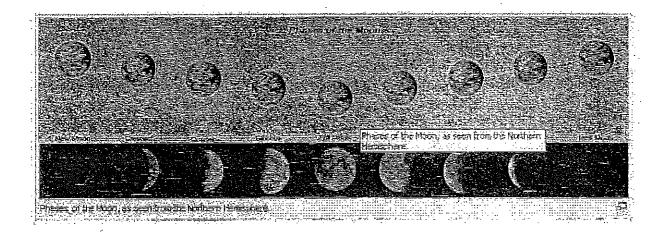
USATEST PREP

Grade 6 Science EOG Quiz

Astronomy and Space Science - (S6E2.a.) Earth, Moon, And Sun, (S6E2.b.) Solar And Lunar Eclipses

Student Name:	-	Date:
Teacher Name: Trony Dixon		Score:

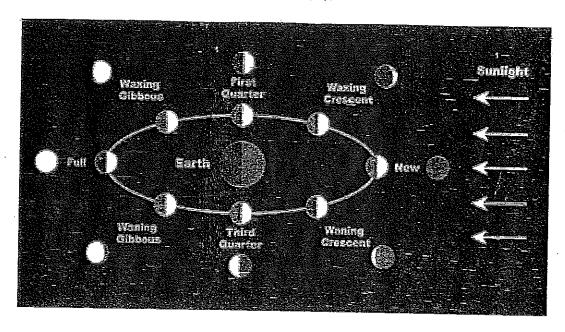
1)



During a full moon, ______ of the moon is facing Earth.

- A) none
- B) a quarter
- C) the dark side
- D) the bright side

2)



During a new moon, the moon is

- A) in between Earth and the sun.
- B) in front of the sun, in back of Earth.
- C) in front of Earth, in front of the sun.
- D) alongside Earth and in front of the sun.
- 3) What causes the phases of the moon as observed from the Earth?
 - A) Filtering of the light from the moon due to the Earth's atmosphere.
 - B) The tidal forces of the Earth's oceans change the appearance of the moon.
 - C) Change in distance of the moon from the Earth as it orbits in an elliptical orbit.
 - The angle of light from the sun as it reflects off the moon and viewed from the Earth's surface.

4)



This is a _____ gibbous moon.

- A) crescent
- B) new
- C) waning
- D) waxing

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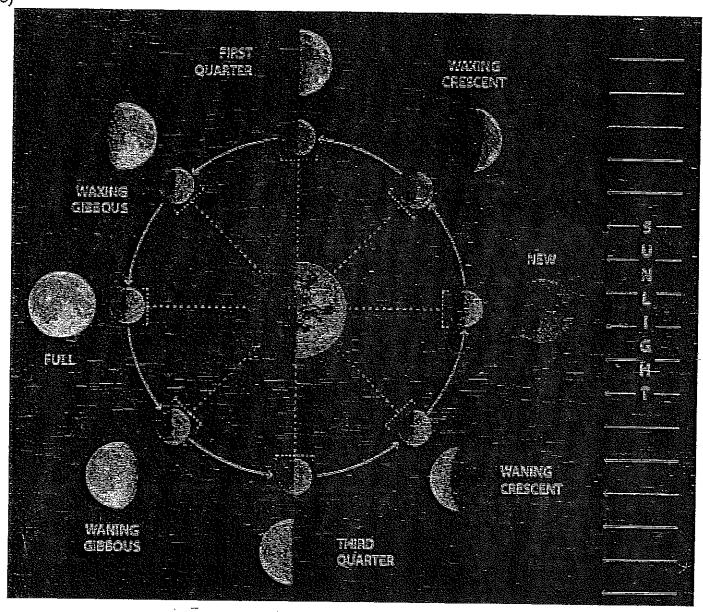
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- The phases of the moon are caused by
- Earth revolving around the sun and the sun's light being reflect off the moon. B) the moon revolving around the sun and Earth. (A
- the moon revolving around Earth and the moon reflecting sunlight towards Earth.
- the moon revolving around Earth with sunlight reflecting off of Earth towards the \bigcirc
- moom. (a
- earth? Alt bns rue of the moon when the moon is positioned between the sun and the

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- C) half moon
- D) waxing crescent

8)



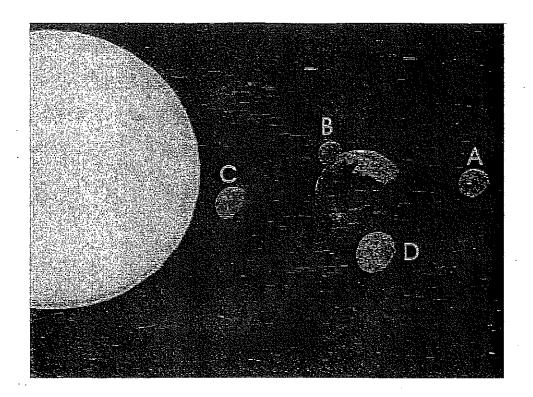
When Earth is between the Moon and the Sun, the fully lit face of the Moon is seen from Earth. This phase of the Moon is called a _____ moon.

- A) crescent
- B) full
- C) gibbous
- D) new
- 9) In which phase is the full illuminated face of the Moon visible on Earth?
 - A) New moon
 - B) Full moon

- C) Waning gibbous
- D) Waxing crescent

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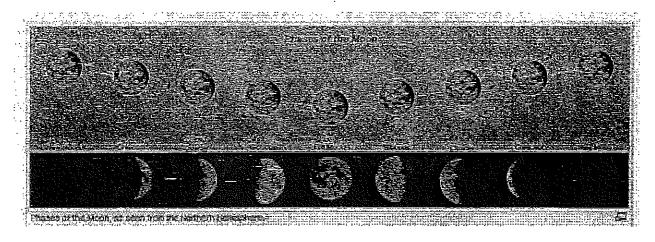
10)



Which location of the moon relative to the sun and earth may produce a waning (getting smaller nightly) half moon?

- A)
- B)
- C
- D)

11)



There is a pattern to the phases of the moon. The time between one full moon to another is about

- A) one year.
- B) one month.
- C) two weeks.

14)



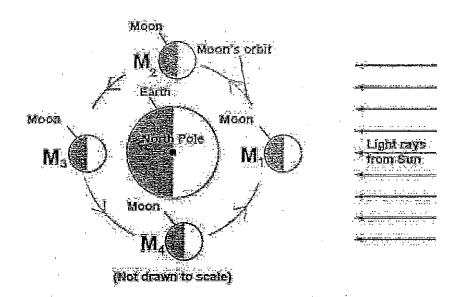
The third quarter phase of the Moon as seen on Earth is shown in the given picture. Approximately what percent of the illuminated Moon's surface is seen in this phase?

- A) 25%
- B) 50%
- C) 75%
- D) 100%

15) During which phase of the moon is the side facing away from Earth illuminated?

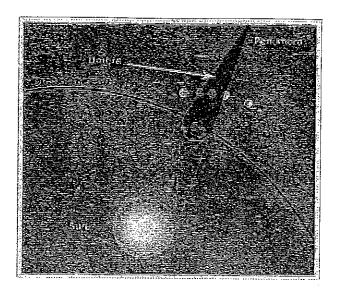
- A) New moon
- B) Full moon
- C) Waxing gibbous
- D) Waning crescent

16)



Which one of the moons in this picture shows the position during the full moon?

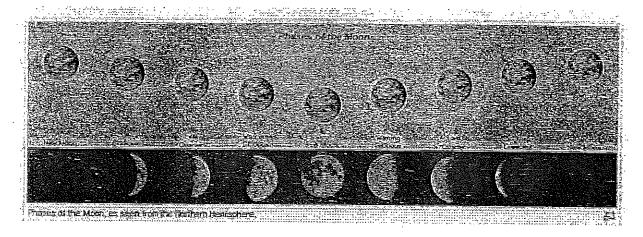
- A) M1
- ·B) M2
- C) M3
- D) M4



This diagram shows a lunar eclipse. During a lunar eclipse, the Earth is

- A) behind the Sun and the Moon.
- B) in between the Sun and the Moon.
- C) in front of the Sun and the Moon.
- D) next to the Sun but not the Moon.

18)



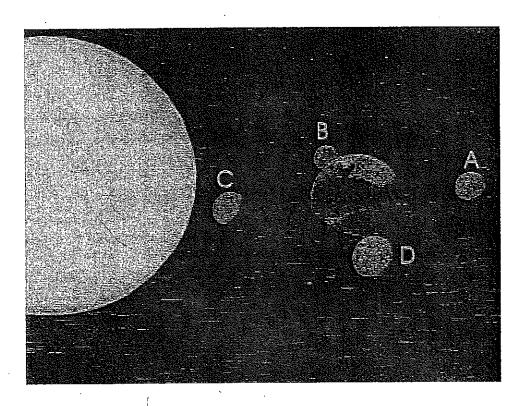
A solar eclipse can ONLY occur when the moon is in which phase?

- A) New Moon
- B) Full Moon
- C) Quarter Moon
- D) Crescent Moon

19) Which is the correct alignment for a solar eclipse?

- A) sun moon Earth
- B) moon sun Earth
- C) Earth sun moon
- D) moon Earth sun

20)



Which location of the moon relative to the sun and earth may produce a lunar eclipse?

- A)
- B)
- C)
- D)

6th Grade Science Sample Assessment Items S6E3d.Tides

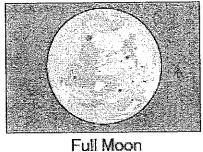
The Moon	has the	greatest effect on	Earth's	
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A. year 🤋

A

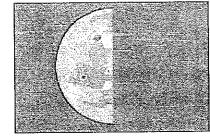
B

- B. seasons®
- C. ocean tides*
- D. daylight hours
- During which of these phases of the moon will the tides be highest?





Crescent Moon



Quarter Moon



Gibbous Moon

- On most ocean shorelines, the water rises slowly and covers the land twice a day. Then it slowly falls back. What is this movement called?
 - A. current
- B. wave
 - C. tide●
 - D. drift 9

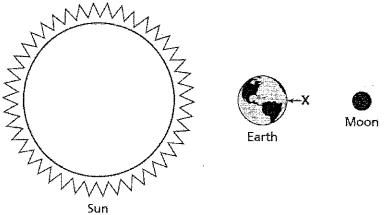
6th Grade Science Sample Assessment Items S6E3d.Tides

A diagram of the sun, Earth, and the moon is shown below.

A. rotation of the Sun

B. solar energy from the Sun 9

C. Earth's revolution around the Sun D. gravity due to the Sun and the Moon



When the sun, Earth, and the moon are aligned in the positions shown in the diagram, what type of ocean tide occurs at location X? A. lowest high tides @ B. highest high tides® C. red tides near the coast® D. rip tides near the coast The ocean's tides are caused by ____. A. strong winds B. heat from the Sun® C. the Moon's gravity® D. vibrations within Earth® 4 High spring tides generally result from _____ A. heavy spring rains B. thawing polar ice caps C. mild earthquake activity D. the alignment of Earth, the Moon, and the Sun 7 What causes the tides in Earth's oceans?

6th Grade Science Sample Assessment Items S6E3d.Tides

Why are tides continually rising and lowering every day? A. because deep ocean currents are constantly changing B. because the position of the Moon is constantly changing C. because rates of evaporation and precipitation are constantly changing D. because the direction of the wind over the ocean is constantly changing 4 Why does the ocean cover different amounts of the beach at different times of the day? A. because the Moon's gravity pulls the ocean, causing it to rise and fall* B. because Earth wobbles as it rotates, causing the ocean to rise and fall® C. because ocean currents change, adding sand to and removing sand from the beach D. because the sand is able to absorb more water as the temperature increases, lowering the ocean level® What is the main cause of ocean tides? A. energy from the sun® B. rotation of the earth9 C. change in water temperature D. gravitational pull of the moon® Draw a diagram of the Earth, Sun, and Moon that would cause the highest tides. Explain how gravity affects the Earth's tides.) Compare and Contrast a Spring Tide and a Neap Tide (include the positions of the Sun, Moon, and Earth).

The Planets and Our Universe Test

<u>Directions</u>: Write the letter of the correct choice on the answer sheet provided.

1	. Of the following, which is the larg	est body?
	a.) the moon	b.) Pluto
	c.) Mercury	d.) Jupiter
2.	District to to	not a terrestrial planet?
	a.) Mercury	b.) Mars
	c.) Earth	d.) Pluto
3.	All of the gas giants have ring syst	ems.
	a.) True	b.) False
4.	The smallest rocks in space are cal	led
	a.) meteors	b.) meteoroids
	c.) asteroids	d.) comets
5,	Which of the planets does NOT har	ve any moons?
	a.) Mercury	b.) Mars
	c.) Uranus	d.) Jupiter
	or, crairas	u.) Jupitei
6.	controls the move	ement of everything in space.
	a.) planets	b.) solar energy
	c.) gravity	d.) black holes
7.	Which statement about the big bang a.) The Universe will never end	c.) New matter is continuously created.
	b.) The Universe is filled with r	adiation in all directions.
8.	Which of the following planets has	extreme temperatures due to a runaway greenhouse effect?
	a.) Mercury	b.) Venus
	c.) Earth	d.) Mars
9.	Which planet is tilted sideways on it	ts axis?
	a.) Jupiter	b.) Saturn
	c.) Uranus	d.) Neptune
10.	Which two planets have retrograde i	rotation (they rotate backwards)?
	a.) Mars and Venus	b.) Uranus and Neptune
	c.) Venus and Jupiter	d.) Venus and Uranus
11.	Early astronomers believed that the	Earth was the center of the Universe. This theory is called the
	a.) Big Bang Theory	b.) Heliocentric Model
	c.) Geocentric Model	d.) Laws of Gravity
2.	Copernicus discovered that everythin	ng in our solar system revolved around the Sun NOT Earth. This
	theory is called the	-5 car some system reversed around me Sun NO1 Earm. 1ms
	a.) Big Bang Theory	b.) Heliocentric Model
	c.) Geocentric Model	d.) Laws of Gravity
		▼

	i.) Mars and Saturn		and Mars
	.) Jupiter and Saturn	•	and Jupiter
	-, <u>F</u>		water bupater
14. A	According to the big bang the in a very tin		of the universe were gathered together under extreme
a	.) pressure	b.) densi	ty
С	.) temperature	d.) all of	the above
	Of the following, which is the	e largest?	
	.) Sun	b.) galax	y
С	.) Earth	d.) solar	system
16. V	Which of the following have	NOT been done l	by humans?
	.) visited the Moon		b.) visited Mars
C.) stayed at the International	Space Station	d.) orbited Earth
	Which of the following stater he Sun is	nents about the S	un is TRUE?
a.) a large yellow planet	 b.) in orb	it around the Earth
) the center of the Universe	-	erage sized star
18. W	hy do astronauts in orbit fe	el weightless?	
) They are falling toward Ea	-	are falling away from Earth.
) There is no air pressure in	, .	is no gravity while in orbit
19. W	hat is the Solar System mad	le of?	
a.) stars	b.) the Su	n and planets
c.) the Sun, planets and moon	s d.) the Su	n, planets, moons and smaller objects
	a spacecraft travels from Ea ill between Earth and the sp		the Solar System, what will happen to the gravitational
a.) become zero	b.) increa	se
c.) decrease	d.) remain	the same
1. W	hich of the following holds	us to Earth's surf	ace?
a.)	Earth's rotation	b.) Earth'	s revolution
c.)	gravity	d.) air pre	ssure
2	and		affect the force of gravity that one object has on another
a.)) Mass and distance	b.) Mass a	and weight
c.)	Mass and Volume	d.) Mass a	and direction
etion	s: Identify which statemer	ıt below describe	es a comet, asteroid, or a meteor.
	A. Comet	B. Meteor	C. Asteroid
	structure is considered to be		
	eces of dust and rock that bu		
.5. Co	omposed of dust and rock m	ixed with frozen	water, methane, and ammonia.
			bserved, at times, from Earth
77 N.T	act of these are located between	room the exhite of	Mara and Irreston

2nd semester Final Exam Study Guide

Use the Sepup textbook (Units E-G) or the red earth science book to answer the following statements.

1.	Which	of the fo	llowing would N	OT describ	e weather?	,		
a.) Ho	w many	clouds the	nere are in the sky	ý	Ъ.) The amoun	at of water pollution in	a lake
c.)The	force o	of the win	d through the tree	es	d.) Whether it	is raining or not	
2.	What	is the diff	erence between w	veather and	l climate?			
3.	Identit	fy the foll	owing as true or f	false.				
	a)	Some pa	arts of the earth re	eceive more	e precipitat	ion than othe	er parts.	
	b)	The tota	l amount of water	r on the ear	rth stays th	same throu	gh the ages.	
	c)	The wat	er on the earth mo	oves from p	place to pla	ice.		
	d)	The air j	pressure increases	s as you go	up in the a	tmosphere.		
	e)	The atm space.	osphere has diffe	rent tempe	ratures and	pressures at	different altitudes unt	il it reaches
	f)	The tem	perature in the atı	mosphere i	increases as	it gets close	er to the sun.	
	g)	Water c	an be either a soli	d or a liqui	id, but not	ı gas.		
4.	The ai	r above tl	ne earth's surface	is mostly r	made of wh	at three gase	es?	
5.	The _			powers Ea	arth's wate	r cycle.		
6.	Which	of the fo	llowing factors de	oes NOT in	nfluence cl	mate?		
	a)	Clouds	b) Global wind	patterns	c) Soil co	mposition	d) The sun's energ	Sy
7.	Most o	of the wat	er on Earth is loca	ated in Ear	th's		•	
8.	Cloud	s are mos	tly made of				·	

9.	Ocean currents affect climates because they transfer from one part of the world to
	another.
10.	What causes the length of a shadow to change over the course of a day?
11.	One day on Earth is the time it takes for
12.	What would cause a planet to have a shorter <i>day</i> than Earth?
	The part of the pa

13. What would cause a planet to have a longer *year* than Earth?

Use the table below to answer Questions 14 & 15

Average Amount of Precipitation (centimeters)

	Winter	Spring	Summer	Fall
Place A	20cm	24cm	21cm	20cm
Place B	0cm	42cm	6cm	5cm
Place C	2cm	1cm	1cm	2cm
Place D	35cm	40cm	39cm	37cm

- 14. a) Which place has the driest climate?
 - b) Which place has the wettest climate?
- 15. Each place has an average annual temperature above 18 °C (64 °F). Which place is most likely to have a tropical climate?
- 16. Which of the following causes the ocean's tides?
 - a) Earth's revolution around the Sun
 - b) The gravitational pull between Earth and the Sun and the Moon
 - c) The magnetic field between Earth's north and south poles
 - d) Changes in atmospheric pressure

18 % of the Moon is ALWAYS lit by the Sun.	
19. There is a full moon on the 1 st and 29 th of the month. What phase is the moon on the 15 th of the month?	
a) Quarter b.) New c.) Full d.)crescent	
20. The phases of the Moon are caused by	
21. Which of the following results from the tilt of the Earth?	
.) A bulge at the equator b.) A longer year every fourth year c) More daylight in summer than in the)
22. What causes seasons on Earth?	
23. Describe two things that would happen if the Earth revolved around the Sun more slowly.	
24. What would happen if the Earth were tilted more on its axis?	
25. Draw a diagram that best represents the position of the Earth, Moon, and Sun during a quarter Mo)on.
26. Draw a diagram that best represents the position of the Earth, Moon, and Sun during a New Moon	1.
27. Draw a diagram that represents the Earth, Moon, and Sun during the <i>most</i> extreme tides.	

17. One cycle of the moon's phases lasts about one

28.	On which planet(s) would you weigh less than you weigh on Earth? Why?
29.	is the only planet tilted sideways on its axis.
30.	What does the big bang theory tell us about our Universe?
31.	The Milky Way is a galaxy.
32.	The Model of the Universe states that the Earth is the center of our Universe. Early astronomers believed in this theory.
33.	The Model of the Universe states that the Sun is the center of the Universe.
34.	Compared to other stars, our Sun is in temperature and size. It is also through its life cycle.
35.	The Solar System is composed of the,, and other small bodies.
36.	Gravitational pull as objects move away from each other.
37.	Most energy for life on Earth comes from the
38.	holds us to Earth's surface.