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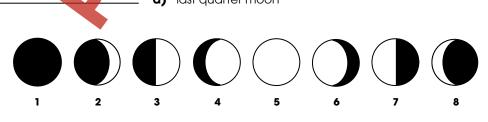
The Moon

- 1. Some people think that a full moon is bad luck. Why do you think that is? Write about the superstitions surrounding full moons in your notebook.
- 2. Use a straight line to match each term with its meaning.

lunar	A	One part of a series of steps						
phase	В	A period of time when a repeating pattern is completed once						
cycle	C	A bowl-shaped cavity or pit						
calendar	D	A table that shows the days, weeks and months of a year						
reflect	E	To throw back light, heat or sound						
crater		Relating to the Moon						

3. Write the diagram number that best fits each term below.





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NAI	ME:					Afte	r You Read	
				*	TL.	• • • • • •	• • • • • •	
				3,5	ine	Moon		**
1.					1 to 6 in the or es to help you		occur in the	lund cycle. (You
					r: The left half o	·	illuminated.	
			b)		bous : Most of t on the left side			ated except for is almost fully
			c)	Full moon : T looks perfec		of the moon fo	acing the Eart	h is illuminated. It
			d)		The side of the		rthe Earth is no	ot illuminated. We
			e)		r: The right half ill seem even lo		is illuminated.	In the next phase,
			f)	_	scent: Only a solut to "c			l illuminated on the
2 .	a)	Čro	~~ \$ \$ ∢0	of the words	that are <u>not</u> r	elated to the	e lunar cycle.	
}		wax	king	gibbou	gravity	new	crater	crescent
}	b)	Ci	rcle	the words	hat describe	conditions o	n the moon.	
}		dry		windy	hot	rocky	bumpy	fiery
}	c)			ne the words of its cycle.	that describe	what the m	oon looks like	e at different

crescent

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pie

25

octagonal

orb

star

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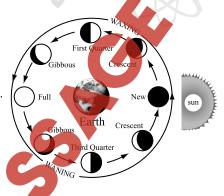


🔰 Reading Passage

NAME:

The Moon

he Earth has one moon. It is called **Luna**. There is no air, water or life on the moon. There are a lot of rocks and **craters**. Craters are big holes in the surface of the moon. They were formed when big **meteorites** crashed into the moon millions of years ago. The moon's **gravity** is not as strong as the gravity on Earth, so you could jump really high on the moon.



When you look up in the night sky, the largest thing you can see is the moon. That is because the moon is our nearest neighbor in space. It is more than 238 800 miles

from Earth. It looks like a bright, white ball, but the moon does not actually make its own light. It just **reflects** the light from the Sun. While the Earth orbits the Sun, the moon is orbiting the Earth. It takes the moon twenty-eight days to orbit around the Earth once. This is called a **lunar cycle**.



MAKE A CONNECTION: Imagine there is less gravity on Earth for one day. List THREE ways that you would make the most of this situation, and give a reason for each one.

You might have wondered why the moon seems to change shape a little bit each night, from a big, bright ball to a tiny sliver, or **crescent**. The moon doesn't actually change shape; it is always round, but sometimes only parts of it are lit up by the Sun. When the moon is round and full, the Sun is shining directly on it. When you can only see a sliver of the moon lit up, the Sun is shining on the backside of it. The moon has days and nights just like the Earth. When the moon looks mostly dark you are looking at the part that is experiencing night. Look closely and you might still be able to see the dark outline of the rest of the moon. These changes in the moon's appearance are called the **phases** of the moon. The phases are: new moon, half moon (waxing), gibbous moon (waxing), full moon, gibbous moon (waning), half moon (waning), old moon. **Waxing** means growing and **waning** means shrinking. **Gibbous** means swollen on one side. A **lunar calendar** tells people what phase the moon is in every day.

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After You Read

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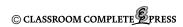
The Moon

Answer each question with a complete sentence.

swer each question with a complete sentence.
Why is it that astronauts have less weight on the moon than they have on Earth?
Describe the positions of the Earth , Sun and Moon when the moon is full.
Why is the moon so bright on a clear, cloudless night?

Research & Extensions

- **6.** We say that there is a **new moon** when the moon is between the Earth and the Sun. When this happens, we cannot see the lit side of the Moon, so the moon is dark in the night sky. Another time the moon is dark is when there is a **lunar eclipse**.
 - a) Research eclipses, and create a model or diagram to show the difference between lunar and solar eclipses.
 - b) In China, people believed that when there was a lunar eclipse a Dragon had swallowed the Moon. Research this legend, and recount it either as a comic strip, short story or poem.
 - c) Have you ever heard the expression, "Once in a Blue Moon"? Research **Blue**Moons to see if they actually exist. If they do, explain what they are.
 - **d)** Design a model that will effectively teach the phases of the lunar cycle and lunar eclipses.





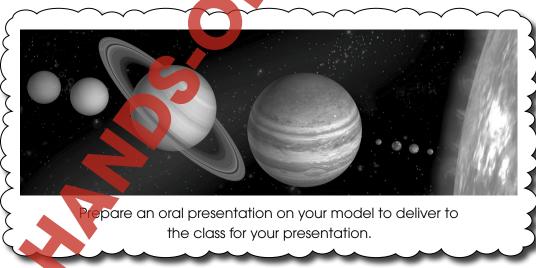


Build It!

SOLAR SYSTEM MODEL

Create a model of the solar system that shows all of the planets in relation to the Sun, according to their size and position. There are a few ways that you can do this.

- 1) Create a diorama Paint the inside of a shoebox black and stand it on its side. Make planets using plasticine and hang them with thread from the top of the box.
- 2) Create a mobile Use a cardboard circle as a pase for your mobile. Paint Styrofoam balls to represent the planets, and then hang them through cut-out circles in the base.
- 3) Create a model Use straws or skewers to connect painted Styrofoam balls at appropriate distances from each other.
- 4) Your own idea



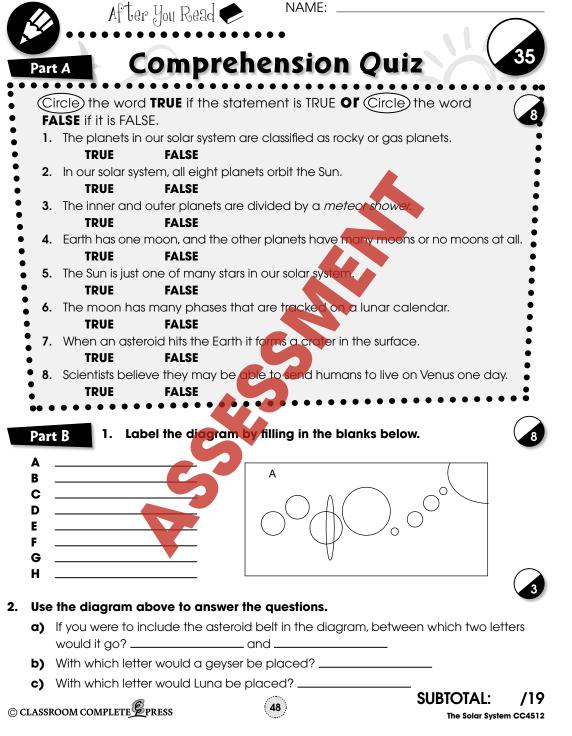




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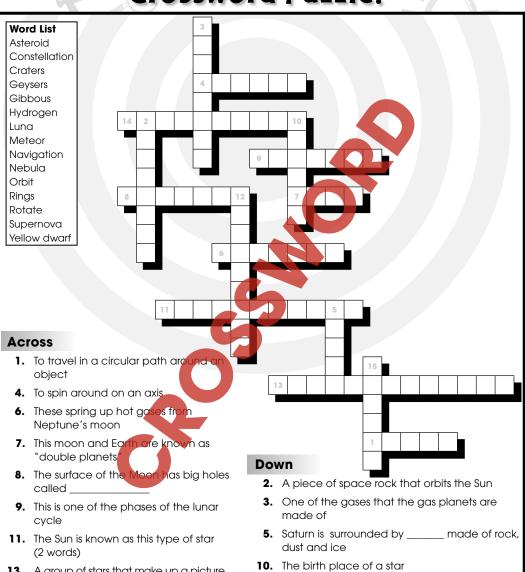






Crossword Puzzle!

NAME:



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13. A group of stars that make up a picture

14. Stars can be used to help humans



12. A star explosion

15. This is also known as a shooting star

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Our Planets







After You Read

NAME:

The Outer Planets

Answer each	question	with a	complete	sentence.
--------------------	----------	--------	----------	-----------

2.	\Mhat	COLISES	Uranus to	rotate	on its	side?
۷.	vviidi	Canses	Ularius ic	TOIGIE	OHID) SIUE (

3.	What do	scientists	believe	is the	cause of the	red spot	on Jupiter?

4. Hov	v do	scientists	think the	rings	around	Saturn	were for	ormed?
---------------	------	------------	-----------	-------	--------	--------	----------	--------

Research & Extensions

- 5. The gas giants are so different than Pluto that it's not surprising people have asked if Pluto should even be considered a planet at all. There was great debate from scientists around the world before it finally lost its planetary status in 2006. Create a T-chart in your notebook to outline the case for Pluto to lose its planetary status. On the other side of the chart, outline the case for Pluto to remain as a planet. You may need to research some points. When you are done, pretend you are a lawyer who is arguing for or against Pluto. Write an argument that you would deliver to a judge in court to state your case.
- 6. Create a comic book hero based on each of the four gas planets, and their small friend, Pluto. Include as much detail as you can about each planet in their superhero persona. (For example, Nasty Neptune may be able to ward off her opponents with her steamy geysers.) Illustrate each superhero, and give a description of their powers written below.
- 7. Research the New Horizons mission to see it's path. Create a timeline of it's travels.



WEB CONNECTION

To learn more about the New Horizons mission to the end of the solar system, visit the NASA Missions web page at: www.nasa.gov/mission_pages/ newhorizons/main/index.html





The Solar System CC4512

The gravitational pull of other planets

A very large storm that has been blowing for hundreds of years

Gravity pulled in objects that came too close to the planet and they got stuck in orbit around it



Answers will vary

cycle - B

calendar - D

crater - C

Answers will varv

7. Accept any answers

that can be verified



c) 3

d) 7 23

Answers will vary

a) 5

Answers will vary

2.

lunar - F

phase - A

reflect - E

b) 3

c) 4

d) 1

e) 2

f) 6

2.

b) Circle: bumpy, dry,

rocky

c) Underline: sliver, crescent, orb

The force of gravity is weaker on the Moon.

The Earth is between the Sun and the Moon.

It reflects the light from the Sun better because there are no clouds in the way.

6.

a) Answers will vary



c) Answers will vary based on resource used

d) Answers will vary

