

Name _____

Date _____

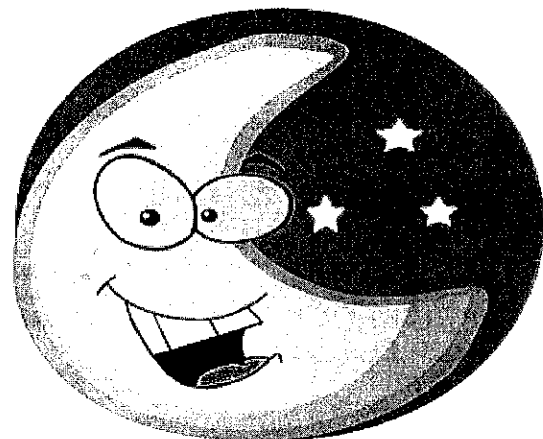
Homerroom _____ Block _____

Science – Moon Phases

Fill in the blanks to identify what you know about the phases of the moon.

Lunar phase or phases of moon indicates the illuminated portion of the moon which a person observes from the earth. The revolution of moon around earth makes it appear like it is changing shapes. The phase or the shape of the moon depends upon its position in relation to the Sun and the Earth.

When moon size is increasing, it is known as waxing phase while on the opposite, when moon size gets smaller, it is known as waning phase. As we all know that moon has no light of its own. It reflects the light of the sun. As the moon orbits around the earth, the sun lights up its part which is facing the sun. To the Sun, it is always full moon. New Moon is the name of the phase when you cannot see the moon whereas Full Moon is the name given to the phase when you can see the full moon, as the name suggests.



Name Key
Teacher/HR _____

Date _____
Science

Phases of the Moon

Visit this website to see the moon as it appears today.

http://www.cstarsoas.org.nz/index.php?mod=art&id_pag=52



Fill in the table from this website:

http://www.pbslearningmedia.org/asset/ess05_int_mphase/

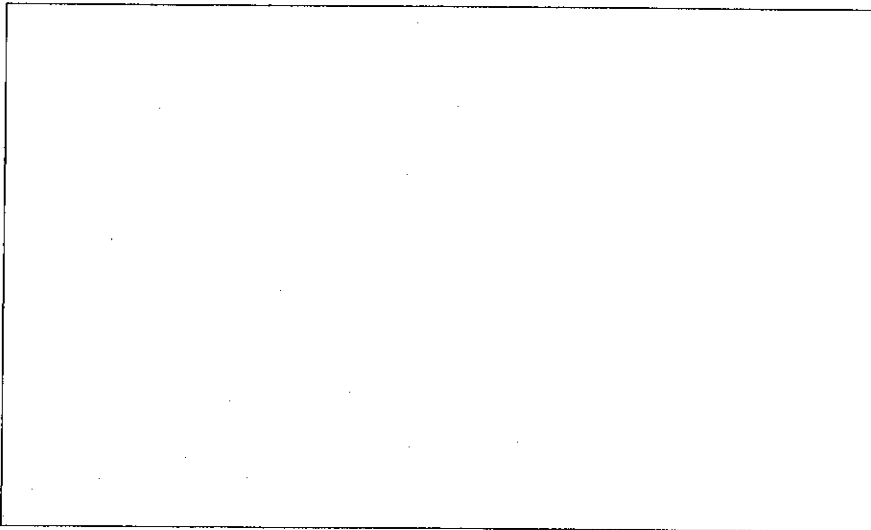
Phase	Describe each phase:
1. New Moon	None of the Moon is visible
2. Crescent Moon	Less than half of the Earth-facing hemisphere of the moon is visible
3. Quarter Moon	Exactly half of the Earth-facing hemisphere of the Moon is visible
4. Gibbous Moon	More than half of the Earth-facing hemisphere of the moon is visible
5. Full Moon	The entire near side of the moon is visible.

6. What is a Blue Moon? A Blue Moon is when two full moons occur in the same month, the second full moon is known as a Blue Moon.

Eclipses

7. We have a New and Full Moon every month, but we don't have a lunar and solar eclipse every month because the Moon's orbit is tilted 5 degrees with respect to the Earth's orbit. The New Moon and the Full Moon phases align with the Earth and Sun about every 6 months, creating the conditions necessary for an eclipse.

8. Draw an eclipse in the box below.



Try these Puzzlers:

<http://www.pbs.org/wgbh/nova/tothemoon/puzzlers.html>

When you have completed this worksheet, you can visit this website:

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

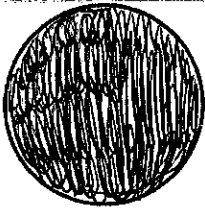
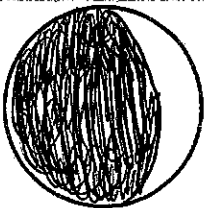
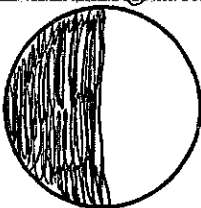
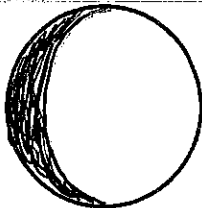
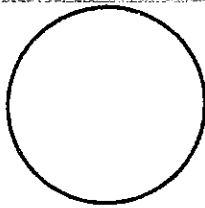
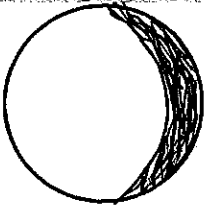
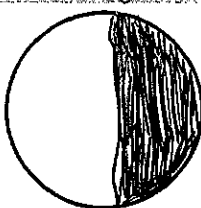
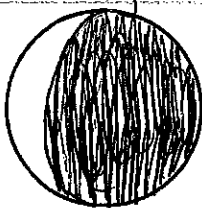
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Phases of the Moon

Define the following terms:

1. Gibbous - swollen
2. Waxing - increasing in size
3. Waning - decreasing in size

There are eight major phases of the Moon. In the top of each square, write the phase of the Moon. In the circle, draw a picture of what it looks like.

New Moon	Waxing crescent	First quarter	Waxing gibbous
			
Full Moon	Waning gibbous	Last quarter	Waning crescent
			

If you need to view the video again, visit the blog and click on the button.

Moon Phases

List the 8 Phases of the Moon:

New Moon

Waxing Crescent Moon

First-Quarter Moon

Waxing Gibbous Moon

Full Moon

Waning Gibbous Moon

Third-Quarter Moon

Waning Crescent Moon