

Why Star Patterns Change Throughout the Year



Earth's Motion Affects What We See in the Sky

Earth's Motion

Resulting Sky Patterns

Rotation (Daily)

Revolution (Yearly)

Some constellations:

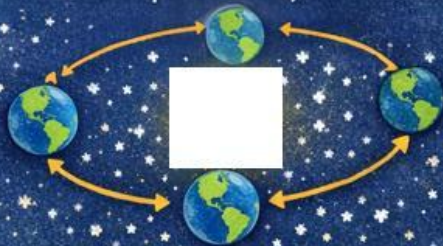
• Visible only in

Key Observations

GENERALIZATION:

_____ to change throughout the year not because stars move, but because the _____.

— and faces different parts of the sky in different seasons. —



Change position during the night

Seasonal Constellations

• Constellation shapes stay the same

Stars appear to move east to west

Summer

Autumn

Winter

Spring

• Visibility changes with seasons

• Hidden by the Sun's light

• certain months

• Stars on Night Side are Visible

• Stars Near the Sun Cannot Be Seen

• Earth's Changing Position in Space

Earth revolves around the Sun

Constellations appear

