Seasons Changes In Northern Hemisphere

BY MANOVA JOHNSON . A

Understanding the concepts of seasons

Effect on Changing Seasons:

less direct sunlight, resulting in colder temperatures tilted away from the sun, it experiences winter with direct, leading to warmer temperatures and longer experiences summer because the sunlight is more daylight hours. Conversely, when a hemisphere is When a hemisphere is tilted towards the sun, it and shorter days.

Equinoxes and Solstices:*

length. Solstices (around June 21st and December 21st) mark the moments when day and night are approximately equal in Equinoxes (around March 20th and September 23rd) mark the longest and shortest days of the year, respectively.

Influence on Climate and Weather:*

changes and weather patterns. This axial tilt leads to the The changing angles of sunlight influence temperature diversity of seasons we experience in the Northern Hemisphere.



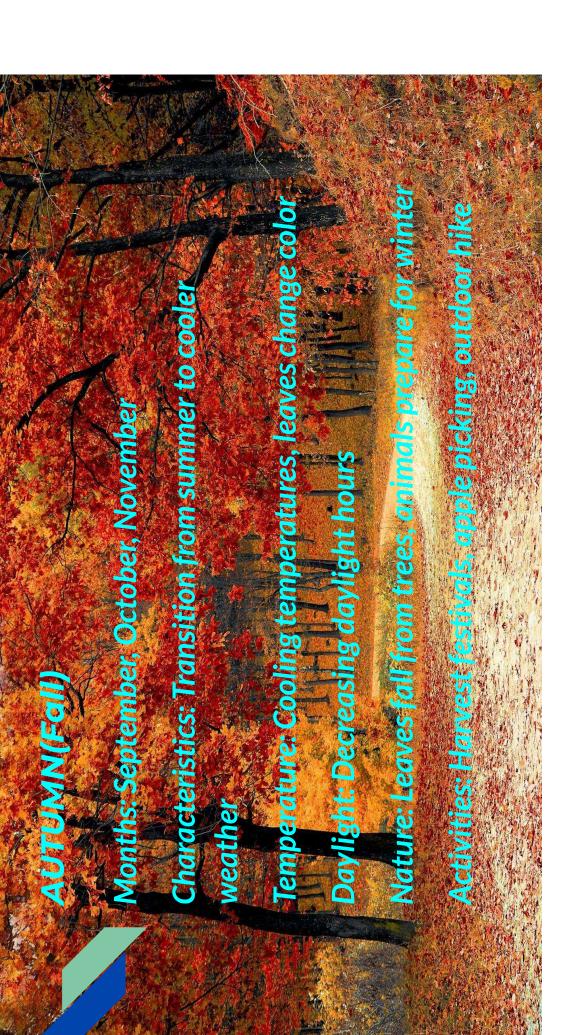
SUMMER

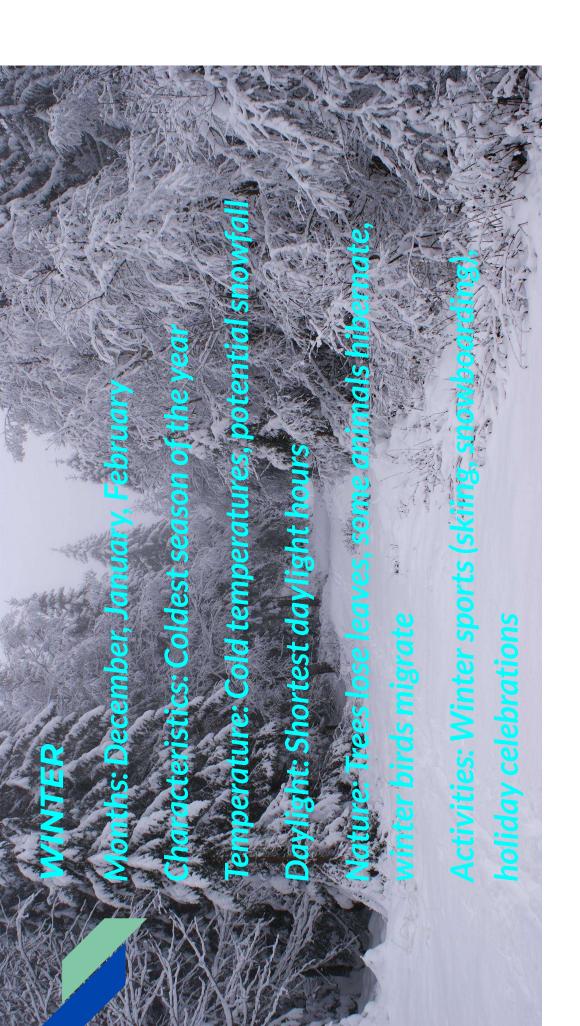
Moking School Angust

Jayllyht: Longest daylight hours

activity

restind is





IMPACT ON NATURE

Adaptations of Animals:

Migration: Birds travel long distances for better conditions.

Hibernation: Some mammals conserve energy

during winter.

Breeding Cycles: Spring triggers mating and reproduction. Blossoming: Spring brings vibrant blooms and pollination.

Dormancy: Trees shed leaves in autumn to conserve energy.

Fruiting: Plants bear fruit in summer for reproduction.

Ecosystem Dynamics:

Food Chains: Seasons affect prey-predator interactions.

Survival Strategies: Camouflage and behaviors adapt.

Population Changes: Seasons influence species numbers.

Cultural Significance:

Festivals: Harvest and renewal celebrations. Seasons symbolize life cycles.

CULTURAL AND FESTIVE SIGNIFICANCE

Blossoming: Spring brings vibrant blooms and pollination.

Dormancy: Trees shed leaves in autumn to conserve energy.

Fruiting: Plants bear fruit in summer for reproduction.

Ecosystem Dynamics:

Food Chains: Seasons affect prey-predator interactions.

Survival Strategies: Camouflage and behaviors adapt.

Population Changes: Seasons influence species numbers.

Cultural Significance:

Festivals: Harvest and renewal celebrations.

Traditions: Spring signifies transformation.

Mythology: Seasons symbolize life cycles.

Research and Conservation:

FACTORS INFLUENCING SEASONS

Axial Tilt:*

- Earth tilts about 23.5 degrees on its axis.
- Causes varying sunlight angles throughout the year.

Orbital Distance:*

- Earth's elliptical orbit affects the intensity of seasons.
- Closer to the sun (perihelion) in winter, farther (aphelion) in summer.

- *Equinoxes and Solstices:*
- Equinoxes (spring and autumn): Equal day and night.
- Solstices (summer and winter): Longest and shortest days.
- *Global Impact:*
- Seasonal changes influence climate, weather, and ecosystems.
- Earth's axial tilt creates the beauty of diverse seasons.

CONCLUSION

- *Diversity in Nature:*
- Seasons bring a stunning variety of landscapes and life cycles.
- Each season has its own unique charm and significance.
- *Influence on Culture:*
- Seasons shape festivals, traditions, and culinary delights.
- Cultural practices reflect the rhythms of nature.

Scientific Marvel:*

- Earth's axial tilt and orbit create this intricate dance.
- Understanding seasonal changes deepens our appreciation.
- *Continuous Cycle:*
- Seasons remind us of the Earth's dynamic nature.
- Embrace the ebb and flow of life through the changing

REFERENCES

- *Books:*
- "The Four Seasons: A Guide to Nature's Best"
- "Braiding Sweetgrass"
- *Websites:*
- National Geographic: www.nationalgeographic.com
- The Old Farmer's Almanac: www.almanac.com

Journals:*

- "Nature" www.nature.com
- "Climate Dynamics" www.springer.com/journal/382

JOX YNYHL