

A night sky with a dark blue background. A white arc represents the moon's path across the sky. Along this arc, four different phases of the moon are shown: a full moon at the bottom left, a waxing gibbous moon in the middle left, a waxing crescent moon in the middle right, and a half moon at the top right. Several small white stars are scattered across the sky. At the bottom, the dark silhouettes of trees and buildings are visible against a lighter, hazy horizon.

Patterns in the Sky



HOUGHTON MIFFLIN HARCOURT

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pattern

A pattern happens again and again.
You may learn about patterns in math.
There are other patterns, too.

fall



**September, October,
November**

winter



**December, January,
February**

There are twelve months.

There are four seasons.

Months and seasons follow a pattern.

low morning sun



high noon sun



We see patterns in the sky every day.
The sun rises in the east.
The sun seems to move across the sky.

low afternoon sun



the sun sets



At noon the sun is high in the sky.
After school, the sun is lower.
Later, the sun sets in the west.



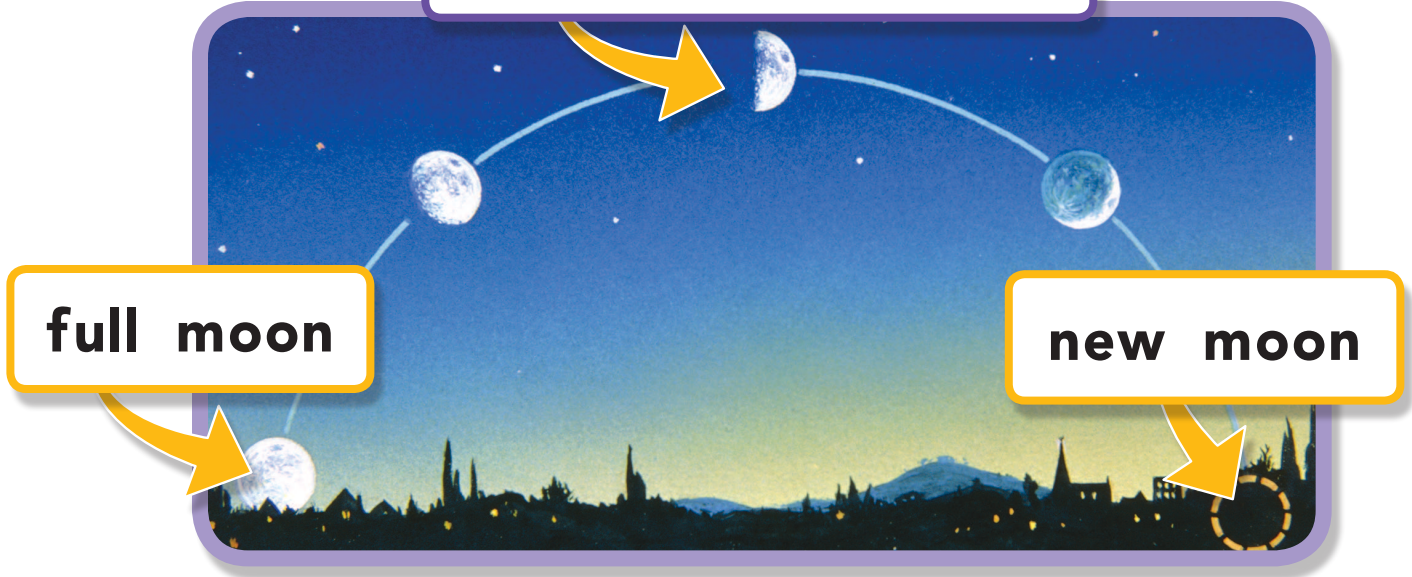
low

high



Every night the moon seems to rise.
It appears to move across the sky.

first quarter moon



full moon

new moon

During one month, the moon looks like it changes shape.

The changes always follow the same pattern.

Responding

Identify Patterns

Sit down with picture cards that show different positions of the sun in the sky. Put the cards in order to show the pattern of the sun during a day. Then write sentences that describe what you might be doing at each time of day.

Write About Patterns

Do simple research to learn what phase the moon is in today. Then work with a partner to plot the moon phases on a calendar for the rest of the month. Write sentences to explain the pattern of the moon.

Vocabulary

east	sky
moon	sun
pattern	west



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