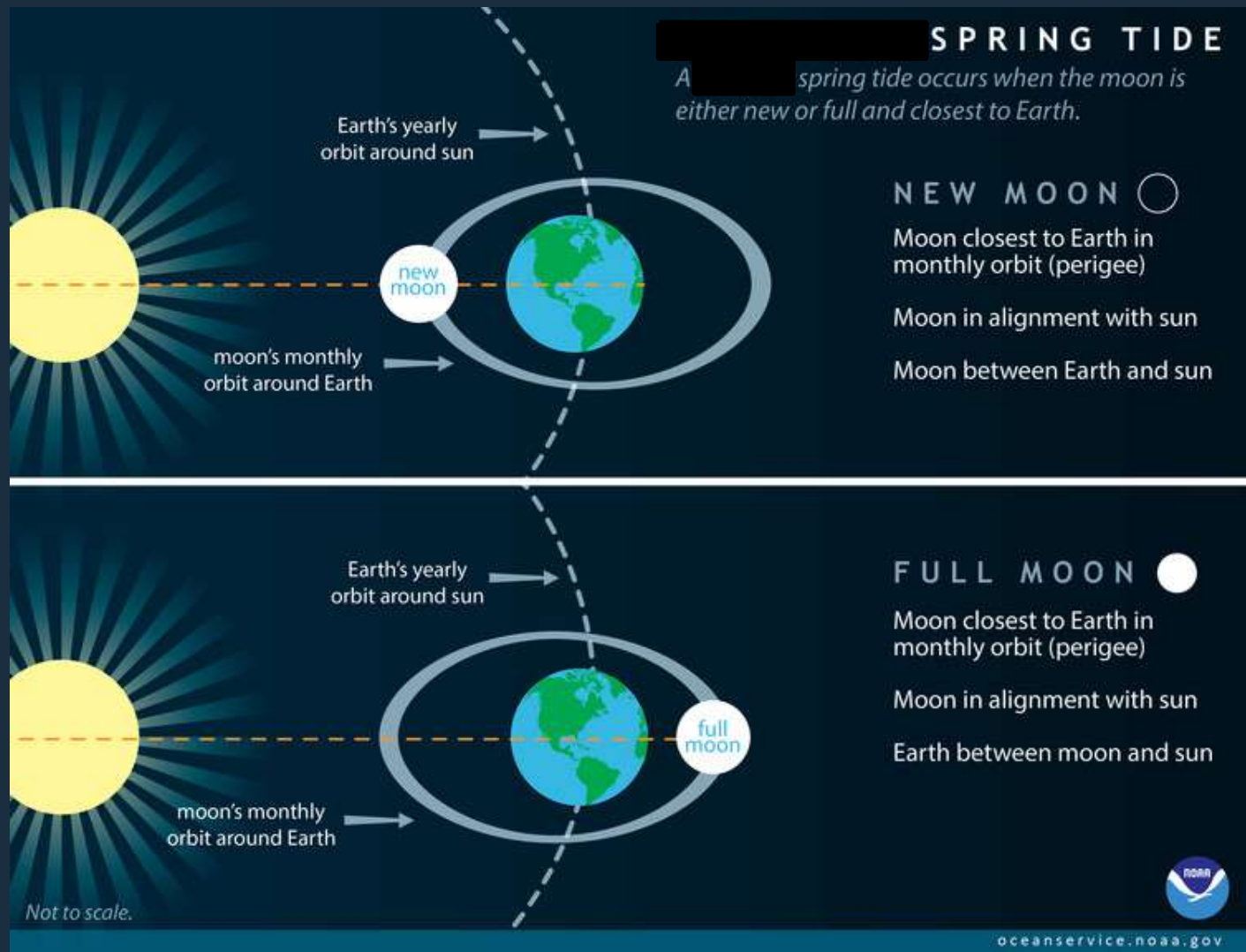
SPACE.com Graphic / Robert Roy Britt
SOURCES: Fred Espenak, NASA; The Moon Book

B. FULL MOON

When the difference between high & low tide is the greatest, we have ____ tides occurring.

- A. Spring
- B. Neap



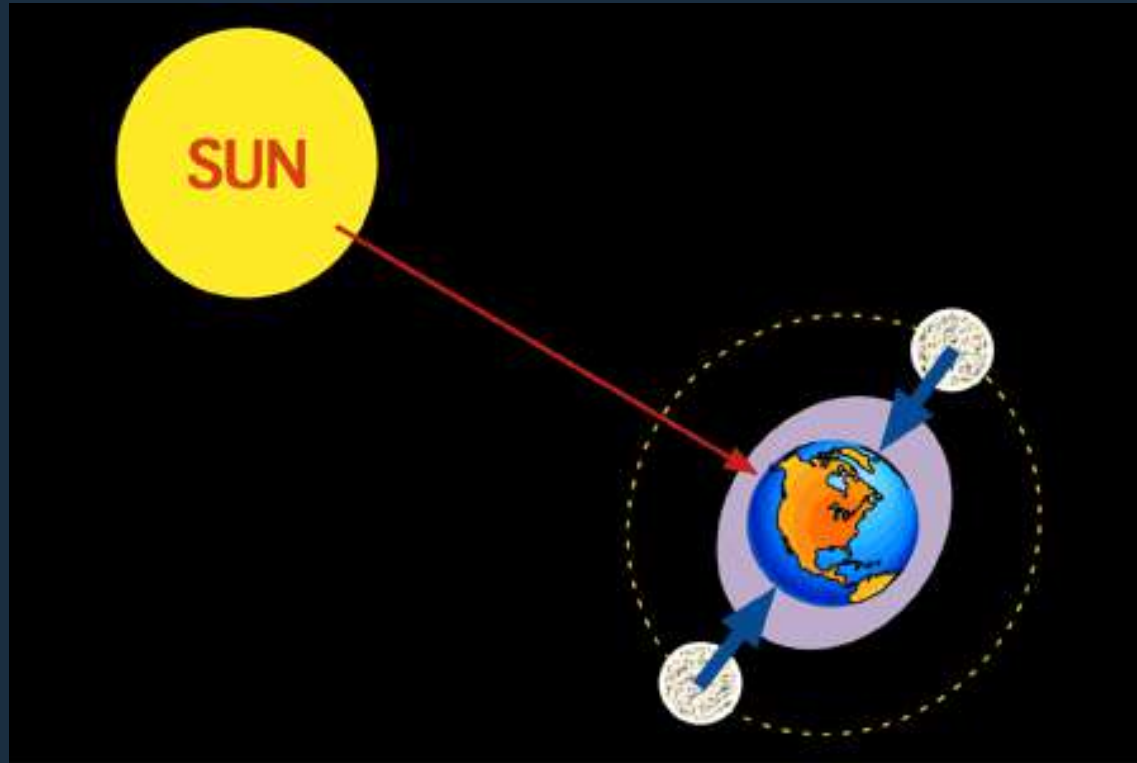


A.
SPRING

During which moon phases do we have Neap Tides?

- A. Full & New
- B. Waxing Crescent & Waning Crescent
- C. 1st Quarter & 3rd Quarter
- D. Waxing Gibbous & Waning Gibbous

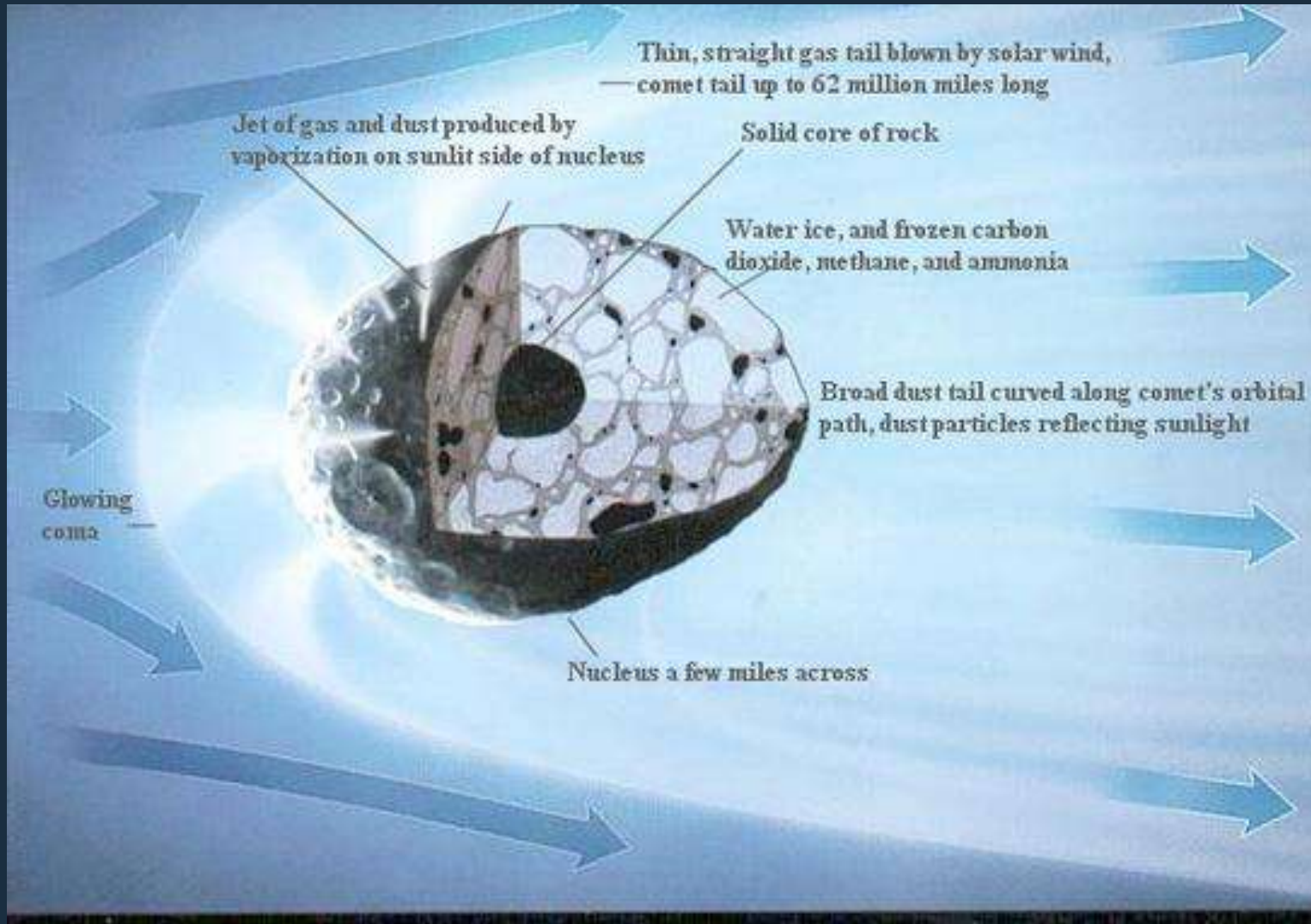
C. 1ST QUARTER & 3RD QUARTER



The solid, inner part of a comet is called its ____.

- A. Coma
- B. Nucleus
- C. Core
- D. Heart

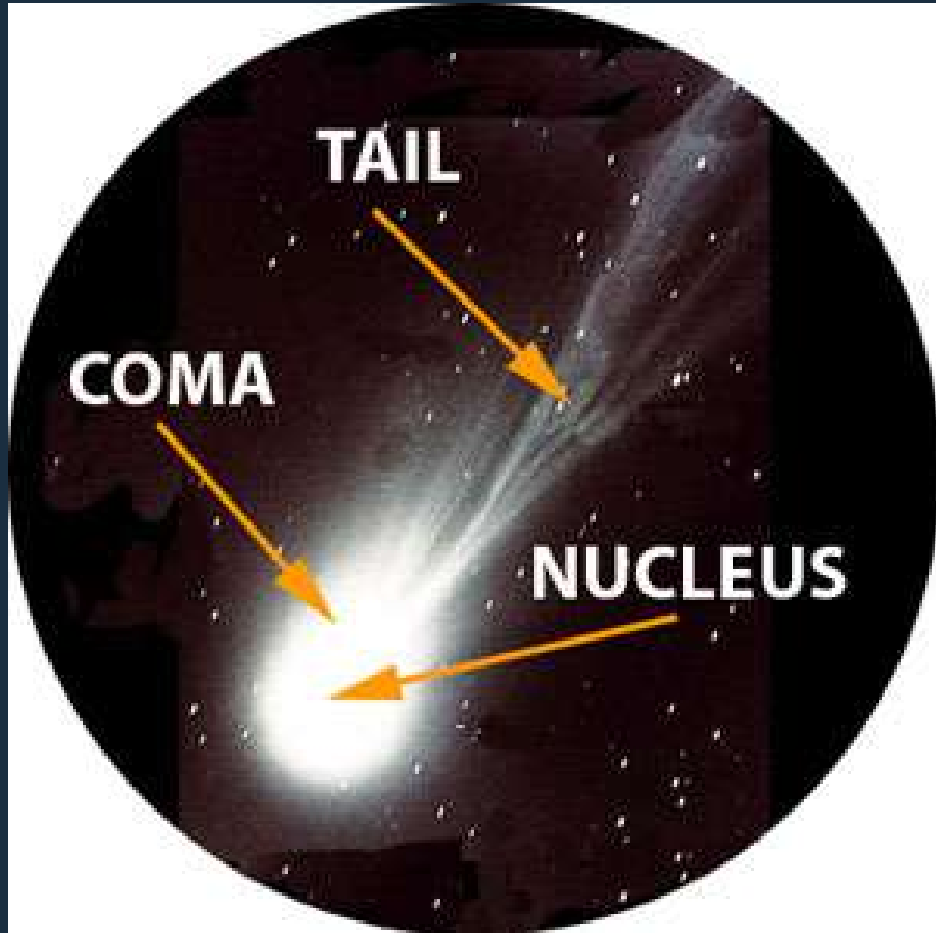




B. NUCLEUS

The cloud of gases around the solid part of a comet is known as the ____.

- A. Core
- B. Heart
- C. Coma



C. COMA

_____ is the flash of light that is created when small pieces of rock are pulled into Earth's atmosphere by gravity & heated by friction.

- A. Meteoroid
- B. Meteor
- C. Meteorite



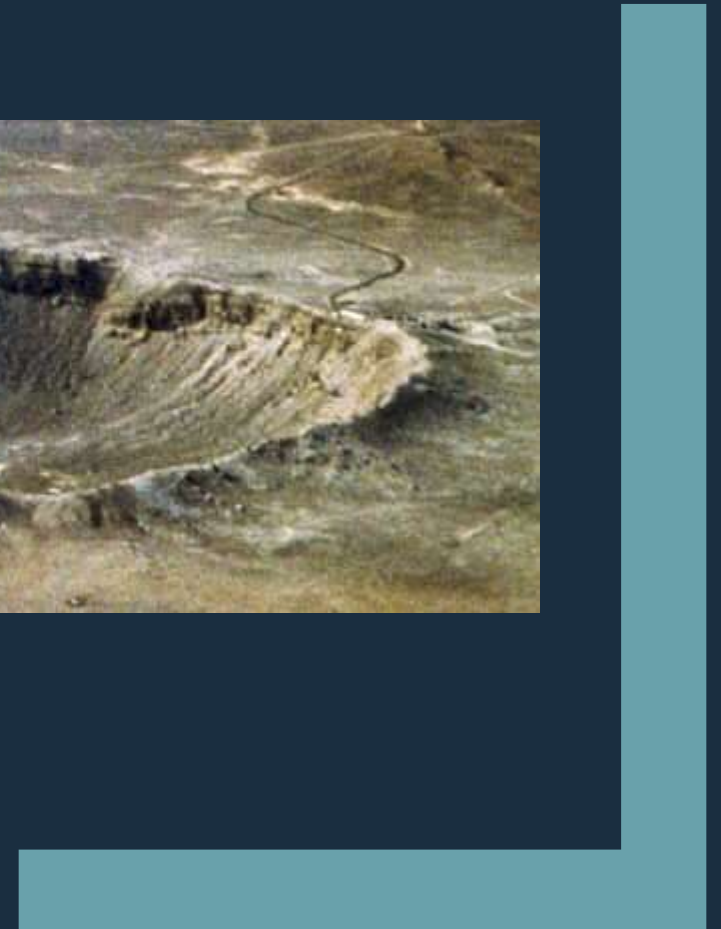
B. METEOR



Pieces of space rock that actually strike Earth's surface are called ____.

- A. Meteoroids
- B. Meteors
- C. Meteorites

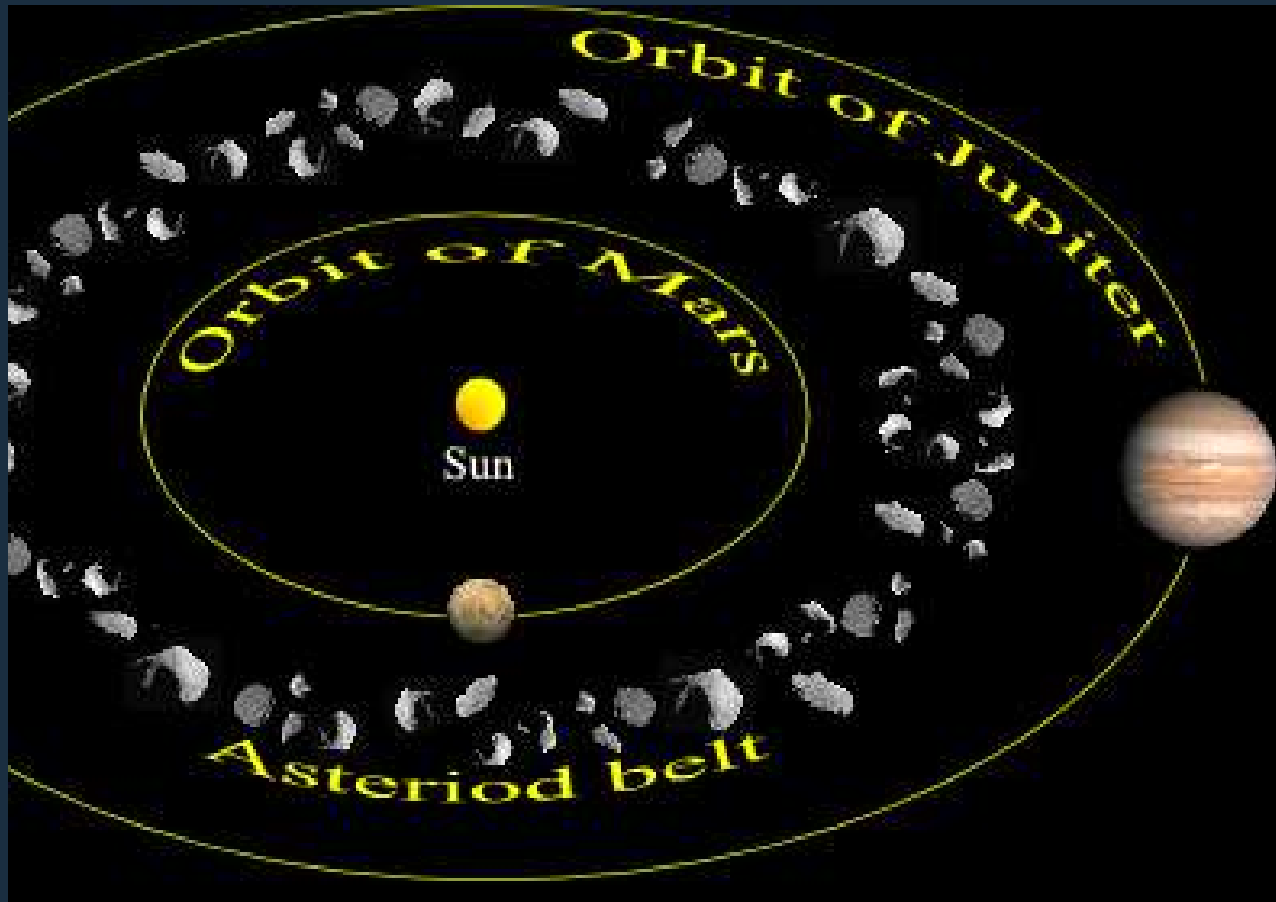
C. METEORITES



Most asteroids are located between the orbits of _____, in the “Asteroid Belt”.

- A. Mercury & Venus
- B. Earth & Mars
- C. Neptune & Pluto
- D. Mars & Jupiter

D. MARS & JUPITER

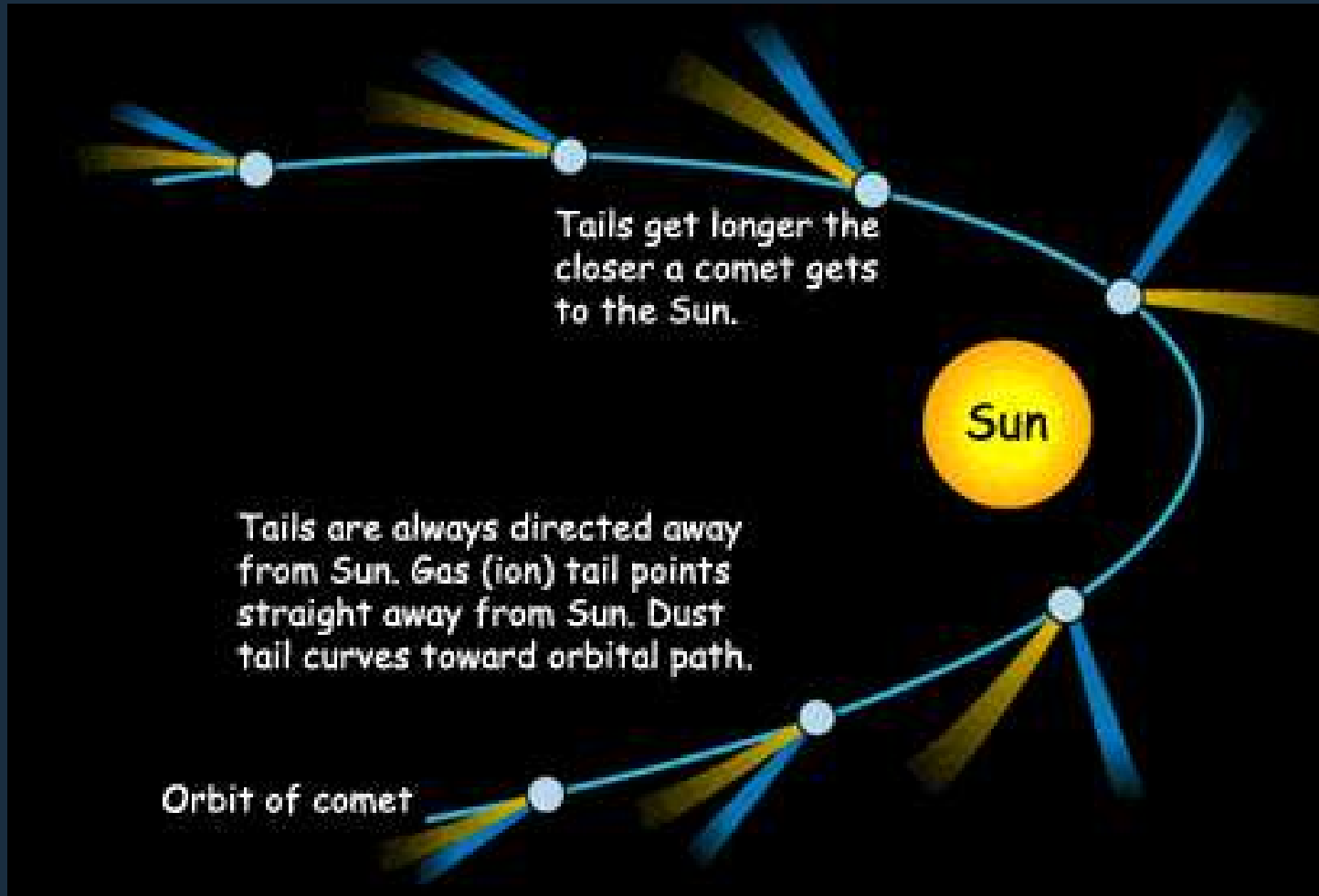


In what direction does the tail of a comet always point?

- A. Toward the Sun
- B. Away from the Sun
- C. Toward Earth



B. AWAY FROM THE SUN

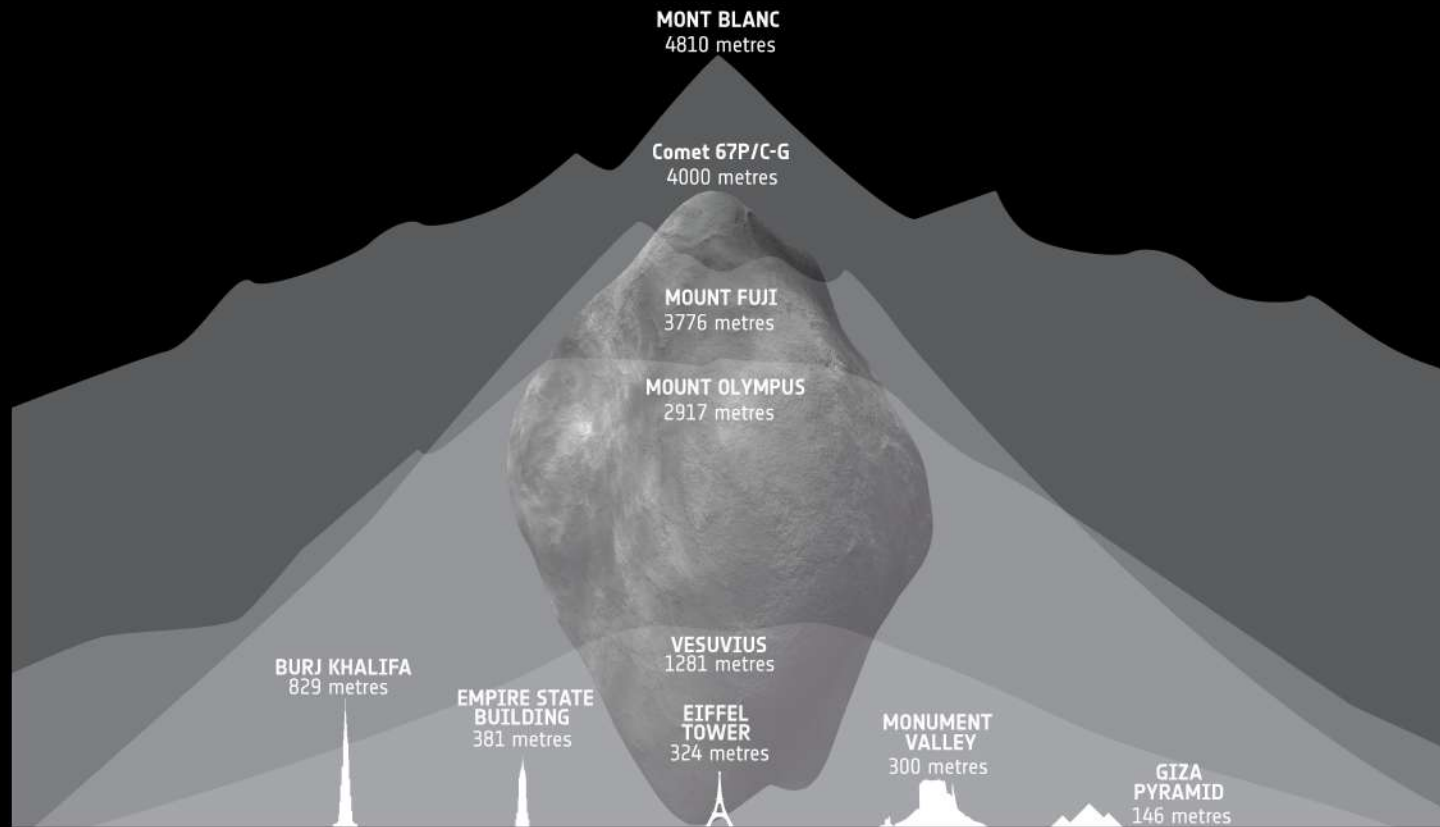


Which rocky space object can be the size of a mountain?



- A. Comet
- B. Asteroid
- C. Meteoroid

→ HOW BIG IS COMET 67P/CHURYUMOV-GERASIMENKO?



A.
COMET

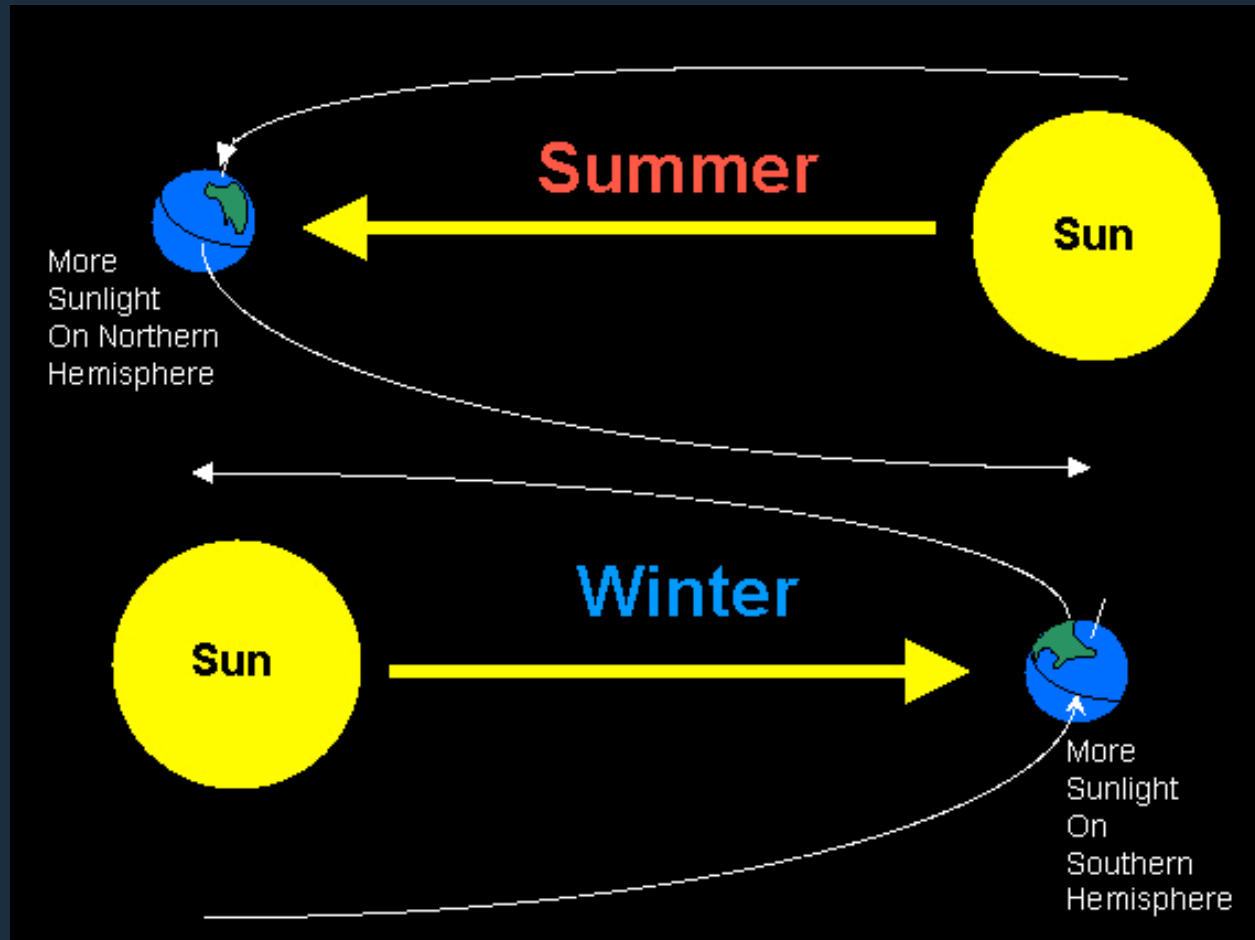
Earth has seasons because ____.

A. It rotates on its axis every day

B. It is an inner planet, close to the Sun

C. It is tilted on its axis as it revolves round the Sun

C. IT IS TILTED ON ITS AXIS AS IT REVOLVES AROUND THE SUN

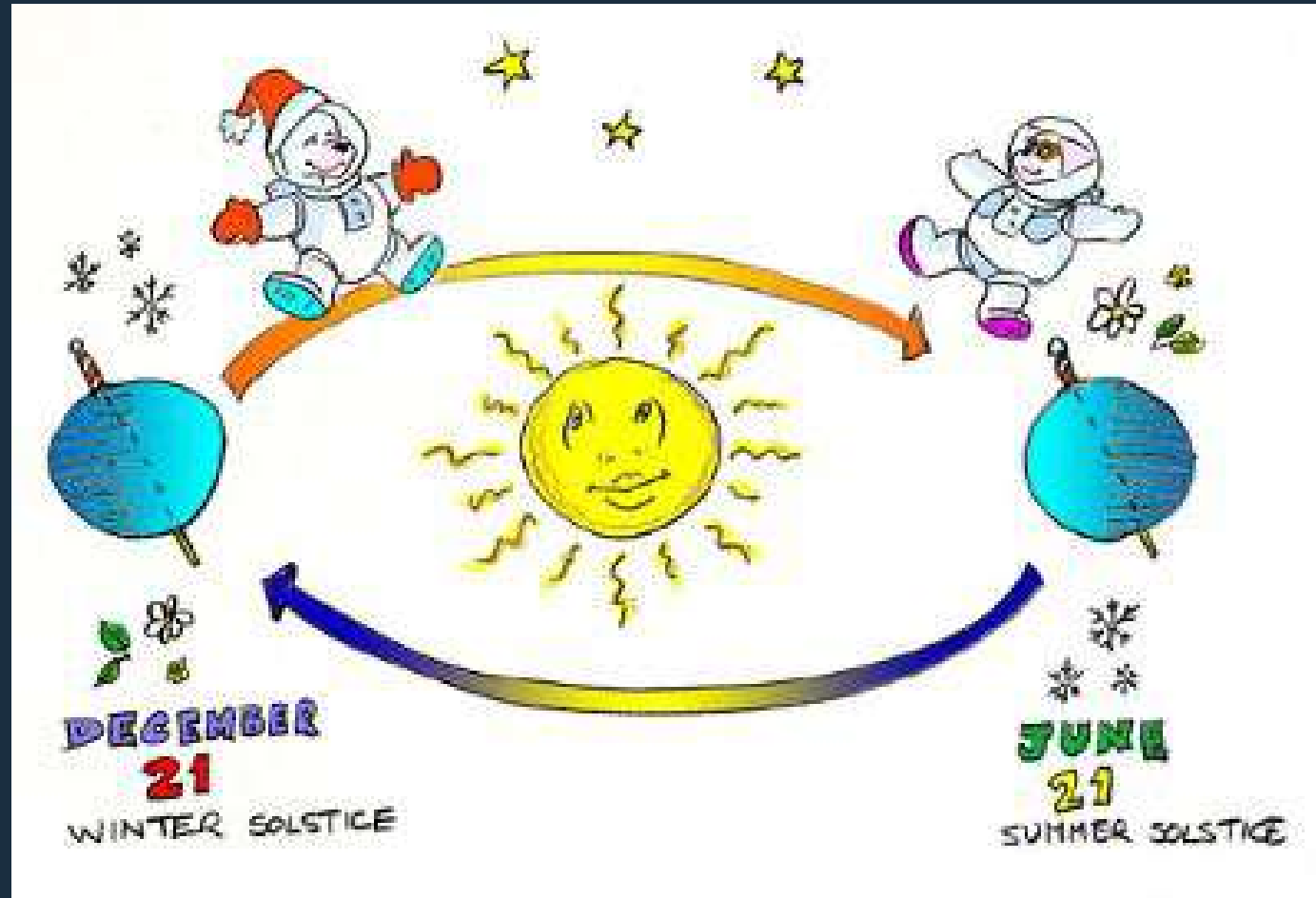


The Solstice (when the Sun reaches its greatest distance North or South of the equator) marks the first day of which 2 seasons?

A. Winter & Summer

B. Spring & Fall

A. WINTER & SUMMER



The Equinox (when the Sun is directly above the equator) marks the first day of which 2 seasons?

A. Winter & Summer

B. Spring & Fall

B. SPRING & FALL

