

Revision of Sun, Earth, Moon and Universe

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Choose the best answer:

Which is the closest object to earth?

- Jupiter C. Moon
Sun D. Pluto

Which is the largest planet in the solar system?

- The sun C. the earth
Saturn D. Jupiter

What is the planet more similar to the earth?

- The moon C. Venus
Mars D. Neptune

Which of the following statements about earth is true?

- It is only planet in the solar system that rotates on an axis.
It is only planet in the solar system with a moon
It is only planet in the solar system with an atmosphere
It is only planet in the solar system known to support life

What two gases mostly make up Saturn?

- Oxygen and Helium C. Oxygen and Nitrogen
Hydrogen and Helium D. Hydrogen and Nitrogen

The planets are terrestrial planets

- Middle C. Outer
Inner D. (A , B , C)

What is located closest to the center of the solar system?

- Venus C. Sun
Mars D. Jupiter

Which is the first outer planet in our solar system?

- Uranus C. Jupiter
Saturn D. Mars

When the people on earth cannot see a moon, which phase is the moon in?

- Full Moon C. waxing crescent
New Moon D. waxing gibbous

What are outer planets?

- Mercury , Venus , Earth , Mars
Mercury , Saturn , Uranus, Neptune

Jupiter, Venus , Mars, Saturn

Jupiter, Saturn, Uranus, Neptune

A half moon is also referred to as a

New moon

C. full moon

First quarter

D. waxing crescent

Earth's axial tilt affects

Month's days

C. years

Seasons

D. moon's phases

The phase of the moon in which the entire lit half is facing away from earth is

Full moon

C. new moon

First quarter

D. third quarter

The Sun is composed mainly of

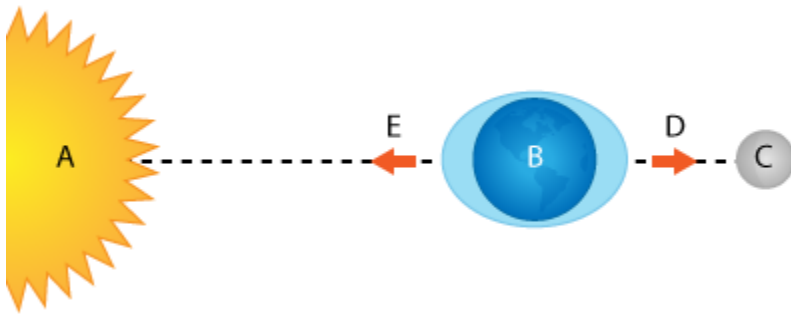
Methane

Argon

Oxygen

Hydrogen

In this diagram, what phase of the Moon (C) would be seen from earth (B)?



Full moon

C. new moon

First quarter

D. third quarter

The orbits of the planets are

Circular

C. straight line

Elliptical

D. spherical

Which planet is the hottest?

Venus

C. Mars

Mercury

D. Uranus

Which of the following is not a planet?

Earth

C. Uranus

Mars

D. Pluto

What is the name for the area in between Mars and Jupiter?

The Kuiper Belt

C. The Asteroid Belt

Nebula

D. Ceres

When can a solar eclipse occur?

Anytime

C. during a new moon

During a full moon

D. during a quarter moon

Which planet contains oceans and frozen ice caps?

A. Jupiter

B. Mars

C. Earth

D. Neptune

The moon is visible to us because the moon

Reflects light from sun

C. reflects light from earth

Produces light through fusion

D. produces light through combustion

What is the name of a object that survived Earth's atmosphere and landed on Earth?

Meteoroid

Meteor

Meteorite

Comet

The planets are small, dense, and have rocky surfaces

Comet

C. outer

Moon

D. inner

This is caused because different areas of the moon's surface are lighted by the sun

The craters on the moon

C. the moon's phases

Our seasons

D. solar flares

A lunar eclipse takes place during which phase of the moon?

Full moon

C. quarter Moon

Waxing gibbous moon

D. new moon

What planet has rusted iron in its dusty, rocky surface?

Venus

C. Mars

Jupiter

D. Saturn

Which is earth's natural satellite?

The moon

C. the international space station

Any meteoroid

D. the sun

What force keeps the moon in orbit?

Axis

C. solstice

Gravity

D. magnetic

I revolve around the sun about every 88 days. Which planet am I?

Mars

C. Mercury

Venus

D. Uranus

What causes Earth to have day and night?

- A. revolution B. axis C. rotation D. gravity

What keeps the planets in orbit around the sun?

- The sun's heat
The sun's rotation
Axis's tilt
The sun's gravitational pull

which moon phase follows the full moon?

- A. new moon C. last quarter
B. first quarter D. waning gibbous

Which planet is the furthest from the sun?

- A. Saturn C. Neptune
B. Mars D. Uranus

Which planet is closest to the sun?

- C. Saturn C. Neptune
D. mercury D. Uranus

The path that earth follow is called

- A. orbit C. eclipse
B. solstice D. rotation

The picture shows the daylight side of earth. Which best describes why earth has day and night

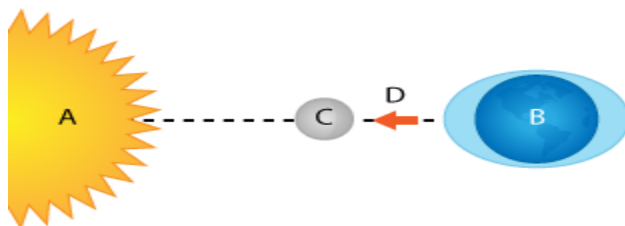


- A. the moon rotates on an axis C. earth rotates on an axis
B. the moon revolves around earth D. earth revolves around the sun

What is the order of the sun, moon, and earth during a lunar eclipse?

- A. Sun – Moon – Earth C. Earth – Sun – Moon
B. Sun – Earth – Moon D. Moon – Sun – Earth

What does the diagram below show?



- A. Spring tide C. winter solstice

B. Neap tide

D. summer solstice

Large pieces of space rock with irregular shapes are called

A. Asteroids

C. comets

B. Meteors

D. dwarf planets

During a solar eclipse, a dark circle seems to cover the sun. what is the dark circle?

A. The moon's shadow

C. the moon

B. The sun's shadow

D. Earth 's shadow

Earth has one large moon, which orbits earth once every days, a period known as a lunar month.

A. 28

C. 29.5

B. 365

D. 365.25

The fewest hours of daylight occur on the

A. Fall equinox

C. Spring equinox

B. Winter solstice

D. summer solstice

Which is true about earth?

A. It has water

C. it is habitable

B. It is our home planet

D. All of the them

How many known planets are in our solar system?

A. 9

B. 10

C. 7

D. 8

Which statement about earth's rotation and its revolution is correct?

A. It takes earth longer to rotate on its axis than revolve around the sun

B. It takes earth longer revolve around the sun than to rotate on its axis

C. It takes earth longer rotate around the sun than to revolve on its axis

D. It takes earth longer revolve around the sun than to revolve on its axis

Pluto was reclassified to a planet

A. Dwarf

B. inner

C. outer

D. giant

The moon goes through all of its phases about every

- A. 10 days B. 15 days C. 28 days D. 31 days

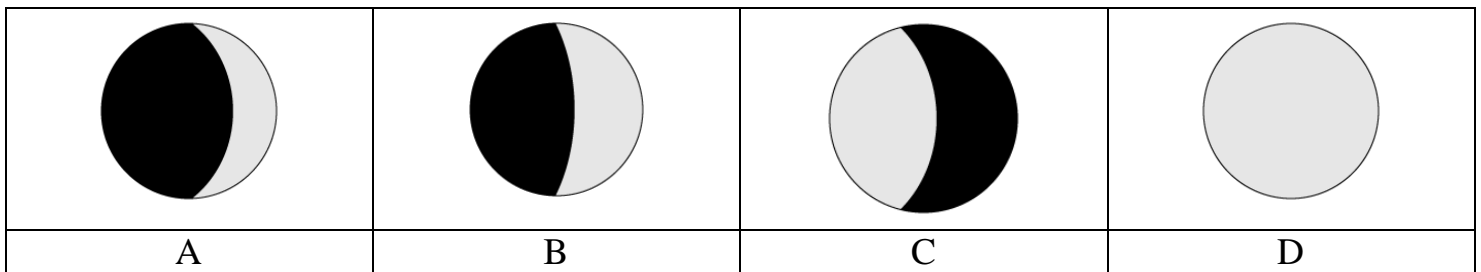
What is the length of time it takes for earth to rotate on its axis called?

- A. Season B. month C. year D. day

The fact that earth's axis is tilted 23.5 degrees is responsible for

- A. The change between day and night C. the change of the seasons
B. Solar eclipse D. lunar eclipse

Said observes a new moon on June 1. He then observes the moon again on June 15 and draws a picture of it. Which of the following best shows what's Said drawing of the moon looks like for June 15?



Earth rotates from when viewed from the north pole

- A. East to West C. North to South
B. West to East D. South to North

Earth rotates so that the Sun, Moon and stars appear to travel from Each day

- A. East to West C. North to South
B. West to East D. South to North

The table shows the distances of our solar system's planets from the Sun. distances are given in (AU), where 1AU = the average distance from earth to the sun.

Planet distances from the Sun								
planet	mercury	Venus	earth	mars	Saturn	Jupiter	Neptune	Uranus
AU	0.39	0.72	1.00	1.52	5.20	9.58	19.20	30.05

Ceres is a dwarf planet in our solar system. It is 2.77 AU from the sun. based on the data in the table where is Ceres located?

- A. Between the sun and Mercury C. between Neptune and Uranus
B. Between Mars and Jupiter D. beyond the orbit of Uranus

The Northern Hemisphere is tilting toward the sun, therefore receiving more direct light than when it is tilted away from the sun. what would people in the northern hemisphere be experiencing?

- A. Winter solstice
- B. Vernal equinox
- C. Summer Solstice
- D. Fall Equinox

Most asteroids don't have enough gravity to affect their

- A. Shapes
- B. Orbits
- C. Atmospheres
- D. surfaces

Does the statement describe a solar eclipse or a lunar eclipse?

(can only happen during a full moon)

- A. Solar eclipse
- B. Lunar eclipse

Bodies made up of ice, dust, and small particles that orbit the sun are called

- A. Asteroids
- B. Meteors
- C. Comets
- D. meteorites

What is a galaxy ?

- A. Large group of stars held together by gravity
- B. System of planets and its moons
- C. A system of planets orbiting a star
- D. A group of comets

Which statement is true about a light year?

- A. It is a measure of time.
- B. It is a measure of distance
- C. It takes one light year for earth to orbit the sun
- D. It is commonly used to measure distance in the solar system

Which put the following in order from biggest to smallest?

- A. Galaxy, Universe, Solar system, Star, planet
- B. Universe, Solar system, Galaxy, planet, Star
- C. Solar System, Universe, Galaxy, Star, Planet
- D. Universe, Galaxy, Solar System, Star, Planet

What is the Milky Way?

- A. The red star
- B. The way the planets orbit the Sun
- C. The galaxy of which the solar system is a part of
- D. White star

The Milky Way is an example of a(n)

- A. Solar system
- B. Exploding galaxy
- C. Spiral galaxy
- D. irregular galaxy

What is the current theory on how the universe was created?

- A. Solstice winter
- B. Big Bang
- C. steady state theory
- D. little Bang

Which statement correctly describes the theory of the Big Bang?

- A. The universe is in an unchanging steady state.
- B. The universe is composed of only energy and no matter.
- C. All matter and energy once exploded out of a single point.
- D. Little explosions happen all over the universe creating matter and energy.

Which one of the following is not type of galaxy?

- A. Elliptical
- B. Spiral
- C. Irregular
- D. triangle

The Big Bang theory explains

- A. How the universe formed
- B. Why stars are found in galaxies
- C. The shape of Earth's orbit
- D. Why planets stay in their orbits

Approximately how fast does light travel?

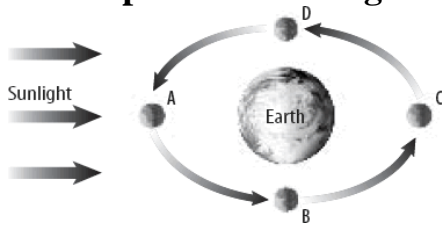
- A. 300000 km per second
- B. 3000 feet per second
- C. 100 km an hour
- D. 100 AU

The distance light can travel in one year, or almost 9.46 trillion km.

- A. Astronomical unit
- B. Mile per second
- C. light year
- D. kilometer

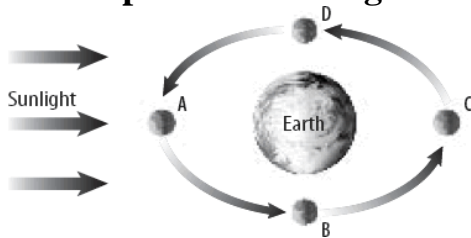
Choose the best answer (group 2)

- 1. Which planet from these is currently furthest from the Sun?**
A. Mercury
B. Pluto
C. Earth
D. Uranus
- 2. Which describes any fragment from space that lands on Earth's surface?**
A. Comets
B. Meteorites
C. asteroids
D. satellites
- 3. Which point in the diagram below could produce a solar eclipse?**



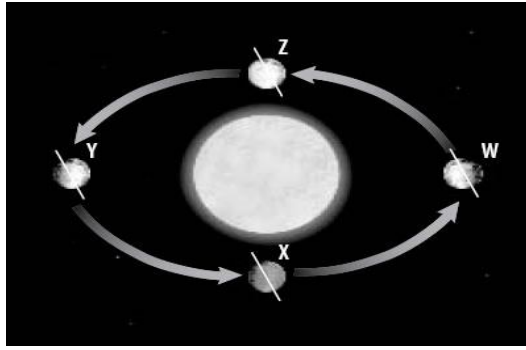
- A. B B. A C. C D. D

- 4. What is one effect of the Moon's gravity on the surface of Earth?**
A. Phases
B. Revolution
C. eclipses
D. tides
- 5. Which point in the diagram below shows the position of a lunar eclipse?**



- A. C B. D C. A D. B

- 6. What is an astronomical unit?**
A. a way to measure light-years
B. the average distance from Earth to the Sun
C. the length of the solar system
D. the diameter of the Sun
- 7. What is the tilt of Earth's axis?**
A. 25°
B. 15°
C. 23.5°
D. 27.5°
- 8. Assuming that the top of the diagram represents north, which season occurs in the northern hemisphere when Earth is at position X?**



- A. Spring
B. Fall
C. winter
D. summer

9. A group of stars that form patterns in the sky is called

- A. a galaxy.
B. the universe
C. a supernova.
D. a constellation.

10. How do stars begin?

- A. when fusion begins in gas clouds in space
B. when other stars become supernovae and shoot off smaller stars
C. They emerge from black holes
D. when white dwarfs start generating light again

11. What unit is used to measure distance within our solar system?

- A. astronomical unit
B. kilometer
C. light-year
D. miles

12. What unit is used to measure distance outside Earth's solar system?

- A. astronomical unit
B. kilometer
C. light-year
D. miles

13. What causes a solar eclipse?

- A. the Moon's shadow on Earth
B. the Sun's shadow on Earth
C. Earth's shadow on the Sun
D. Earth's shadow on the Moon

14. What is the temperature of a star with a blue color?

- A. Cool
B. medium for a star
C. the same as the Sun
D. hot

15. What are groups of stars called?

- A. Galaxies
B. nebula
C. supernovas
D. black holes

16. How are the inner planets characterized?

- A. solid and rocky
B. gaseous and large
C. small and soupy
D. large and wet

Answer the questions :

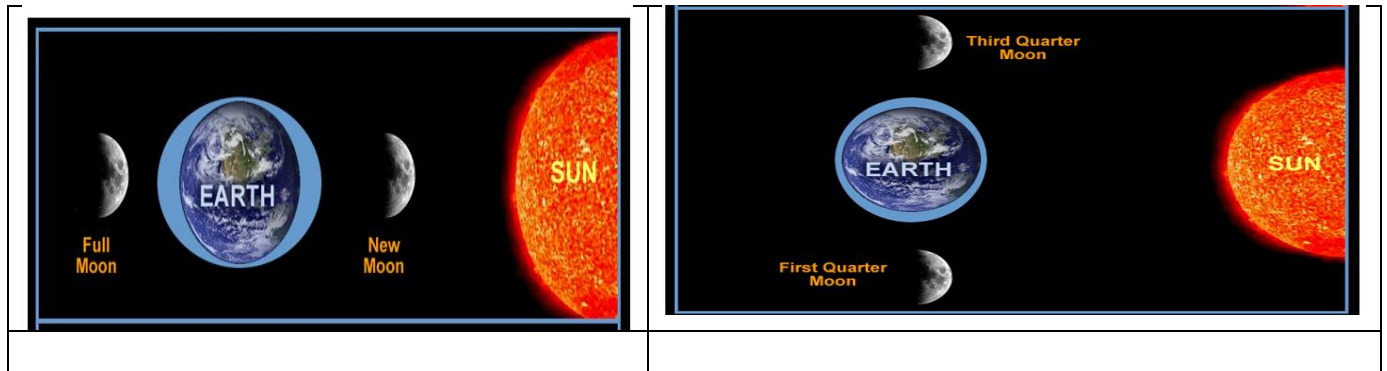
1. write each term in suitable place (use the following words)

A	B	C	D	E	F	G	H
galaxy	Local group	asteroids	meteoroids	comets	Milky way	meteor	meteorite

1	A huge star system that covers many light years of space
2	Irregularly shaped pieces of rock, metal and dust
3	Icy chunk of frozen gases, water and dust that orbit the sun
4	Earth is a part of it, and the sun are in it
5	A rocky object in space that is smaller than an asteroid
6	More than 30 galaxies form a cluster called the
7	When a rocky object from space enters earth atmosphere and lights up due to friction it is called
8	When a rocky object from space enters earth atmosphere and hits earth's surface it is called

2. write what each picture means

A. type of tide



B. type of space object



C. type of eclipse

