

# **WELCOME TO THE ONLINE CLASS**

**SESSION NO: 7**

**CLASS: 4**

**SUBJECT: SCIENCE**

**CHAPTER NUMBER: 11**

**CHAPTER NAME: EARTH AND ITS NEIGHBOURS**

**SUB TOPIC: MOVEMENT OF THE EARTH: REVOLUTION**

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**CHANGING YOUR TOMORROW**

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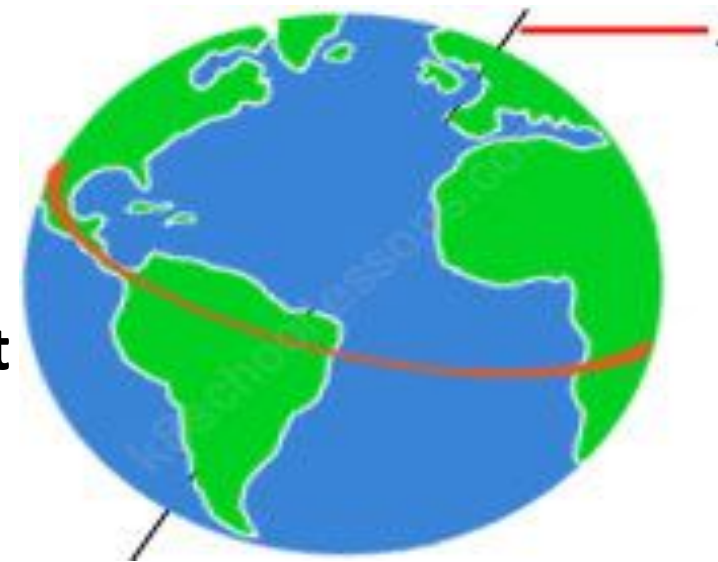
# LEARNING OBJECTIVE

**Learner will able to**

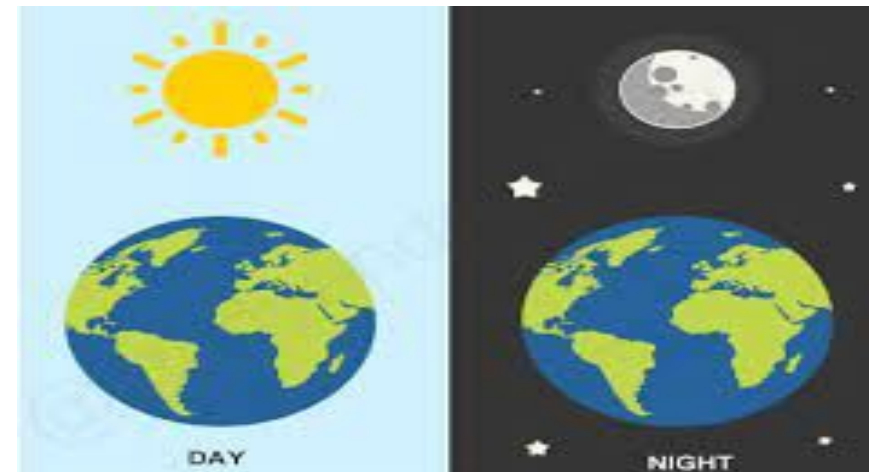
- **Know about the movement of our planet earth**
- **Define the term revolution as it relates to the earth's movement**
- **Understand about the causes of seasons**

# RECAPITULATION

1. An imaginary line that runs through the centre of the earth.
2. When the Earth spins or rotates, the part of the earth facing the sun has light, which causes \_\_\_\_\_.
3. An \_\_\_\_\_ is an imaginary line around the middle of a planet.
4. The \_\_\_\_\_ of the Earth on its axis causes day and night.

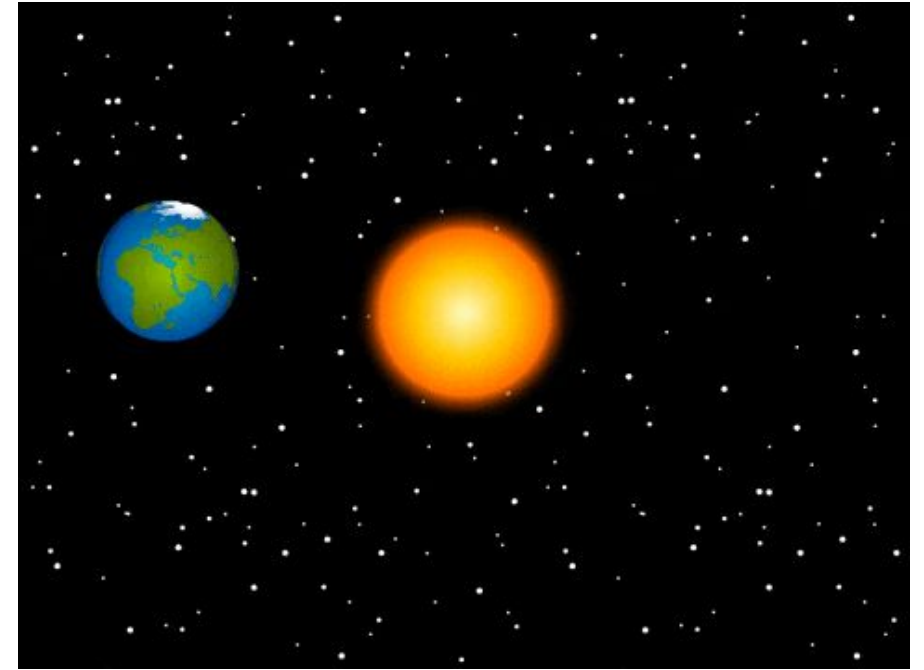
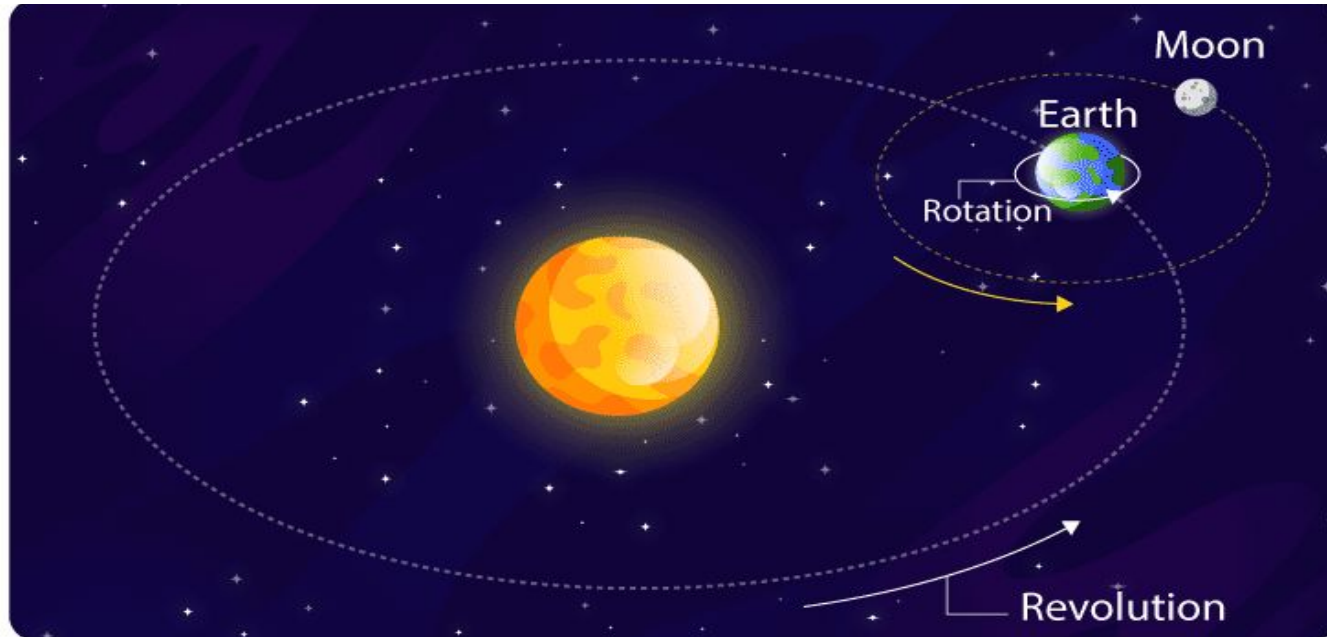


AXIS



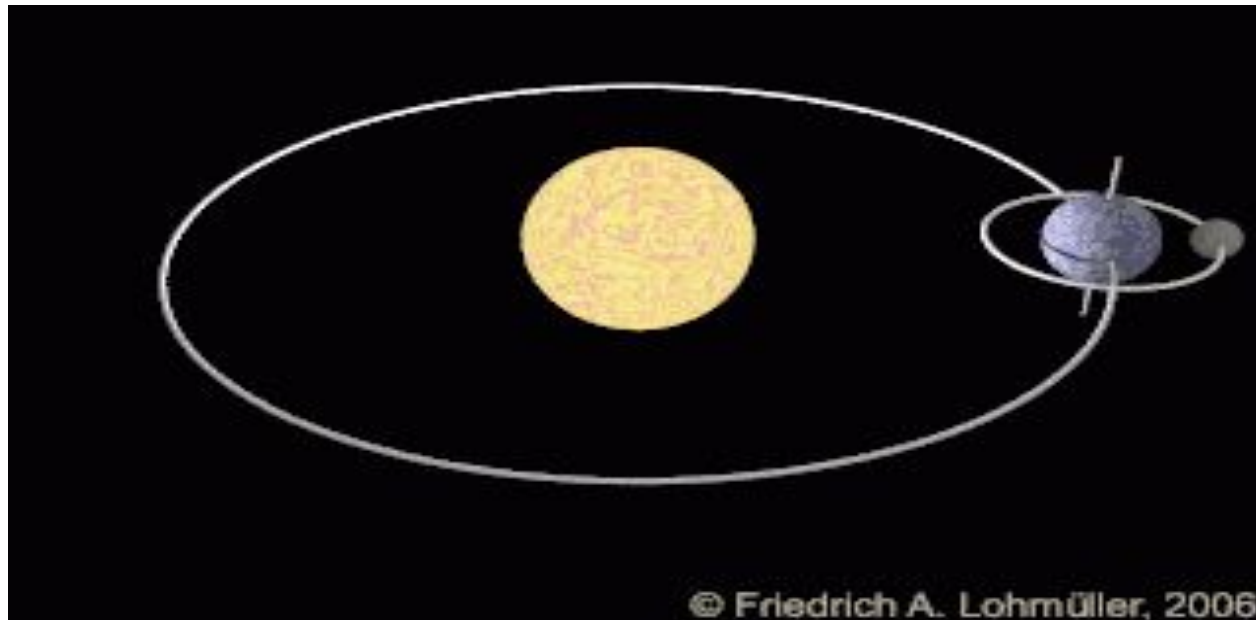
## MOVEMENT OF THE EARTH: REVOLUTION

- The earth revolves around the sun and this movement of the earth is known as revolution.



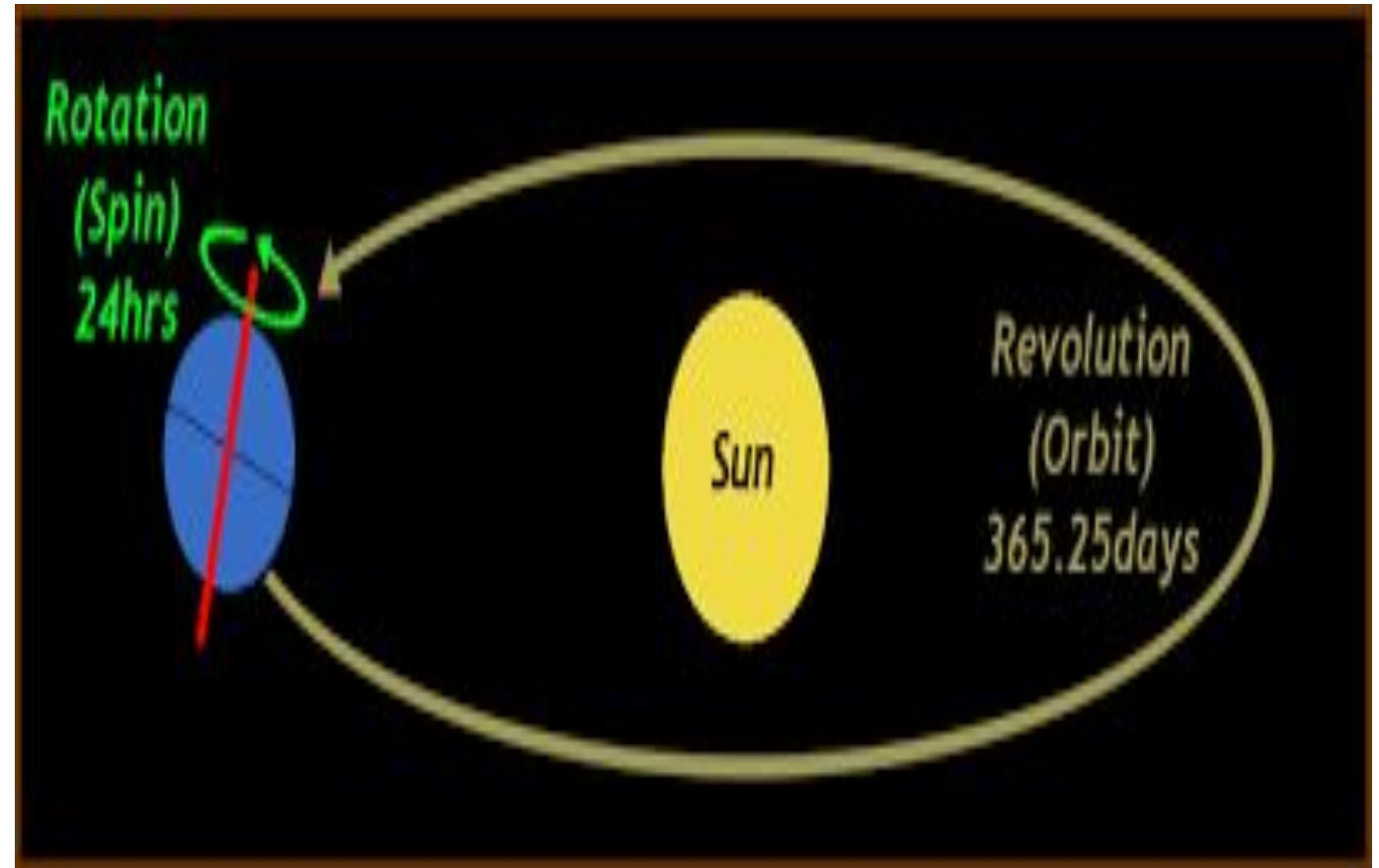
# ORBIT

- The earth moves continuously. It revolves around the sun in a fixed path called an orbit.



## SOLAR YEAR

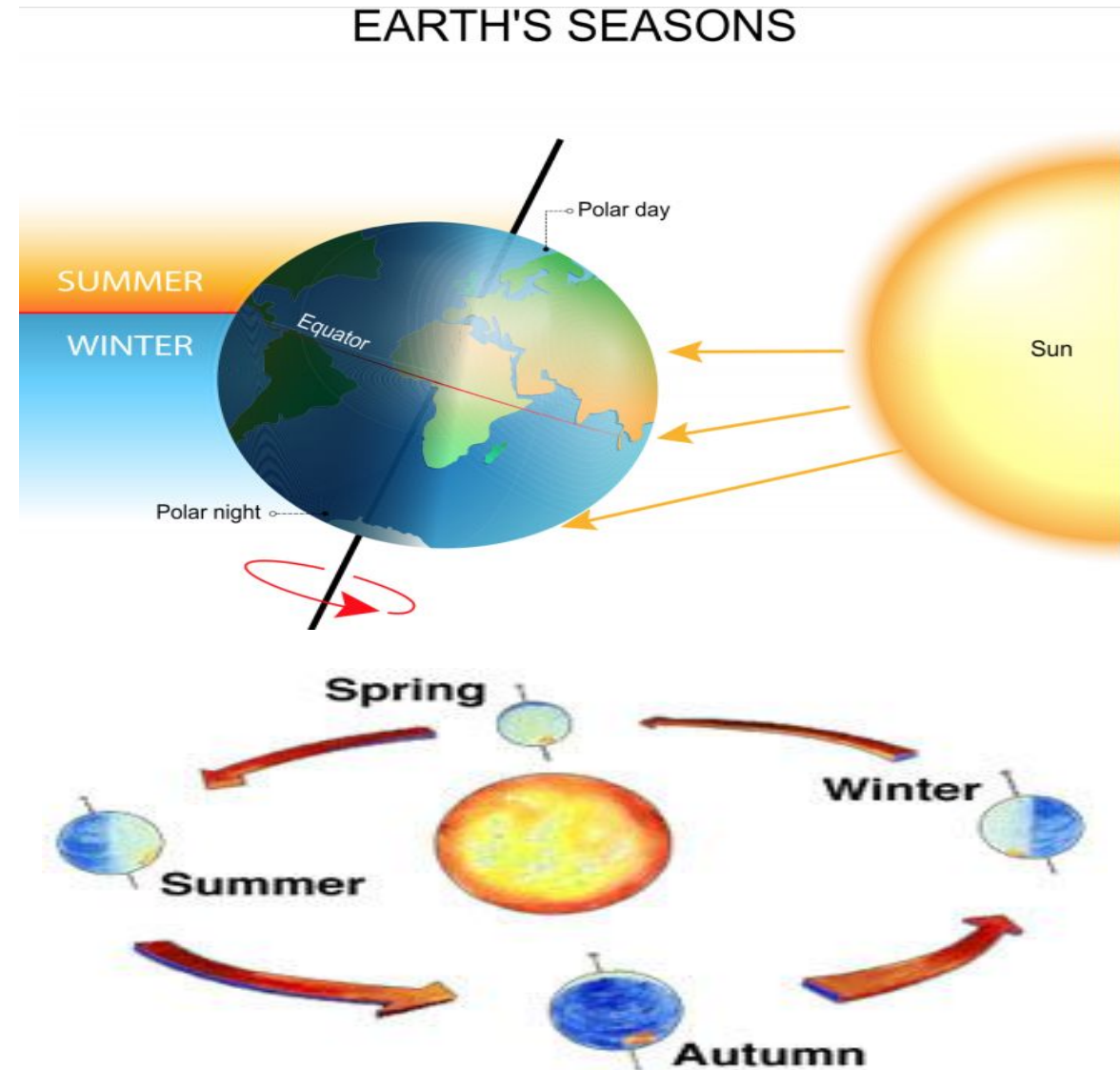
- One revolution is completed in about 365 and  $\frac{1}{4}$  days.
- This time period is called as a solar year.





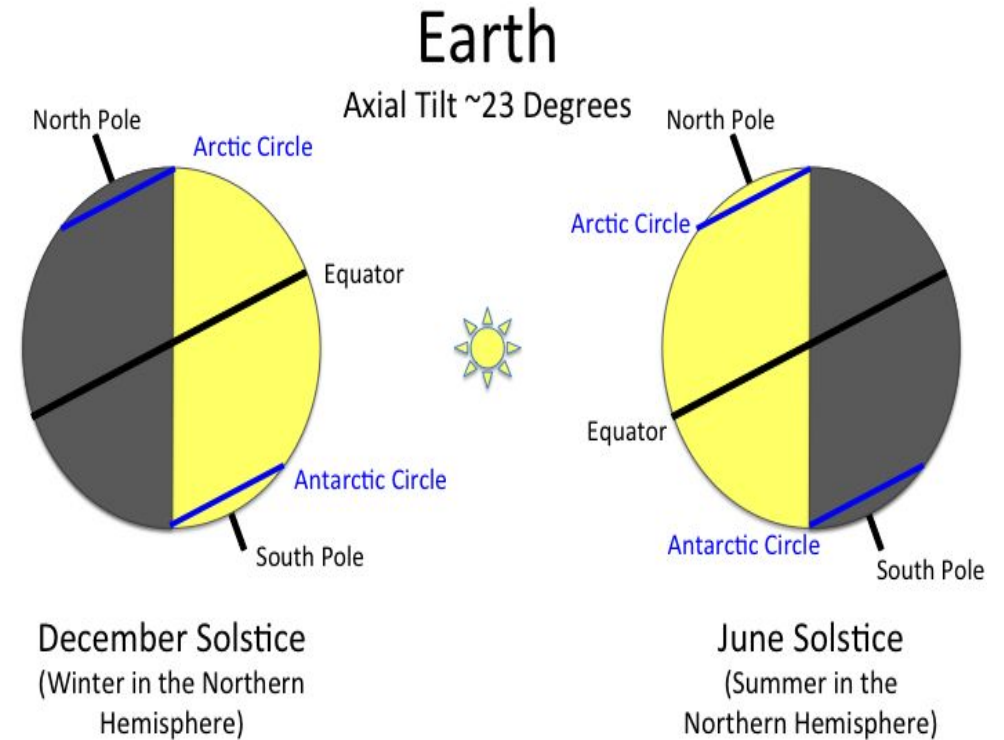
# SEASONS OF EARTH

- As the earth orbits around the sun, the longer days of summer change into the shorter days of winter.
- This causes the seasons: spring, summer, autumn and winter.



## FORMATIONS OF DIFFERENT SEASONS

- When the north pole is towards the sun
- It is summer in the Northern Hemisphere.
- The days seems to be hotter because the sun's rays fall directly.
- During this time south pole is turned away from the sun.
- So, the sun rays do not reach the south pole and there is not much daylight.
- It is winter in the Southern Hemisphere.





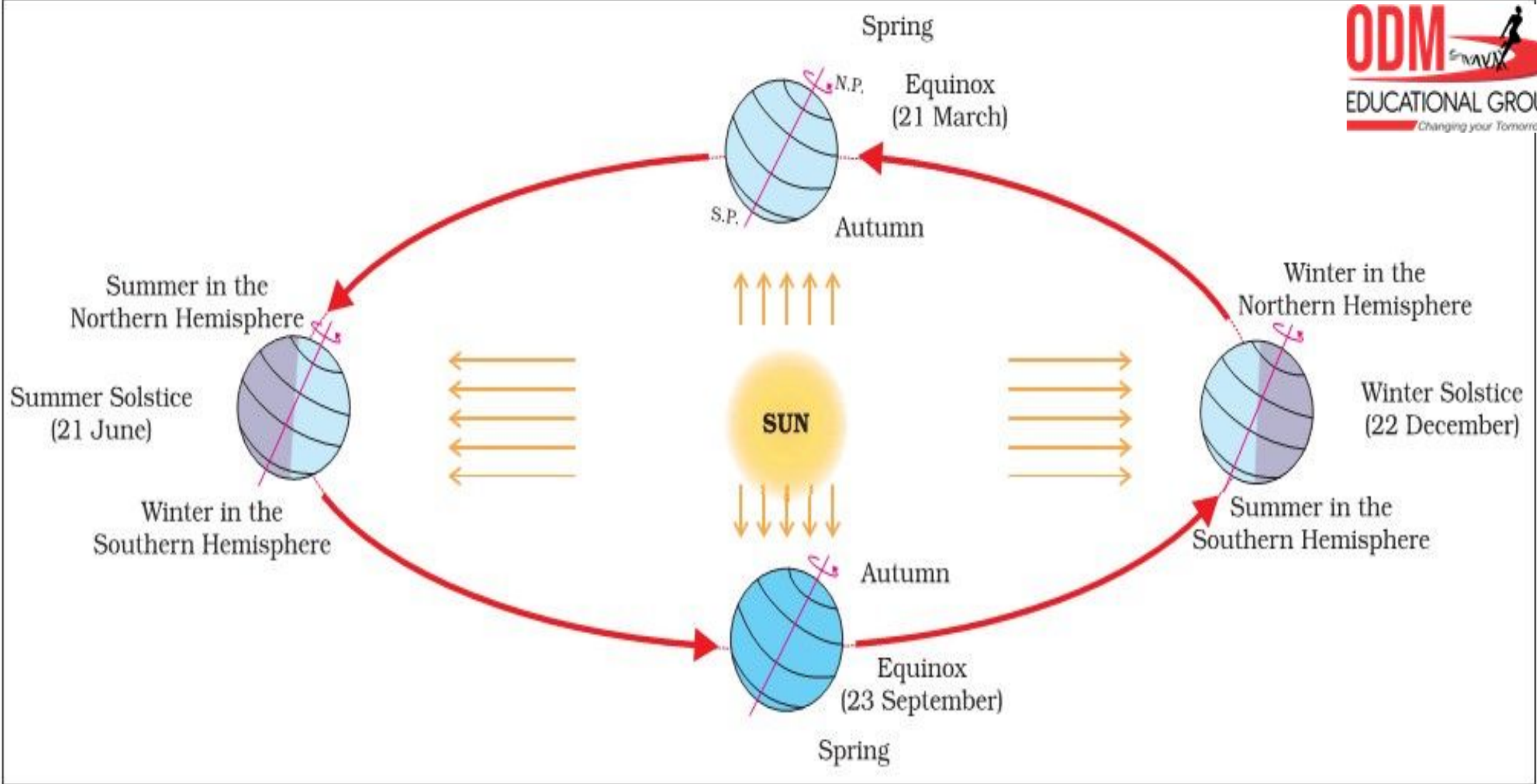
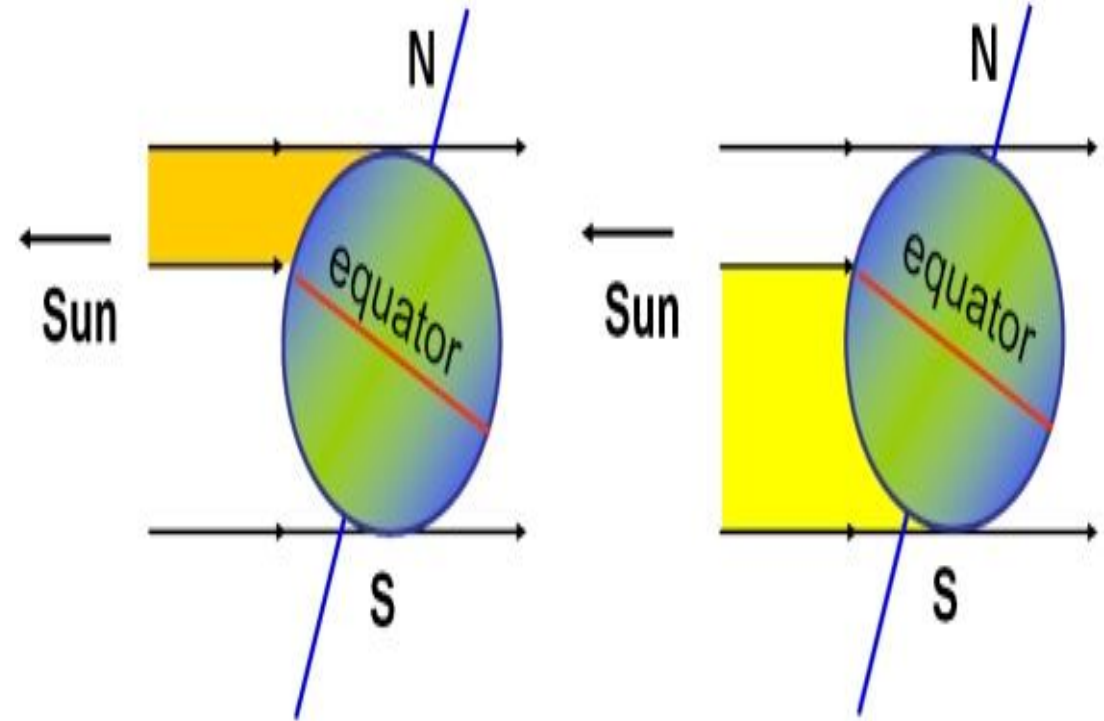


Figure 3.3 : Revolution of the Earth and Seasons

## FORMATIONS OF DIFFERENT SEASONS

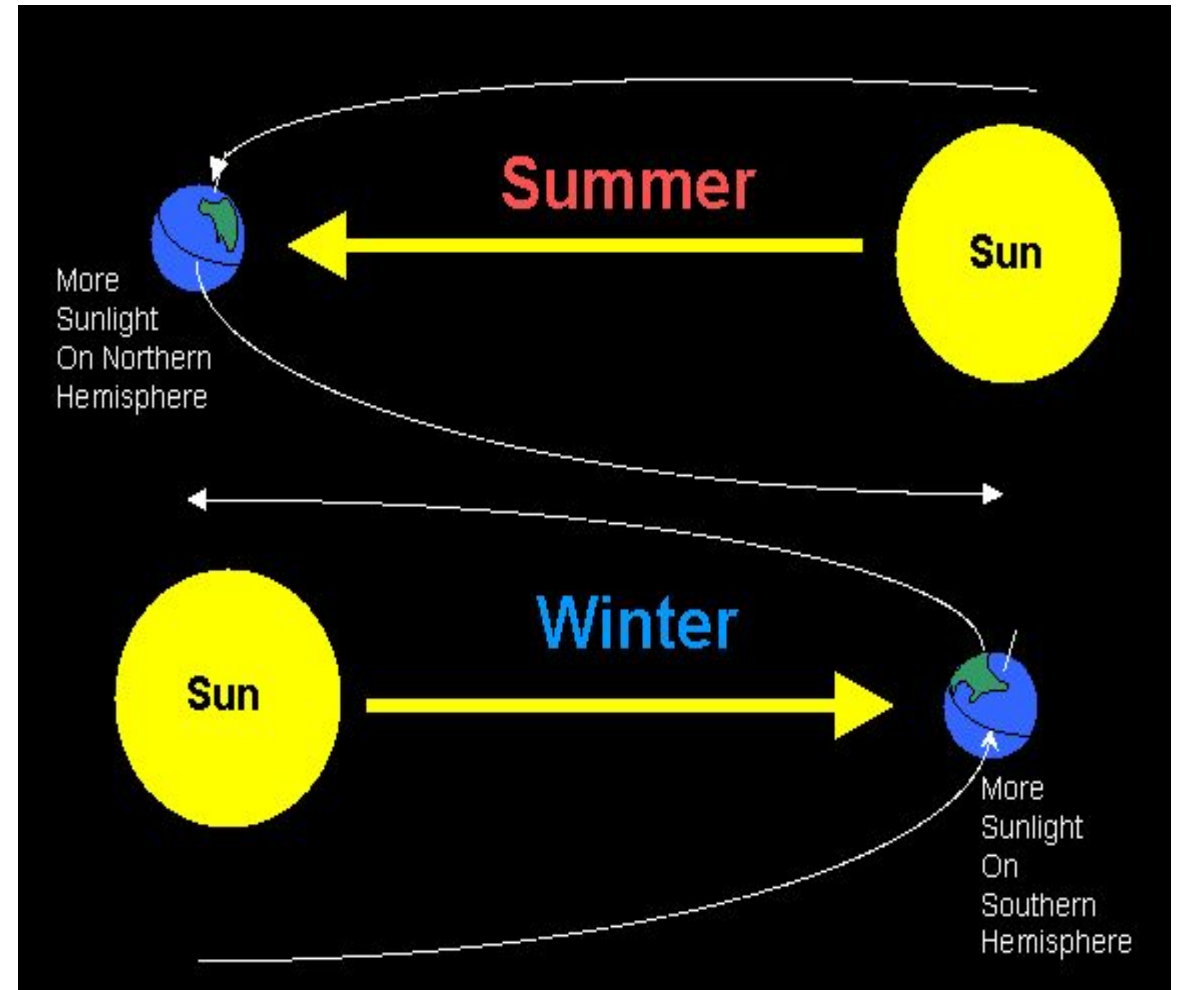
- When the North Pole is turned away from the sun
- It is winter in the Northern Hemisphere.
- The days are shorter and the sun seems low in the sky.
- As south pole faces the sun, It will be summer in the Southern Hemisphere.



## FACTORS CAUSES SEASONS

So, the two factors which cause seasons are

1. The tilted axis of the earth.
2. The revolution of the earth.



## **SUMMARY**

- **The earth moves continuously. It revolves around the sun in a fixed path called an orbit.**
- **Seasons is caused due to revolution of the Earth.**
- **Seasons change because of the tilt of the Earth and the planet's movement around the Sun.**
- **The Earth's revolution causes the temperature conditions that give us spring, summer, autumn and winter seasons.**



**QUIZ TIME!!!**

**1. What causes seasons on earth, rotation or revolution?**

**Ans: Revolution**



**2. The path that an object takes in space when it goes around a sun.**

**Ans: Orbit**

**3. Days are shorter during \_\_\_\_\_ season.**

**Ans: winter**

# Homework



# **HOMework**

- **Draw a labelled diagram of revolution of the Earth causes seasons.**

# LEARNING OUTCOME

**Learner will able to**

- **Know about the movement of our planet earth.**
- **Define the term revolution as it relates to the earth's movement**
- **Understand about the causes of seasons**

**THANKING YOU**  
**ODM EDUCATIONAL GROUP**