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The Moon's Phases



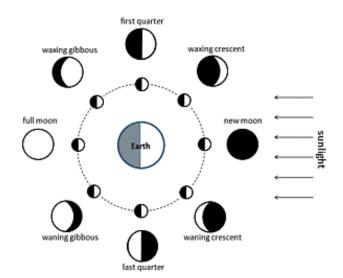
Phases of the Moon

The moon appears to take on different shapes depending upon when we look at it. But does it really change shape? No, it just looks that way. We know that the moon is round like a sphere (almost) and that it keeps it spherical shape as it travels around the earth.

We also know that "moonlight" isn't made by the moon. Stars are the only bodies in space that make their own light, and the sun is the only source of light in our solar system. The light we see when we look at the moon is just sunlight that shines on the moon and is reflected (bounced back) so that it reaches us on earth.

The sun always (except during an eclipse) lights up one half of the moon's surface—the half facing the sun. But we can't always see the whole lit-up side from earth. As the moon circles the earth, the amount of the lit-up side we can see changes. We call the different amounts of the lit-up moon we see, the moon's *phases*.

When the moon is between us and the sun, we can't see any of the moon's lit-up side. We call this the *new moon* or a *dark moon* phase. As the moon circles the earth (counterclockwise), we can see more and more of its lit-up side. When the moon reaches the opposite side of the earth from the sun, we see the entire sun-lit side of the moon. This is the *full moon* phase. Then, as the moon continues to circle the earth, we see less and less of the lit-up side. Finally, the moon has come full circle, and we have another *new* (*dark*) *moon*.



In ancient times, people used to use the phases of the moon as a calendar to tell time. It takes the moon about 28 days to go through all its phases, from new moon back to new moon. During the first half of its cycle, when the moon looks like it's getting bigger, we say that it is *waxing*. During the last half of its cycle, when it seems to be getting smaller, we say that it is *waning*.

Name:				The Moon's Phases					
fu	ıll moon	half	new moon	stars	sun	waning	waxing		
	Fill in the bla	anks wit	h the words ab	<u>ove</u> :					
1.	<i>Except</i> durir	ng an ec	lipse, he sun a	ways light	s up		of the		
	moon's surf	ace.							
2.	2. When the moon is between earth and the sun, we can't see any of the								
	moon's lit-u	p side. T	This is called a			·			
3.	When the su	un and n	noon are on op	posite side	es of the	earth, we	see the		
	entire lit-up side of the moon. We call this a								
4.	Moonlight is NOT made by the moon; it is light from the that is reflected by from the moon's surface.								
5.		are	the only bodies	s in space	that mal	ce their ow	n light.		
6.	During the f	irst half	of the moon's	cycle, whe	n it look	s like the n	noon is		
	getting bigg	er, we s	ay that it is						
7.	During the I	ast half	of its cycle, wh	en the mo	on seem	ns to be get	ting		
	smaller, we	say that	it is		·				
8.	There will be	e a full n	noon Friday nig	jht. How lo	ong will i	it be before	the next		

full moon?