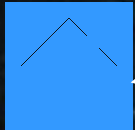


Phases of the Moon

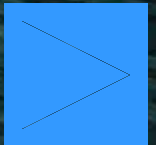
Click this button to come back to this slide.



Part 2

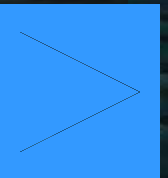
Click this button if you have already started 😊

Click these buttons to go onto the next slide.



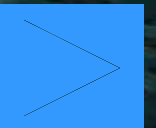
A Thought...

Have you ever looked up to the sky and wondered why the moon takes unusual shapes at different times of the month? If so, you'll find your answers here! If not, I'm sure you will still learn something interesting. 😊



Quick Facts

Did you know that our moon has to travel 382,400 km to get around (revolve) the Earth? That is 237,612 miles!



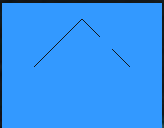


Just for fun...

How many times would it take to go between Washington D.C. and San Francisco to equal the same distance as the moon travels around the Earth each month?

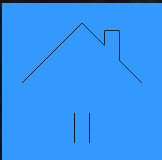
Click on the answer you think is correct.

- a. 5 times
- b. 50 times
- c. 100 times
- d. 500 times



Good Guess!

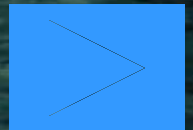
Try another one 😊





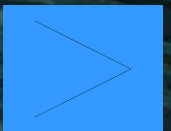
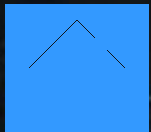
Yeah you Got It!!!

It would take 97 times going between Washington D.C. and San Francisco to equal the same distance as the moon travels around the Earth each month.



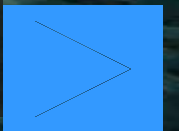
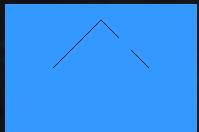
Quick Fact #2

Did you know that moon rocks brought back to Earth by the Apollo missions date the moon to be about 4.5 billion years old? That is pretty old! But, it is still a few million years younger than the Earth.



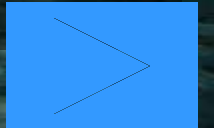
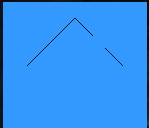
Quick Fact # 3

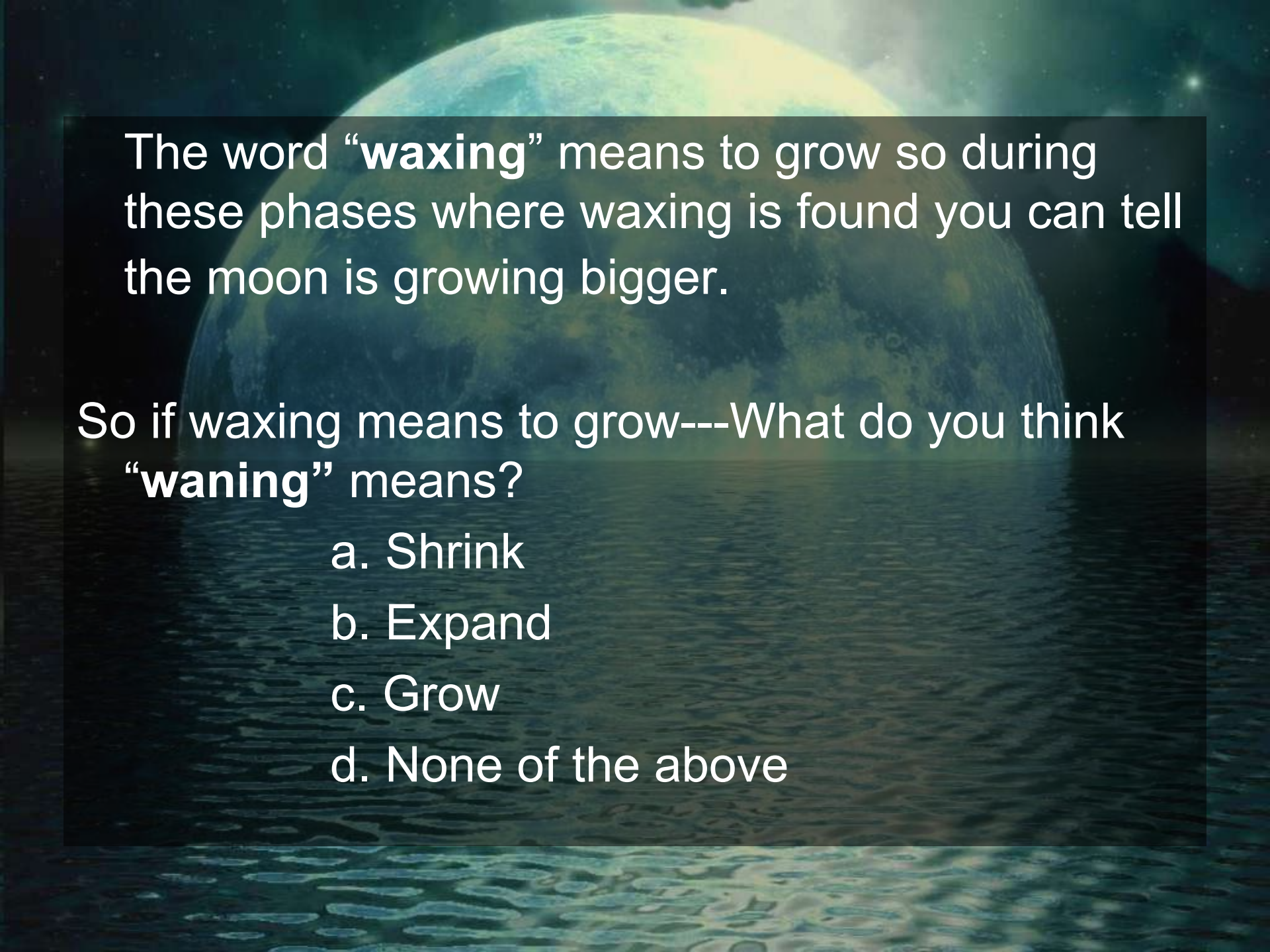
We only see one side of the moon which is called the light side. The other side that we do not see is called the dark side. While the moon revolves around the Earth it takes it about 29.5 days to go through a full cycle.



Moon Cycles

The Moon goes through different phases each month which include New Moon, Waxing Crescent, First Quarter, Waxing Gibbous, Full Moon, Waning Gibbous, Third Quarter, and Waning Crescent. Then the phases start over again.





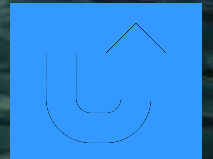
The word “**waxing**” means to grow so during these phases where waxing is found you can tell the moon is growing bigger.

So if waxing means to grow---What do you think “**waning**” means?

- a. Shrink
- b. Expand
- c. Grow
- d. None of the above

Oops

Try Again!

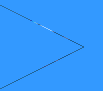




GREAT GUESS!!!

Nice work!

I think you are ready to learn some more 😊

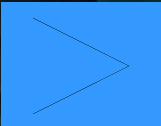




Before we go on...

Check out this website. It has a short video and a little game that has to do with the phases of the moon.

<http://www.wonderville.ca/asset/phases-of-the-moon>



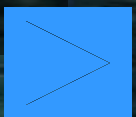
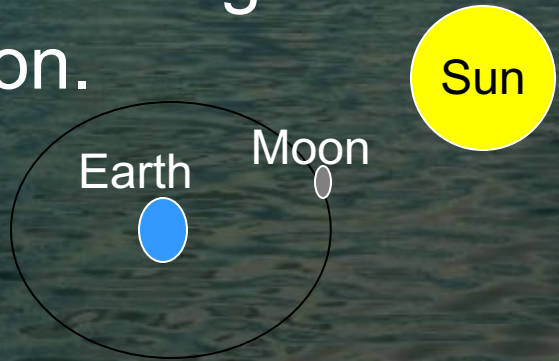


New Moon



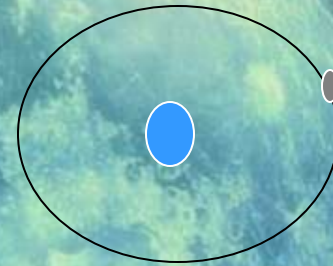
Pictures courtesy of NASA

The phases begin with a new moon. This is when the moon is blocking the sun so it looks like there is no moon.





Waxing Crescent



The next phase the moon revolves counter-clockwise just a little bit to make a waxing crescent.





So which is next?

So it is time for a question for you! We have done New Moon and Waxing Crescent so what do you think comes next?

- a. Waning Crescent
- b. Full Moon
- c. Waxing Gibbous
- d. First Quarter



Oops

- Remember they go in this order New Moon, Waxing Crescent, First Quarter, Waxing Gibbous, Full Moon, Waning Gibbous, Third Quarter, and Waning Crescent.

Try that one again!

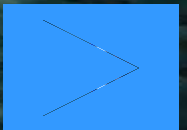
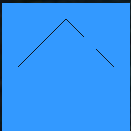




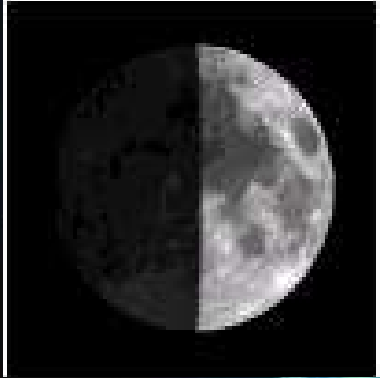
Yes!

Nice work!

Let's see what the First Quarter is all about.



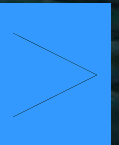
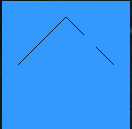
First Quarter



First Quarter



During the First Quarter phase you can see that the moon looks like it is cut in half.



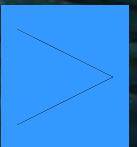
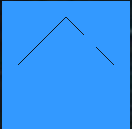
Waxing Gibbous



Waxing Gibbous

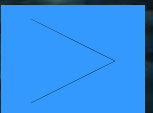
Sun

Now you can see that the moon is just about full. In just a few more days you will see the whole moon light up!



Cool Moon Facts

- The moon isn't round it is actually shaped like an egg!
- The moon shakes! Apollo astronauts took a seismograph (this measures earthquakes on Earth) and found that there were moonquakes.



Full Moon

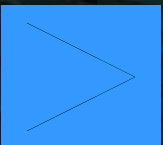


Full Moon



You can see the reflection of the sun in the moon which is why we see the whole face of the moon.

Did you know that there are different names for each of the full moons? The Native Americans gave each moon a different name. [Click here](#) to find out more!





Stop!



Let's see what you have learned so far:

What is the correct order of the phases that we have talked about so far?

- a. waxing crescent, full moon, new moon, first quarter, waxing gibbous
- b. new moon, waxing crescent, first quarter, waxing gibbous, full moon
- c. new moon, waxing gibbous, first quarter, waxing crescent, full moon
- d. full moon, waxing crescent, first quarter, waning gibbous, new moon

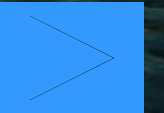
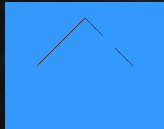
Oops Take another look...

- Remember that the new moon is considered to be the start of the phases of the moon.





Way to pay attention!



Part Two



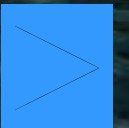
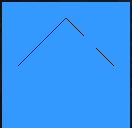
Waning Gibbous



Sun

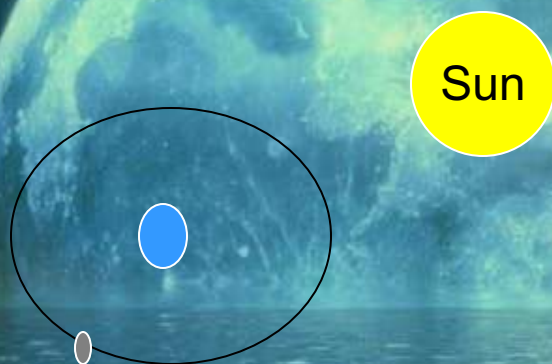
We lost just a little bit of the moon
since the full moon.

So what is going to happen next?

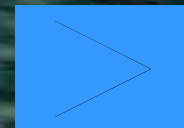




Last Quarter



- If you guessed that we would be down to half a moon, you were right!





Waning Crescent

Sun

Look! We're back to the little sliver of the moon.
So what moon phase would come next?

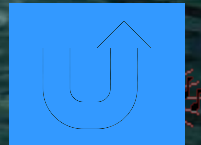
- a. Full moon
- b. Third quarter
- c. Waxing Crescent
- d. New Moon





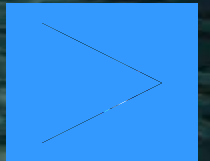
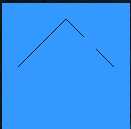
Are you sure?

Check that question out again 😊



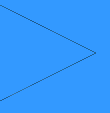


Nice Going!



Test Yourself...

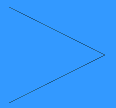
[http://starchild.gsfc.nasa.gov/docs/StarChild/
solar_system_level2/moonlight.html](http://starchild.gsfc.nasa.gov/docs/StarChild/solar_system_level2/moonlight.html)





Play this game...

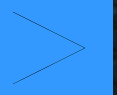
http://www.sciencenetlinks.com/interactives/moon/moon_challenge/moon_challenge.html





Last one...

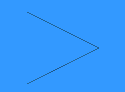
- Go to the website:
http://www.quia.com/rd/11412.html?AP_rand=1246962103
- On this site you will find a quick quiz about the moon (lunar) phases. Please take the quiz. When you are done click on Check Answers. **Do not click on I Give Up!!!!**



Moon Phases Project

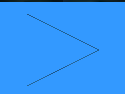
You will choose a program in which you want to use:

- [Glogster](#)
- [Prezi](#)
- [Animoto](#)
- [Photopeach](#)



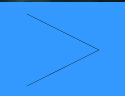
Project Requirements

- All 8 moon phases included.
- Position of the sun, moon, and earth included for each phase.
- Presentation - - neatly done, well organized
- Conventions - - accurate spelling and grammar



Project Requirements

- You may not use the pictures from this presentation.
- You may not use just one picture to represent all of your moon phases.



Rubric for Evaluation

	Beginning 0	Developing 10	Accomplished 15	Excellent 20
Moon Phases	Less than five of the moon phases are correctly illustrated and described.	At least five of the moon phases are correctly illustrated and described.	Six or seven of the moon phases are correctly illustrated and described.	All moon phases are correctly illustrated and described.
Position of sun, moon, & earth x2	Correctly illustrated and/or described for less than five phases.	Correctly illustrated and/or described for at least five phases.	Correctly illustrated and/or described for all six or seven of the phases.	Correctly illustrated and/or described for all eight phases.
Conventions	There are more than 2 errors in capitalization, punctuation, grammar.	There are 2 errors in capitalization, punctuation, grammar.	There is 1 error in capitalization, punctuation, grammar.	Capitalization, punctuation, and grammar are correct throughout the project.
Presentation	The project is distractingly messy and/or very poorly designed.	The project may be a bit messy and/or poorly designed.	The project is attractive in terms of design, layout and neatness.	The project is exceptionally attractive in terms of design, layout, and neatness.





Post Your Plan

What type of presentation do you plan to use? Include your name and name of presentation.

- Fourth period post a stickie.
- Eighth Period post a stickie.