



# Creation Lens

*Exploring the World, Discovering God*

*Grade Level: Grade 3*

*Title:*

## **Seasons and Revolution & Your Church Year**

*Denomination: Christian*

*Lesson ID: ES-G3-04-CH*

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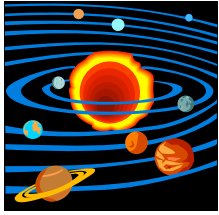
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***Note: Web sites referenced in this lesson were valid at time of publication.***

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## EARTH SCIENCE MODULE – GRADE THREE - CHRISTIAN LESSON 4: Revolution Around the Sun and The Liturgical Year

**GENERAL CONCEPT:** The earth's revolution around the sun and seasons and we have seasons in the Church.

### SCIENCE LESSON CONCEPT

- Seasons on the earth are caused by the earth's revolution around the sun
- Seasons on the earth are caused by the tilt of the earth on its axis.

### GOAL OF SCIENCE LESSON

The seasons are caused by revolution of the earth around the sun and by the tilt of the earth's axis.

### OUTCOME EXPECTED

- Student will be able to name and describe the four seasons.
- Student will be able to explain how each season affects our life.

### RELIGION LESSON CONCEPT

- The Church has a year of worship and prayer.
- The Church Year is composed of seasons and feasts that remember and celebrate God's love for us.

### GOAL OF RELIGION LESSON

Student will be able to name the liturgical seasons and the color associated with each season or feast.

### OUTCOME EXPECTED

Student will be able to relate the Church Year to the Sacred Story.

## MATERIALS NEEDED

- Globe
- Model of the sun
- Seasonal pictures
- Art paper
- Crayons or markers
- Science Journal Page: REVOLUTION AND THE SEASONS
- Pen or pencil
- Small flashlight, laser pointer, or string

## SCIENCE METHODOLOGY

- **ASK:** What changes do you make in your family life for the four seasons? For winter? For Fall? For Spring? For Summer?
- **ASK:** What causes the seasons?
- **HAVE** the student write that question on the Science

## MATERIALS NEEDED

- Description of the seasons in your Church Year.
- Piece of felt the color to represent the season to make a banner
- Rod to hang the banner
- Pattern for symbols on banner (See Links)
- Your church and/or pictures of the Church in the current season
- Construction paper
- Glue for felt
- Scissors
- Pencil
- Cord to hang the banner

## RELIGION METHODOLOGY

- **VISIT** your church or a church and describe the current season. If you can't visit the church use pictures of the church in the current season.

Journal Page.

- **HAVE** the student write an answer on the Science Journal Page.
- **USE** and display the seasonal pictures to spark the discussion.
- **USE** the globe to show the tilt of the earth's axis (poles).
- **ASK:** What effect would the tilt have on our seasons.
- **SHOW** where you are located on the globe.
- **MOVE** the globe around the model of the sun – demonstrating revolution.
- **USE** the flashlight, laser pointer, or string to show that the sun's rays hit the earth at different angles as the earth moves around the sun.
- **USE** your city or state at the point of contact.
- **MOVE** the globe in an elliptical orbit around the sun.
- **STOP** four times: summer, fall, winter, and spring.
- **ASK:** When do we have summer? (Rays are most direct.)
- **ASK:** When do we have winter? (Rays are most indirect.)

- **TELL** the students that they are going to celebrate this season in a special way. They are going to make a banner.

- **GIVE** each student a job to do:

Trace the symbol patterns on felt pieces

Cut on the felt pieces

Trace the letters

Cut out the letters

Put the rod through the banner

Glue the letters

Glue the symbols

Tie the cord to the ends of the banner.

- **HAVE** a short prayer service to bless the banner and sing an appropriate seasonal hymn.
- **HANG** the banner in the classroom
- **POSIT:** Each season of the Church's year brings us closer to Jesus.
- **REMEMBER** to have the class take down the banner when that season is over.

- **HAVE** the students draw the positions of the earth at your summer and winter seasons.
- **DISCUSS** how we have invented items to adapt life to seasons: furnaces, air conditioning, man-made snow, indoor swimming pools.
- **POSIT:** Our lives are affected by the seasons on the earth. The seasons are caused by the tilt of the earth's axis and its revolution around the sun.

## RESOURCES, LINKS AND COMPUTER LESSONS.

### Science Links

(Teacher) Activity based lesson. In this traditional investigation of the causes of the earth's seasons, children model Earth's movement around our Sun using Styrofoam balls and flashlights.

[www.lpi.usra.edu/education/skytellers/seasons/activities/seasons.shtml](http://www.lpi.usra.edu/education/skytellers/seasons/activities/seasons.shtml)

(Teacher and Student) video on seasons and tilt of earth on axis.

[www.bbc.co.uk/science/space/solarsystem/earth/solsticescience.shtml](http://www.bbc.co.uk/science/space/solarsystem/earth/solsticescience.shtml)

### Religious Links

(Teacher) The seasons of the Church Year

<http://www.sundayschoollessons.com/churchyr.htm>

(Teacher) Liturgical colors and seasons of the church year in the United church of Christ

<http://www.ucc.org/search.jsp?x=15&y=6&query=liturgical+colors>

(Teacher) Some symbols and banner ideas; click on link then click on fridge art

[www.domestic-church.com](http://www.domestic-church.com)

(Teacher) Sample banners –simplify your design

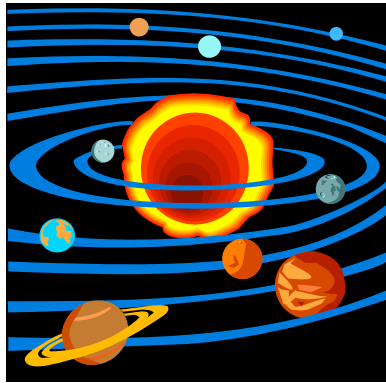
[www.catholicsupply.com/churchs/tapestry.html](http://www.catholicsupply.com/churchs/tapestry.html)

### Computer Links

(Teacher and Student or Parent and Student) On-line planetarium show

<http://library.thinkquest.org/3461/>

**KEY WORDS**  
**EARTH SCIENCE – GRADE THREE- LESSON 4 - CH**

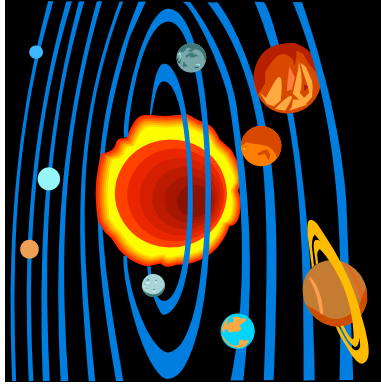


**EARTH**  
**REVOLUTION**  
**SEASONS**  
**SPRING**  
**SUMMER**  
**FALL**  
**WINTER**  
**AXIS**  
**TILT**  
**YEAR**  
**ELLIPTICAL**



**WORSHIP SEASONS**  
**SEASONS AND FEASTS**  
**CHURCH CALENDAR**

**KEY WORDS**  
**EARTH SCIENCE – GRADE THREE- LESSON 4 - CH**



**EARTH**

**WORSHIP SEASONS**

**REVOLUTION**

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**SEASONS**

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