



SCIENCE

CHAPTER 10-SOLAR SYSTEM AND BEYOND

LESSON 1-EARTH AND SUN

PART 2

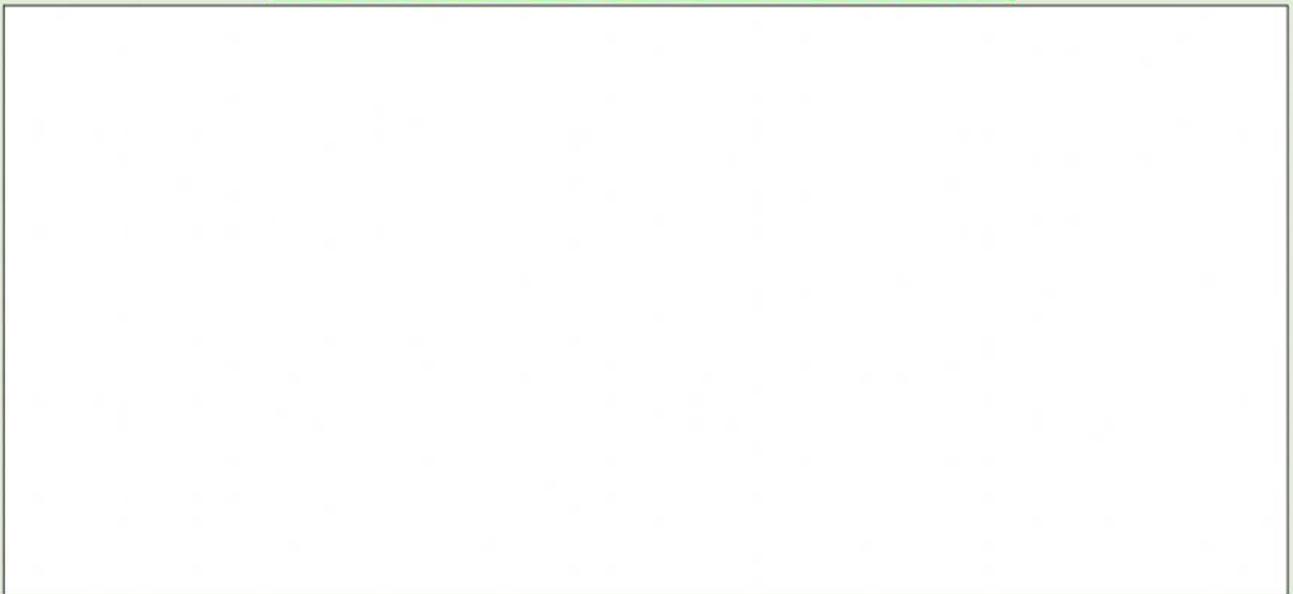


Created by- Nisha Tanwar

WHAT CAUSES SEASONS

- Earth's tilt causes sunlight to hit earth at different angles.
- The earth's tilt and its revolution around the sun causes seasons.
- A revolution takes $365 \frac{1}{4}$ days or one year.
- Earth tilts at 23.5 degrees.

Watch this video about earth revolution



CLICK HERE TO
OPEN EARTH
REVOLUTION LAB



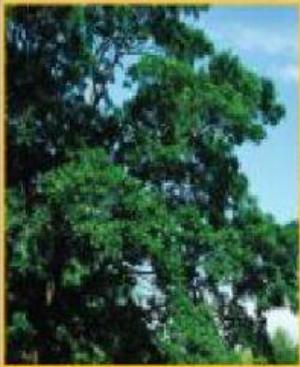
Earth's Revolution



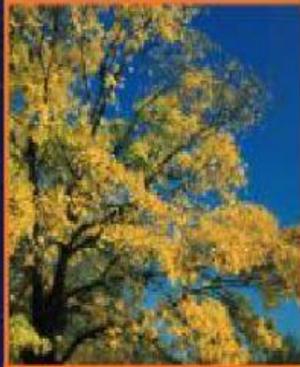
THE FOUR SEASONS

- ❖ In **JUNE**, the North Pole tilts toward the Sun. Sunlight hits the Northern Hemisphere at steep angles. The light is more intense. It is summer.
- ❖ In **DECEMBER**, the North Pole tilts away from the Sun. Sunlight strikes the Northern Hemisphere at

low angles. It is winter in the northern part of the world.



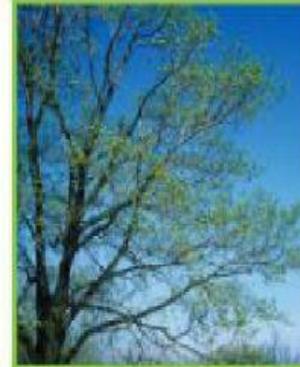
summer
June 21–Sept. 22



autumn
Sept. 22–Dec. 21



winter
Dec. 21–March 20



spring
March 20–June 21

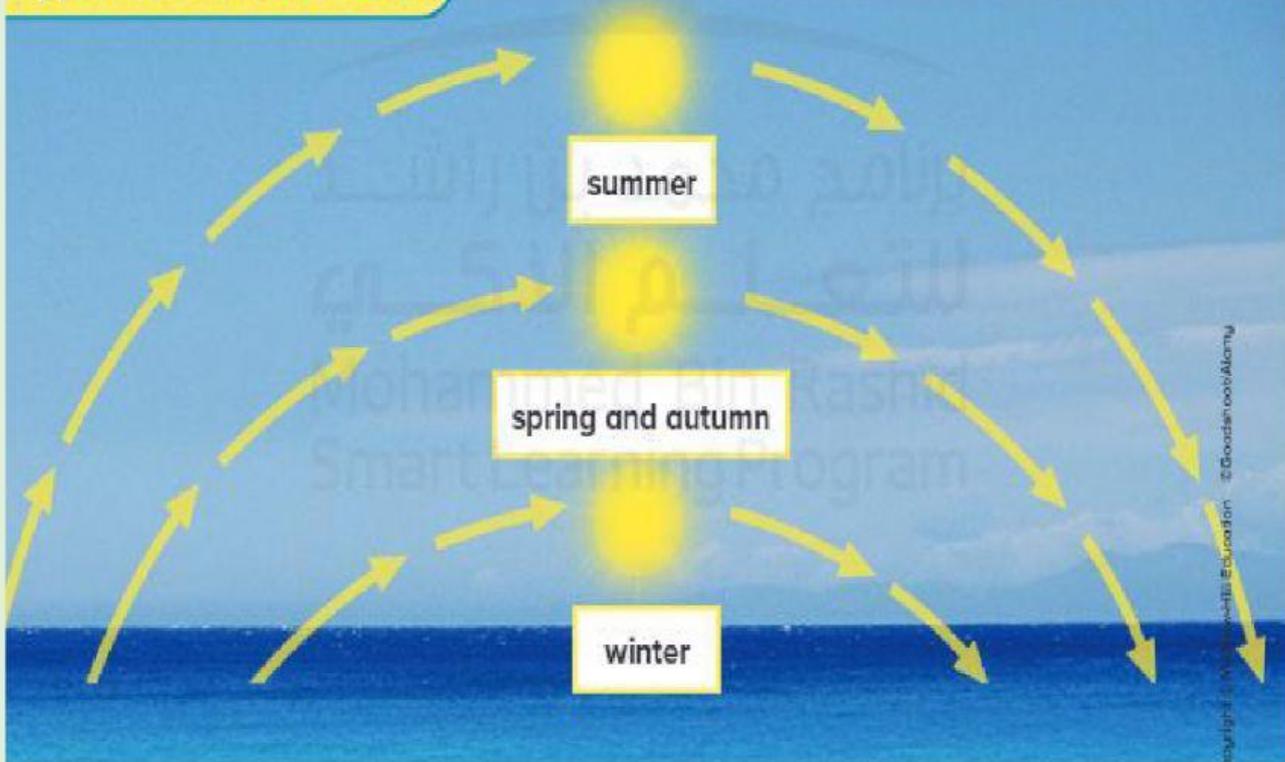
Watch this video about changing seasons



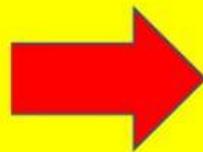
HOW DOES THE SUN'S APPARENT PATH CHANGE OVER THE SEASONS?

- In summer the Sun rises much higher in the sky.
- In winter, it is much lower.

Apparent Path of the Sun



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QUESTIONS FROM BOOK

Your shadow is short when you go outside. What time of day is it?

- A** early morning
- B** late afternoon
- C** after sunset
- D** near noon

We see the Sun rise and set because

- A.** Earth revolves around the Sun.
- B.** Earth rotates on its axis.
- C.** the Sun revolves around Earth.
- D.** the Moon revolves around Earth.

What causes Earth's changing seasons?

- A** Earth's rotation around the Sun
- B** the Sun's rotation around Earth
- C** Earth's tilted axis and revolution around the Sun
- D** Earth's rotation and the Moon's revolution around Earth

Test Prep When does the Sun rise highest in the sky in the Northern Hemisphere?

- A March
- B June
- C September
- D December

PRACTICE QUESTIONS:

Rotation



Definition:

It takes

It causes

Revolution



Definition:

It takes

It causes

Drag and drop the words and pictures to the correct place.



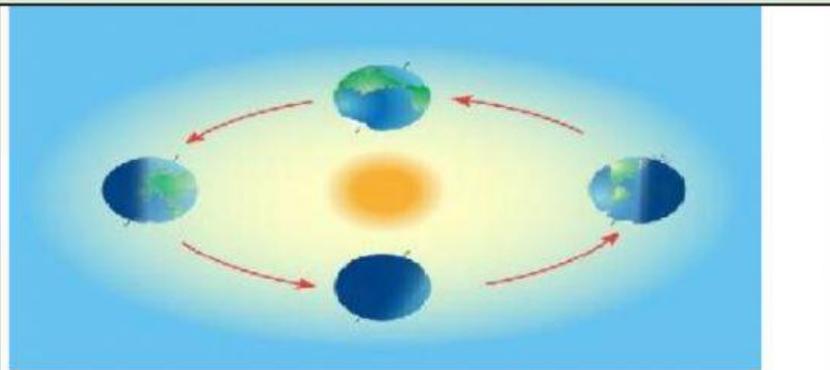
Movement on Earth's axis

The Earth moves along a path around the sun.

365 / 1
DAYS / YEAR

24 / 1
HOURS / DAY

FILL THE BLANKS IN THIS DIAGRAM



: The Earth orbits the Sun.
It takes
It produces

Earth's Revolution

