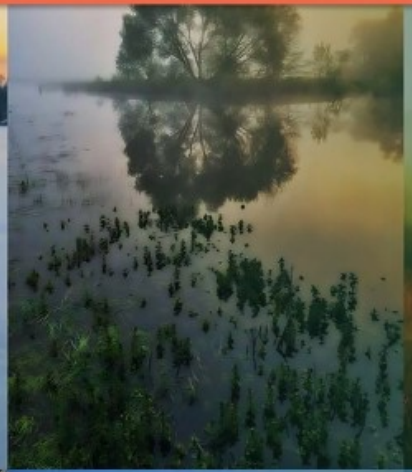

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CLASS – 7
SOCIAL SCIENCE
Exploring Society : India and Beyond
CH –3 : Climates of India
Part – 1
Weather, Seasons & the Climate
Sukhdeep Kaur

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OVERVIEW

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1. Weather, Seasons and the Climate
2. Types of Climates in India
3. Factors Determining the Climate
4. The Monsoons
5. Climate and our Lives
6. Climates and Disasters
7. Climate Change

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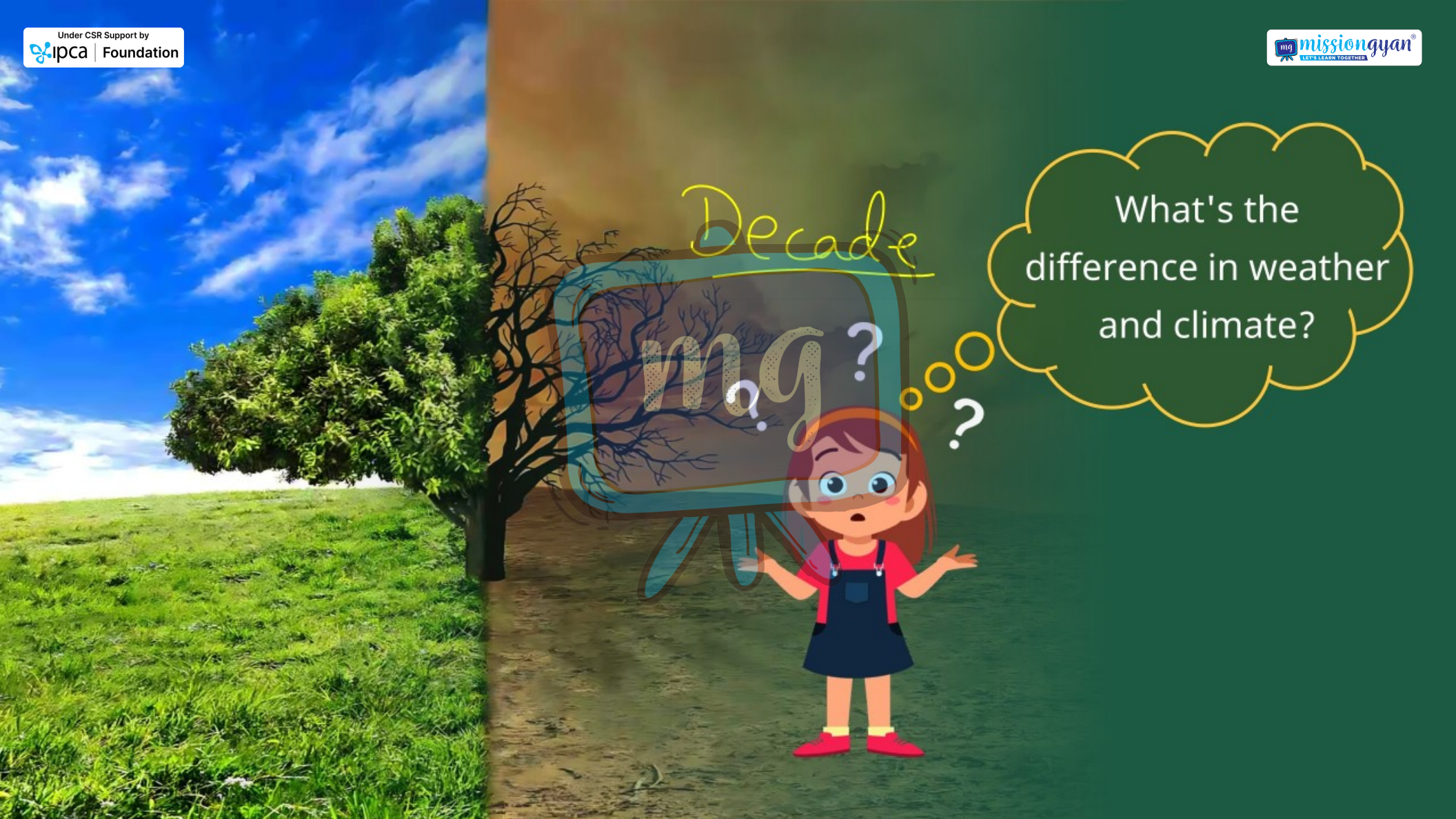
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WEATHER, SEASONS & THE CLIMATE



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Weather

- The condition of the atmosphere over short periods (hours or days).
- **Examples :** rain, sunshine, wind.
- It changes frequently.

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Climate

- The long-term pattern of weather in a region.
- Observed over several decades.
- Varies from one region to another.
- People often confuse weather with climate in everyday conversation.

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Seasons

- Occur due to the Earth's revolution around the Sun.
- Each season:
  - Lasts a few months.
  - appens in a yearly cycle.

Rotation

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- Common seasons

spring

summer

monsoon





autumn

winter

- Seasons are related to both weather and climate.

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WEATHER CHANGES WITH SEASONS

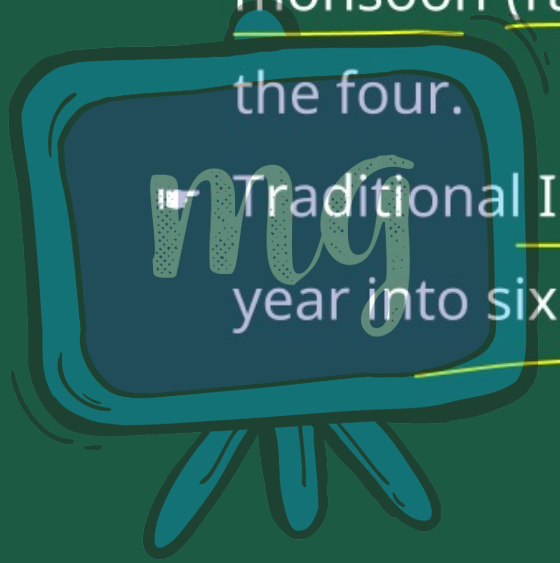


- Summer : dry and hot.
- Monsoon : humid and rainy.
- Seasonal pattern is linked to the region's climate.
- Four main global seasons : spring, summer, autumn, winter.

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- India has an additional season : monsoon (rainy season), along with the four.
- Traditional Indian calendar divides the year into six seasons (ritus).



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Six Seasons (Ritus)


Vasanta - Spring


Grīṣhma - Summer


Varsha Rainy Season

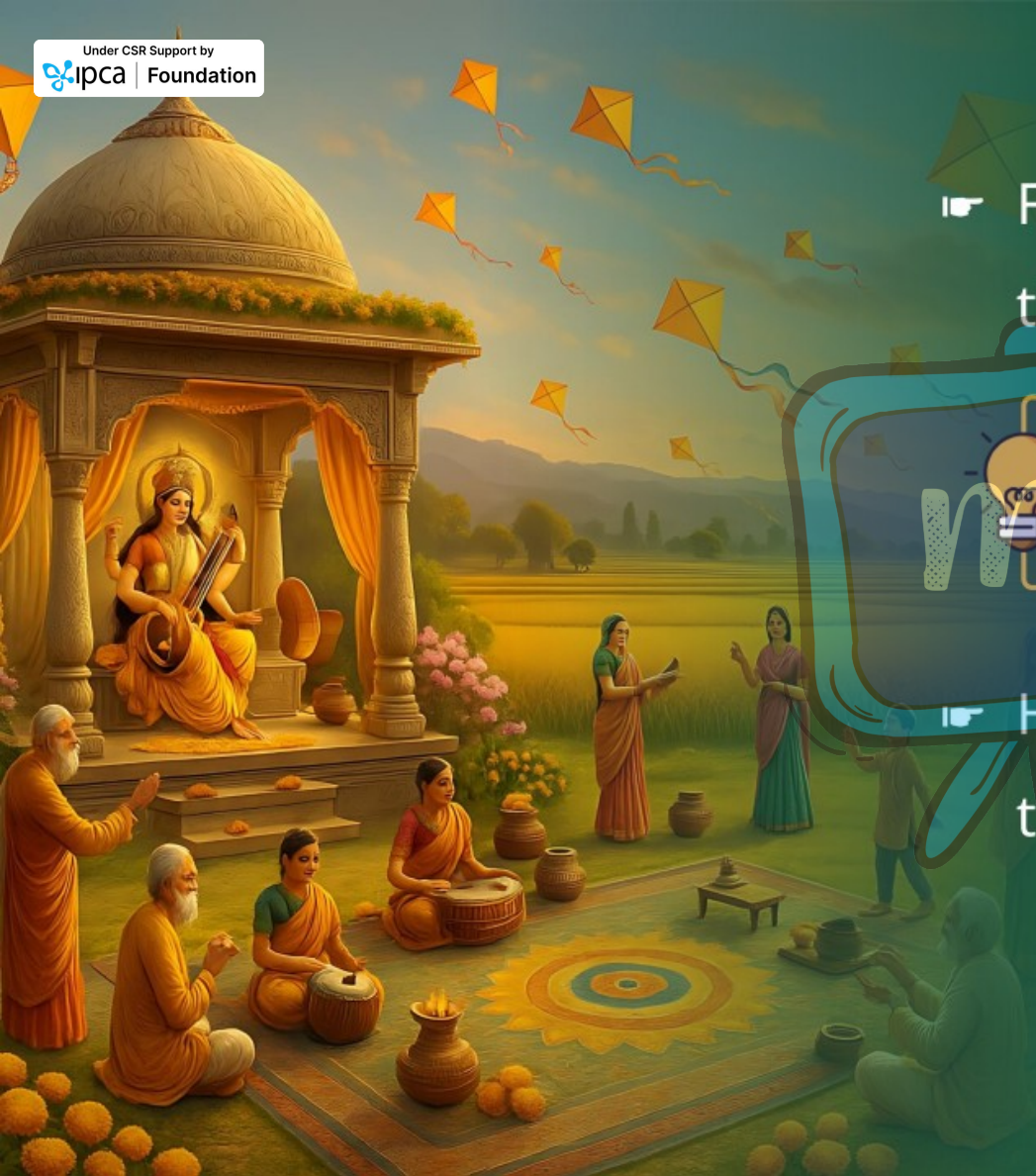

Sharad - Autumn


Hemanta Pre-winter


Shishir - Winter

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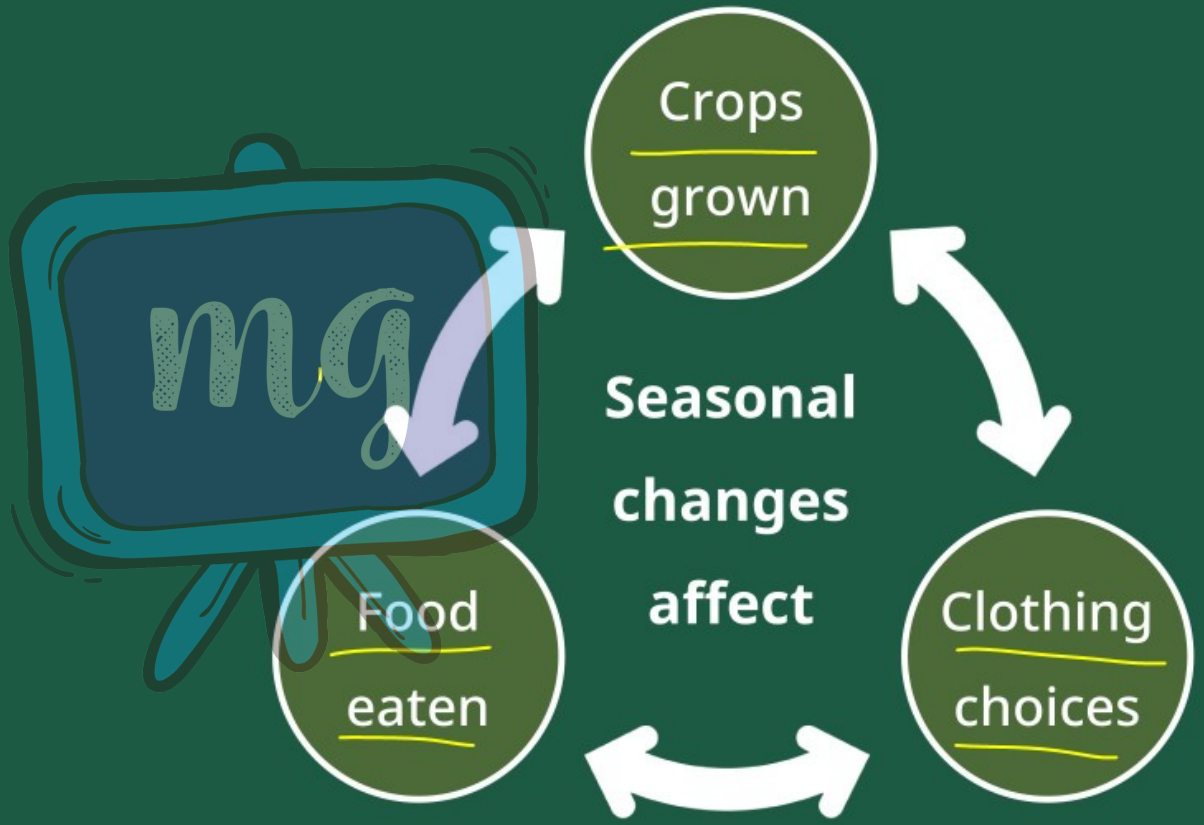
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- Festivals and rituals are linked to these seasons, e.g.:
  - Vasanta Pañchamī
  - Śharad Pūrṇimā
- Human, plant, and animal life follow the rhythm of the ritus (seasons).

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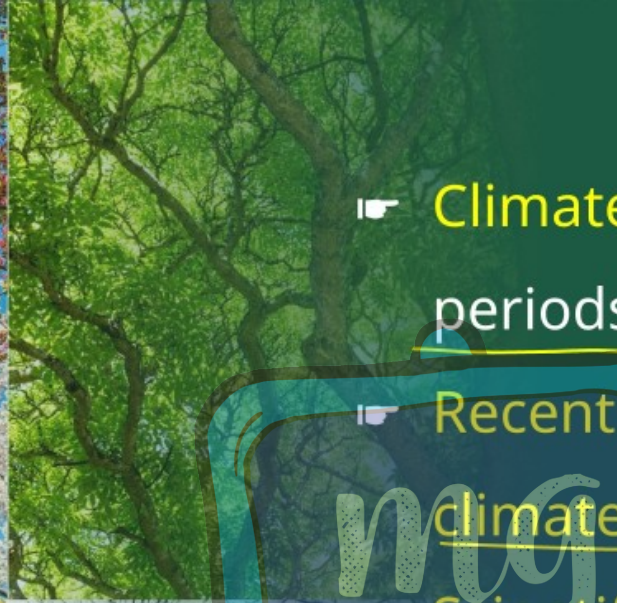


☛ Examples

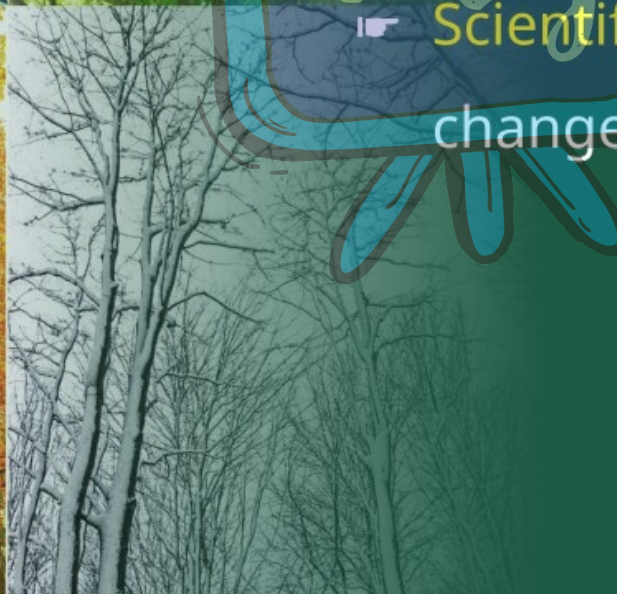
- ✧ Trees bloom in vasanta (spring).
- ✧ Trees shed leaves/change color in sharad (autumn).
- ✧ Animals grow thick fur in winter for warmth.

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- Climate is generally stable over long periods.
- Recent decades show noticeable climate changes.
- Scientific studies link many of these changes to human activities.

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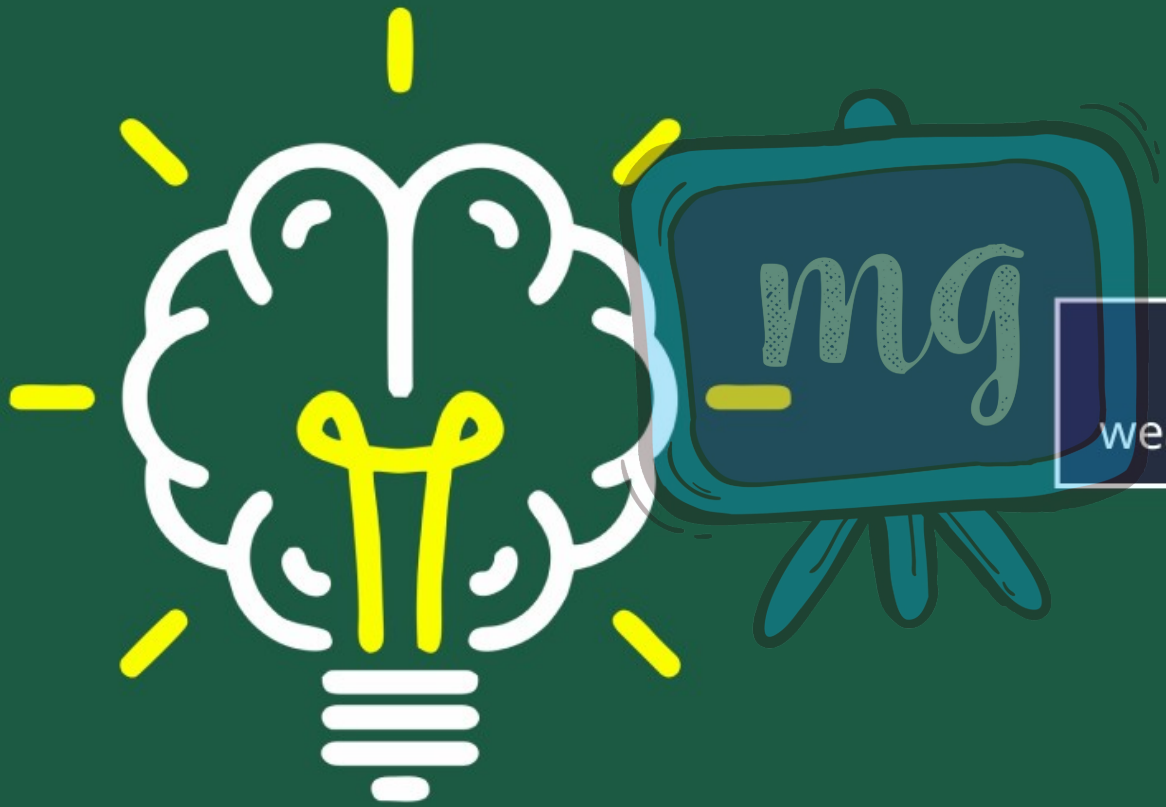
LET US RECAPITULATE

- **Weather :** Daily conditions like wind, rain, heat, dryness.
- **Seasons :** Repeat yearly; each season has different weather.
- **Climate :** Long-term weather pattern of a region.

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LEARNING OUTCOMES

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Main characteristics of weather, season and climate.

ASSESSMENT



1 What is the main cause of the seasons on Earth?

A Earth's rotation on its axis

B Earth's revolution around the Sun

C Movement of clouds

D Changes in ocean currents



2 What type of change is climate change usually considered?

A Short-term

B Temporary

C Long-term

D Unimportant



3 In India, the _____ season brings rainfall.

