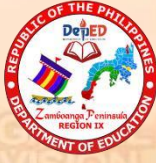


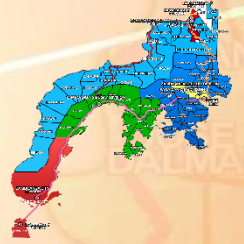


Republic of the Philippines
 Department of Education
 Regional Office IX, Zamboanga Peninsula



- JANUARY
Makugihon
- FEBRUARY
Mahigugmaon
- MARCH
Matinabangon
- APRIL
Matinahuron
- MAY
Mahapsay og Malimpyo
- JUNE
*Maabtik og Masunod sa
Dhaklong Oras*
- JULY
Maantigo og Maabilidad
- AUGUST
*Maginhuhunuan
para sa Uban*
- SEPTEMBER
Madaginton
- OCTOBER
Matinud-anon
- NOVEMBER
Masaligan
- DECEMBER
Maalampon

5



Zest for Progress
 Zeal of Partnership

Science Grade 5

Quarter 4 - Module 6

Beliefs and Practices Associated with the Moon



Name of Learner: _____

Grade & Section: _____

Name of School: _____



What I Need to Know

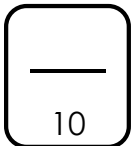
This module was designed and written with you in mind. It is here to help you master the concepts behind **Infer the pattern in the changes in the appearance of the Moon (S5FE-IVg-h-7)**. The scope of this module permits it to be used in many different learning situations. The language used recognizes the diverse vocabulary level of students. The lessons are arranged to follow the standard sequence of the course. After going through this module, you are expected to:

1. Know some beliefs and practices that are associated with the moon;
2. Give the difference of high tide and low tide caused by the moon.

Have you heard of superstitions about moon? Superstitions are beliefs based on opinions, observations, and experiences but have no scientific explanation. Even in this modern age, some people still believe in superstitions.



What's In



Activity 1: "Fill Me"

Directions: Below are the phases of the moon. Label each correctly.

Phases of Moon Figures	Name of Moon Phases

--	--

2. Matching Type: Match column A with the correct answer on column B, write only the letter of answer on the blank provided at column A's right side.

Column A

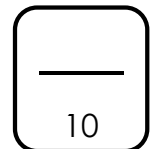
- ____ 1. The phase seen when the moon is between the Sun and Earth
- ____ 2. The phase when most of the lighted portion of the moon is visible in the sky and seen before a full moon
- ____ 3. Earth's only natural satellite
- ____ 4. The phase when the moon appears in a semi-circular form and is seen after a new moon
- ____ 5. The phase that appears after a waning crescent

Column B

- a. new moon
- b. moon
- c. waxing crescent
- d. waning gibbous
- e. full moon



What's New



Before you begin studying this module, please answer the simple test below to determine how much you already know about our topic.

Put a checkmark (✓) in the blank if the statement is a traditional belief or superstition, and put an (X) mark if it is not.

Activity 2: Correct Me !

- ____ 1. A sick person should not look at the moon.
- ____ 2. A plant will grow healthy if watered regularly.
- ____ 3. Sweeping the floor at night will bring bad luck.
- ____ 4. Fisherman get a poor catch of fish when there's a full moon.
- ____ 5. A black butterfly is a sign that someone you love will die.
- ____ 6. A child who drinks milk and eats regularly will grow healthy and strong.

_____7. If there's a will, there's a way.

_____8. If a spoon drops from the table, a female visitor will arrive.

_____9. Boiled guava leaves is an effective remedy for infection and wounds.

_____10. A woman who sings while cooking will become an old maid.

Activity 3: Word Association !

Directions: Find the following words in the puzzle.

N	E	A	P	T	I	D	E	R	R	T	S	C	E
S	P	R	I	N	G	T	I	D	E	H	S	S	A
O	N	F	H	J	K	L	F	D	V	T	Y	U	N
B	S	U	P	E	R	S	T	I	T	I	O	N	M
L	I	L	O	M	O	O	N	V	B	N	V	D	F
T	O	L	J	G	L	K	H	G	B	T	Y	X	F
X	P	M	J	K	B	E	L	I	E	F	S	H	W
W	Y	O	L	L	K	X	X	Z	S	E	D	X	C
Q	D	O	F	H	J	H	J	H	T	I	D	E	S
W	X	N	C	F	G	J	K	T	Y	Q	X	Z	D
H	I	G	H	T	I	D	E	D	S	Z	X	G	X
Z	N	E	W	M	O	O	N	Q	W	W	Q	R	T

*SUPERSTITION

*FULL MOON

*BELIEFS

*SPRING TIDE

*NEAP TIDE

*TIDES

*HIGH TIDE

*NEW MOON

*MOON

*SUN



What is it

Superstitious Beliefs

Phases of the moon are often associated with superstitious beliefs because they have a significant impact on Earth and, in turn, affect our lives.

Moon and Planting

Will there be any difference if a farmer plants his crop during a full moon or a new moon? Many farmers believe that planting when the moon is in specific phases may bring good harvests. It is because the growth rate of plants can be affected by them. The different phases of the moon influence the groundwater beneath the Earth and affect the movement of fluids within plants.

In the moon's waxing phases from the new moon to the full moon, the soil's moisture is at a higher level. It may bring germination and growth to plants; that is why many farmers opt to sow the seeds of their crops during this time.

Moon and Weather

When the Sun, Moon, and Earth line up and the moon is at its perigee (closest to the Earth), you can expect a lower temperature. This is due to the combined gravitational pull of the moon and the Sun. The moon does affect the weather but not significantly. It affects the atmosphere the same way it affects the ocean. When the moon phase is a full moon or new moon, it causes a "bulge" in an ocean; a similar thing happens with the atmosphere; it attracts the atmosphere to itself.

Tides

Gravitational forces exist between the moon and Earth to hold each other in their respective positions. These gravitational forces affect Earth's tides. Tides are the rising and falling of the sea levels with respect to land. Imagine the moon as a magnet and Earth as a huge metal. When one side of the Earth is close to the moon, this side of the Earth will be pulled towards the moon, causing it to bulge. Since Earth is covered with 75% of water, this bulging side causes the ocean level to rise. The rising of ocean level is known as **high tide**. On the other hand, the other side experiences a low water level since the water is concentrated on the other side. This is known as **low tide**.

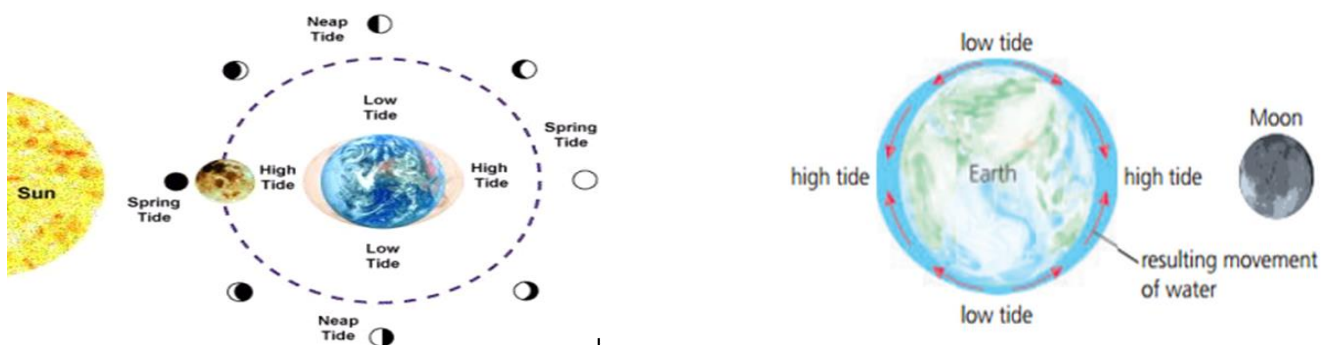


Figure 8 The Moon is primarily responsible for the tides. (Water levels are exaggerated.)

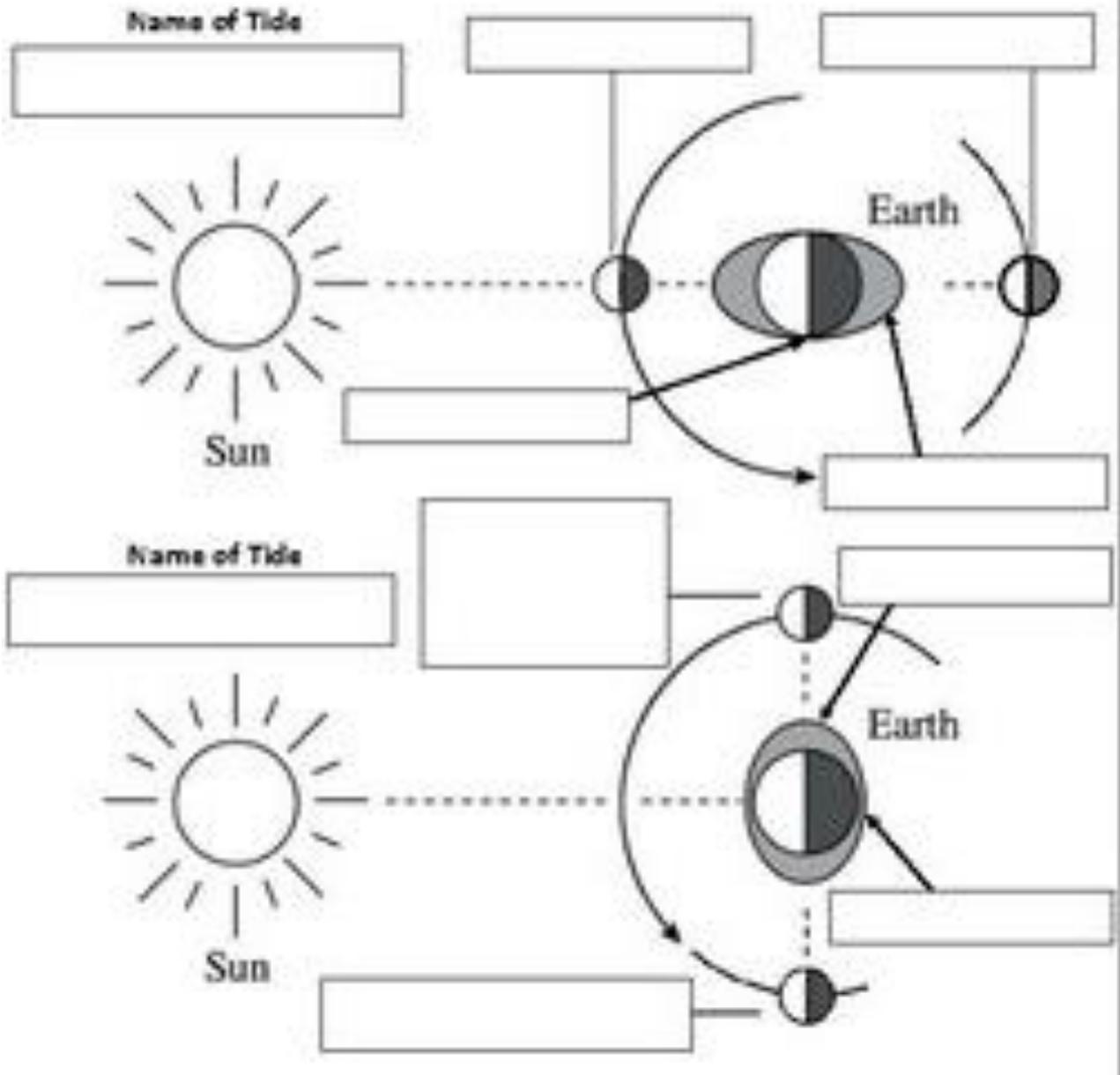
<https://www.google.com/search?q=high+tide+and+low>



What's More

Activity 4: "Tides Labeling"

Directions: Identify below TIDES and label high and low tides, quarter moon, new moon and full moon.



What I Can Do

You've reached in this page. It means you really understand your lesson. Keep it up! Here is your another activity to answer. Good luck!

20

Activity 5: You can create more!

Directions: Make an illustration/collage of the different tides using your own available materials found at home.

RUBRICS				
	5	4	3	2
Content	Draw the figure completely with its label.	Draw only the major parts with out label.	Draw only few pictures with label .	Draw few pictures with out label.
Originality/ Creativity	Draw and use materials with his own.	Draw and use some materials not all the figures.	Draw only the illustration with out using other materials.	Let others draw to you.
Neatness	The illustration is exceptionally neat. Pupil has exceeded the expectation of his/her ability.	The illustration is neat. Pupil has met all the expectation of his/her ability.	The illustration is neat but some parts are not.Pupil has met some expectation of his/her ability.	The illustration is messy. Pupil has not met few expectation of his/her ability.





Assessment

15

Hey kid! You are about to end this fun module. But, take this assessment to assess if you understand your lesson. Good luck!

Directions. Write **True** if the statement is correct and **False** if its not.

- _____ 1. During the ancient times, many farmers believe that different phases of the moon affect the *growth of their crops*.
- _____ 2. Phases of the moon are *not associated* with superstitious beliefs because they have a great impact on Earth and, in turn, affect our lives.
- _____ 3. Fisherman *believe* that the moon also affects the number of fishes they could catch.
- _____ 4. In ancient times, people *not believed* that the moon has a big influence in their lives.
- _____ 5. The *moon* tells them when to plant and when to harvest.
- _____ 6. Assumptions without scientific bases are called *superstitious beliefs*.
- _____ 7. The rising of ocean level is known as *high tide*.
- _____ 8. Low water level this is known as *low tide*.
- _____ 9. Low tides occurs *thrice* a day.
- _____ 10. High tides are affected by both *sun and moon gravitational pulls*.



Additional Activities **Activity 7: Let's add more!**

Give atleast two beliefs and practices in connection with the phases of the moon. Do you believe in those practices? Why or why not?

10

.....

References

Books

(Deped Philippines 2016)

Deped Philippines. "Science Beyond Borders Textbook 5." In *Science Beyond Borders Textbook 5*, by Ednaliza R. Garcia, Eliza A. Lopez, Mary Jean G. dela Cruz, and Harold A. Arradaza Evelyn T. Sarte, 198-201. Araneta Avenue, Quezon City Philippines: Vibal Group, Inc., 2016.

Deped Philippines. "Teachers Guide Science Beyond Borders Manual." In *Teachers Guide Science Beyond Borders Manual*, by Ednaliza R. Garcia, Eliza A. Lopez, Mary Jean G. dela Cruz, and Harold a. Arradaza Evelyn T. Sarte, 107-108. Araneta Avenue, Quezon City Philippines: Vibal Group, Inc., 2016.

Electronic Resources

<https://www.google.com/search?q=types+of+tides+worksheet+answer+key>

<https://www.google.com/search?q=high+tide+and+low>

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OUR EDEN LAND

Here the trees and
flowers bloom,

Here the breezes

gently blow,
Here the birds sing
merrily,
And liberty forever
stays,

Here the Bajaos
Swam the see,
Here the Samals live in
peace,
Here the Tausogs
thrive so free,
With the Yakans in
Unity.

Gallant men
And Ladies fair,
Linger with love and
care,

Golden beams of
sunrise and sunset,
Are visions you'll never

forget.
Oh! That's Region IX...

Hardworking people
abound,
Every valley and dale
Zamboangenos,
Tagalogs, Bicolanos,
Cebuanos, Ilocanos,
Subanens, Boholanos,
Ilongos,
All of them are proud
and true
Region IX our Eden
Land.

Region IX, our Eden
Land

I AM A FILIPINO

by Carlos P. Romulo

I am a Filipino – inheritor of a glorious past, hostage to the uncertain future. As such, I must prove equal to a two-fold task – the task of meeting my responsibility to the past, and the task of performing my obligation to the future.

I am sprung from a hardy race – child many generations removed of ancient Malayan pioneers. Across the centuries, the memory comes rushing back to me: of brown-skinned men putting out to sea in ships that were as frail as their hearts were stout. Over the sea I see them come, borne upon the billowing wave and the whistling wind, carried upon the mighty swell of hope – hope in the free abundance of the new land that was to be their home and their children's forever.

This is the land they sought and found. Every inch of shore that their eyes first set upon, every hill and mountain that beckoned to them with a green and purple invitation, every mile of rolling plain that their view encompassed, every river and lake that promised a plentiful living and the fruitfulness of commerce, is a hollowed spot to me.

By the strength of their hearts and hands, by every right of law, human and divine, this land and all the appurtenances thereof – the black and fertile soil, the seas and lakes and rivers teeming with fish, the forests with their inexhaustible wealth in wild and timber, the mountains with their bowels swollen with minerals- the whole of this rich and happy land has been for centuries without number, the land of my fathers. This land I received in trust from them, and in trust will pass it to my children, and so on until the world is no more.

I am a Filipino. In my blood runs the immortal seed of heroes- seed that flowered down the centuries in deeds of courage and defiance. In my veins yet pulses the alien foe, that drove Diego Silang and Dagohoy into rebellion against the foreign oppressor.

That seed is immortal. It is the self-same seed that flowered in the heart of Jose Rizal that morning in Bagumbayan when a volley of shots put an end to all that was mortal of him and made his spirit deathless forever; the same that flowered in the hearts of Bonifacio in Balintawak, of Gregorio del Pilar at Tirad Pass, of Antonio Luna at Calumpit, that bloomed in flowers of frustration in the sad heart of Emilio Aguinaldo at Palanan, and yet burst forth royally again in the proud heart of Manuel L. Quezon when he stood at last on the threshold of ancient Malacañang Palace, in the symbolic act of possession and racial vindication. The seed I bear within me is an immortal seed.

It is the mark of my manhood, the symbol of my dignity as a human being. Like the seeds that were once buried in the tomb of Tutankhamen many thousands of years ago, it shall grow and flower and bear fruit again. It is the insigne of my race, and my generation is but a stage in the unending search of my people for freedom and happiness.

I am a Filipino, child of the marriage of the East and the West. The East, with its languor and mysticism, its passivity and endurance, was my mother, and my sire was the West that came thundering across the seas with the Cross and Sword and the Machine. I am of the East, an eager participant in its struggles for liberation from the imperialist yoke. But I know also that the East must awake from its centuries sleep, shake off the lethargy that has bound its limbs, and start moving where destiny awaits.

For I, too, am of the West, and the vigorous people of the West have destroyed forever the peace and quiet that once were ours. I can no longer live, a being apart from those whose world now trembles to the roar of bomb and cannon shot. For no man and no nation is an island, but a part of the main, and there is no longer any East and West – only individuals and nations making those momentous choices that are the hinges upon which history revolves. At the vanguard of progress in this part of the world I stand – a forlorn figure in the eyes of some, but not one defeated and lost. For through the thick, interlacing branches of habit and custom above me I have seen the light of the sun, and I know that it is good. I have seen the light of justice and equality and freedom, my heart has been lifted by the vision of democracy, and I shall not rest until my land and my people shall have been blessed by these, beyond the power of any man or nation to subvert or destroy.

I am a Filipino, and this is my inheritance. What pledge shall I give that I may prove worthy of my inheritance? I shall give the pledge that has come ringing down the corridors of the centuries, and it shall be compounded of the joyous cries of my Malayan forebears when first they saw the contours of this land loom before their eyes, of the battle cries that have resounded in every field of combat from Mactan to Tirad Pass, of the voices of my people when they sing:

"I am a Filipino born to freedom, and I shall not rest until freedom shall have been added unto my inheritance- for myself and my children and my children's children- forever."