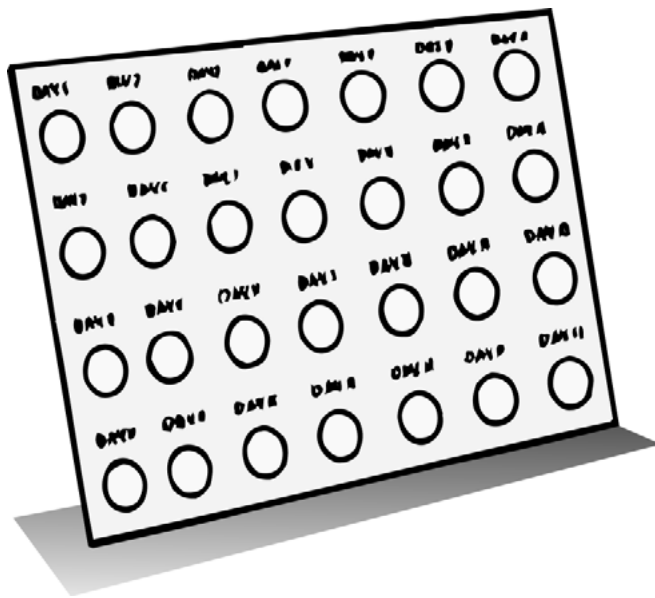


Project Moon Watch

WHAT YOU NEED

moon calendar



Find Out

Do this activity to see how the moon's appearance changes during a 30-day period.

Process Skills

- Observing
- Communicating
- Inferring

Time

- 30 minutes for opening discussion
- 5 minutes of observation and drawing for 30 days
- 20 minutes of discussion time on the last day

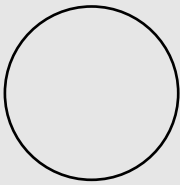
WHAT TO DO



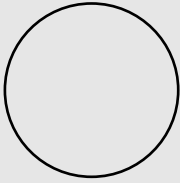
1. **Observe** the moon for 30 days. On your moon calendar, **color** any part of the moon that you cannot see.
2. At the end of 30 days, bring your moon calendar back to class. Compare your moons with others.
3. If there were clouds, complete the moons you left blank by **inferring** what each moon would look like if you had been able to see it.



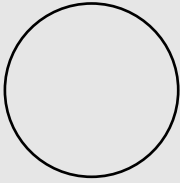
Color in the part of the moon that you cannot see.



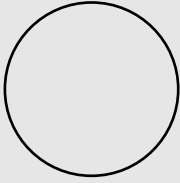
Day 1



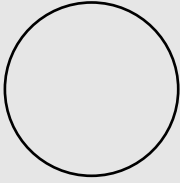
Day 2



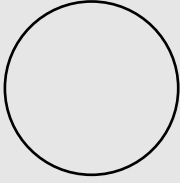
Day 3



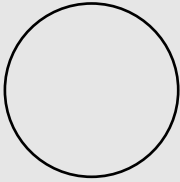
Day 4



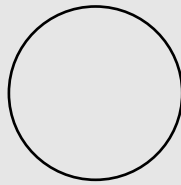
Day 5



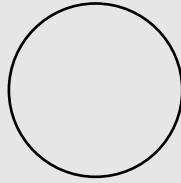
Day 6



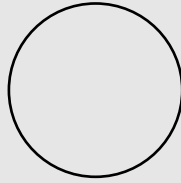
Day 7



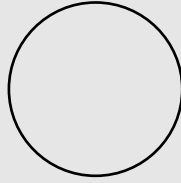
Day 8



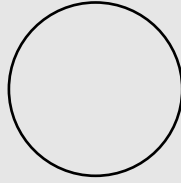
Day 9



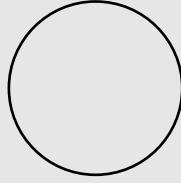
Day 10



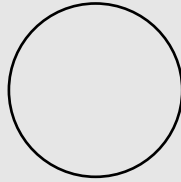
Day 11



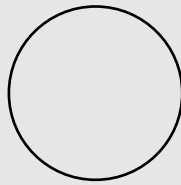
Day 12



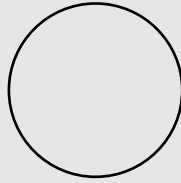
Day 13



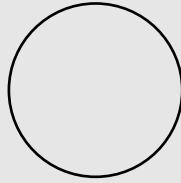
Day 14



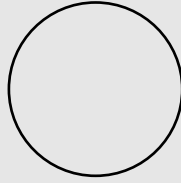
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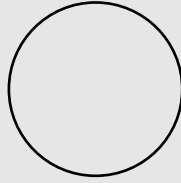
Day 16



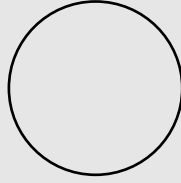
Day 17



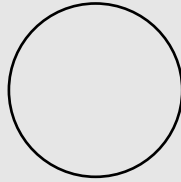
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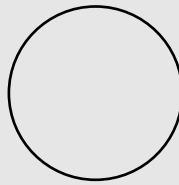
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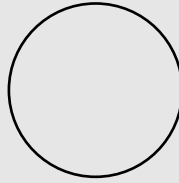
Day 20



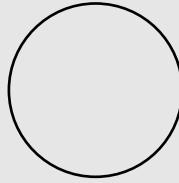
Day 21



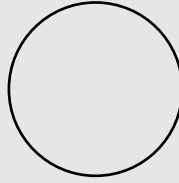
Day 22



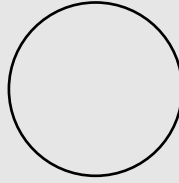
Day 23



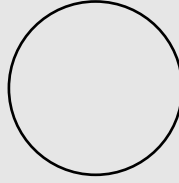
Day 24



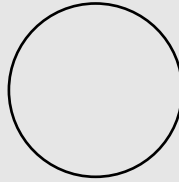
Day 25



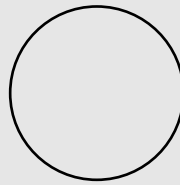
Day 26



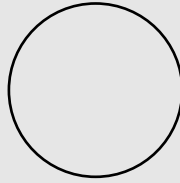
Day 27



Day 28



Day 29



Day 30

Conclusions

1. Did everyone's drawings show the moon in the same phases?

2. Did the moon phases change in a regular pattern? Explain.

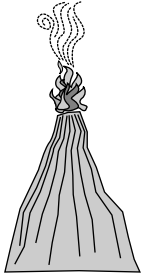
New Questions

1. Was your neighborhood a good place to see the phases of the moon?

2. Write a new question you have about moon phases.



Name _____



ACTIVITY

Modeling Day and Night

Predict what will happen when you spin the ball.

Record what happens when you spin the ball.

Name _____

What Happened

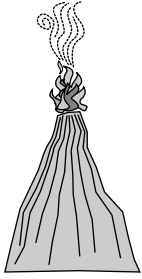
- ① What object in space is like the ball?
What object in space is like the flashlight?

- ② What happens when the dot faces away
from the flashlight?

What If

What would happen if you did not
spin the ball?

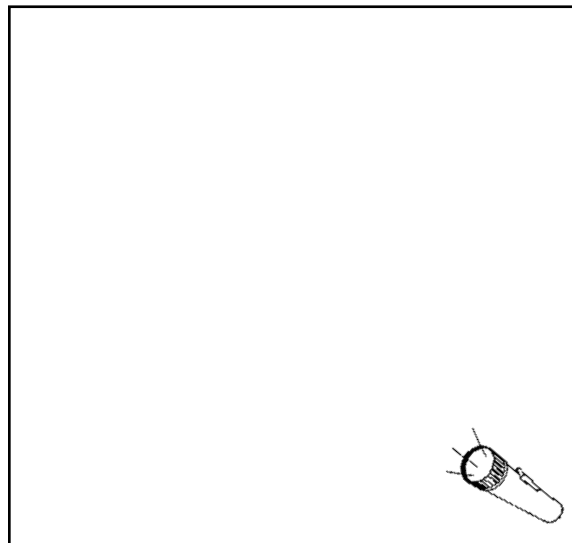
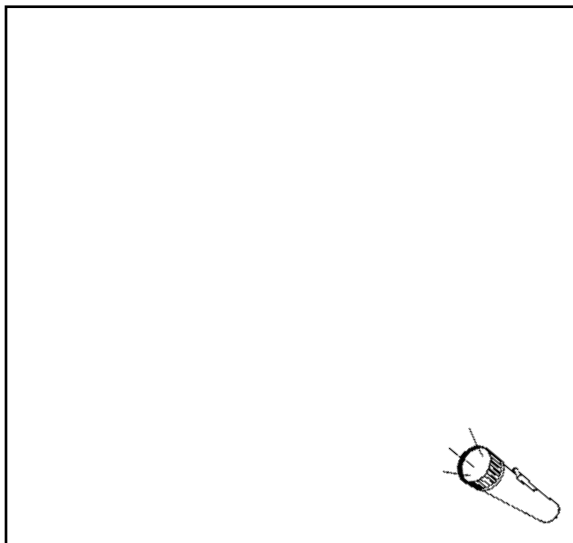
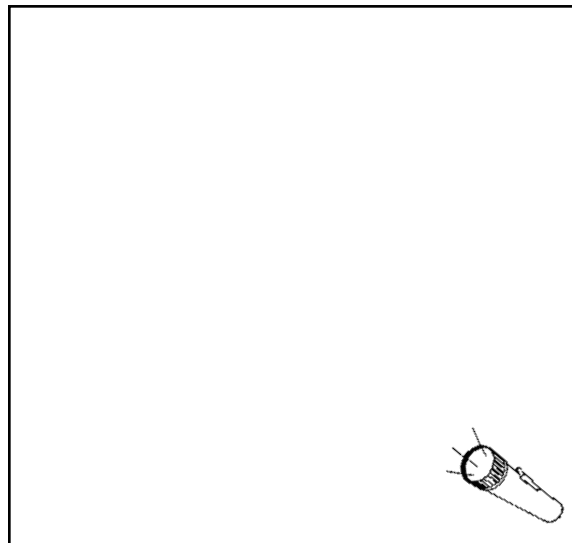
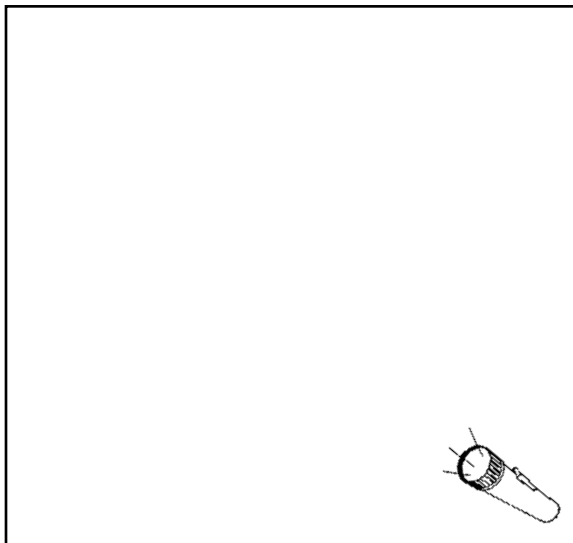
Name _____



ACTIVITY

Modeling the Moon

Draw how the ball changed when you turned.



Name _____

What Happened

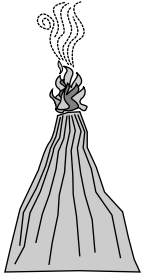
① What object in space is like the ball? What object in space is like the flashlight?

② What happens to the ball when you are facing toward the flashlight? What happens when you are facing away from the flashlight?

What If

What would happen if you got between the light and the ball?

Name _____

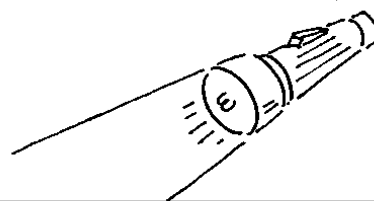
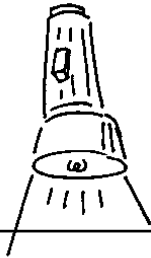


ACTIVITY

Shining Sunlight

Count the number of squares in the lighted area.

Write your answers in the boxes.



Flashlight Straight	Flashlight Tilted

Name _____

What Happened

① Imagine the flashlight is the sun and the light on the paper is sunlight as it hits Earth.

Which try is like the sun and Earth in winter?

Which try is like summer?

② Why did the outlines change?

What If

What would happen if the flashlight were always held straight down?
