Grade Level: Grade 3
Title: Seasons Affect Growth & The Seasons of the Church

Denomination: Catholic
Lesson ID: ES-G3-01-CA

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Note: Web sites referenced in this lesson were valid at time of publication.
LESSON 1: Seasons Affect the Growth of Plants and the Church has Seasons

GENERAL CONCEPT: Seasons affect the growth of plants.

SCIENCE LESSON CONCEPT
1. Seasons affect the growth of plants.
2. All of our seasons are important for plant growth.

GOAL OF SCIENCE LESSON
1. Student can name and describe the four seasons.
2. Student can demonstrate how seasons affect plant growth.

RELIGION LESSON CONCEPT
1. The Liturgical Year has seasons: Advent, Christmas, Lent, Triduum, Easter and Ordinary Time.
2. All are important for the growth, understanding and living of our Faith.
3. There is a proper time for everything.

GOAL OF RELIGION LESSON
Student can name and describe the seasons of the Liturgical Year.
OUTCOME EXPECTED
Student will be more aware of seasonal changes

MATERIALS NEEDED
- Chart of seasonal rainfall
- Chart or drawing of plant life cycle
- Calendar for the moon cycles
- Farmer’s Almanac – selected sections. Some teachers used the students birth date and read information.
- Science Journal Page: SEASONS AND PLANTS
- Pen/pencil
- See if Science Book has moon cycles.

SCIENCE METHODOLOGY
- **ASK:** What are four seasons of our climate? answers.
- **SAY:** Here on earth we depend on the sun and the moon to provide light. Actually, the sun does all the work. The moon only reflects the light of the sun. Because of the position of the sun and the tilted position of the earth, we receive different amounts of sunlight throughout the year.

OUTCOME EXPECTED
Student will be able to make a simple liturgical year chart for the home

MATERIALS NEEDED
- Desk sized Liturgical Year calendar -1 each
- Paper plates – 1 per student
- Round head fasteners- 1 per student
- Markers/crayons
- Scissors
- Flip chart or blackboard
- Marker or chalk
- Small hole punch
- Magnet strips or yarn for hanger

RELIGION METHODOLOGY
- **ASK:** Does our Church year have seasons?
- **WRITE** them on the flip chart or blackboard.
- **GIVE** each student a desk sized liturgical year chart Calendar from a paper plate and your markers or crayons.
• **ASK:** Describe summer. Record answers.

• **HAVE** the student record each season’s name and description on the Science Journal Page.

• **SAY:** Records are kept to help farmers and gardeners get the best plants. Some of those records are the seasonal rainfall chart which we can get from the TV or newspaper weather reports. Another one is the Farmer’s Almanac.

• **READ** some pre-chosen selections from the Farmer’s Almanac about planting and harvesting.

• **SAY:** important record is on most calendars. It tells the moon’s cycles: __, __, __, full moon, and new moon. Many farmers plant only on certain parts of the moon’s cycle.

• **DRAW** 5 moons with each cycle shown.

• **ASK:** How do seasons affect plant growth? (rainfall, temperature, amount of sunlight, effect of the moon, etc.)

• **HAVE** the student draw the life cycle of the plant according to the season. Use the life cycle of a plant chart as a guide.

• **HAVE** the student write a conclusion statement on the Science Journal Page.

• **GO** over the sections

• **DESCRIBE** the project: Make a Liturgical Year

• **DEMONSTRATE** how to divide the paper plate into sections before the student begins.

• **UPON COMPLETION** of the paper plate project, the student should trace an arrow pattern on cardboard, cut it out and use the round head to fasten the arrow to the paper plate.

• **CUT** two pieces from the magnetic strip or have the student punch holes and insert yarn as a hanger. Have the student stick the magnet strips to the back of the paper plate so they can place it on the refrigerator door at home.

• **POSIT:** The Liturgical Year provides seasons of rapid and slow growth in our spiritual life.
• **POSIT** – Seasons have a big effect on the growth of plants. Some plants need rest cycles which seasons provide.
RESOURCES, LINKS AND COMPUTER LESSONS.

**Science Links**

(Student) Site describes the seasons of growth. Site has pictures of plants during the season. site tells what plants do during each season. Includes Vivaldi's Four Seasons Music http://www.crayola.com/lesson-plans/detail/four-seasons-lesson-plan/.

(Teacher) Worksheets on different seasons and what plants look like during different seasons. http://enchantedlearning.com/subjects/astronomy/planets/earth/Seasons/shtml


(Teacher and student) Good visuals of the phases of the moon and child readable explanations. http://www.woodlands-junior.kent.sch.uk/time/moon/phases.html

(Teacher) Good explanation of our solar system http://solarsystem.nasa.gov/planets/profile.cfm?Display=Kids&Object=SolarSys

(Student) An interactive way for student to explore the solar system. http://science.nationalgeographic.com/science/space/solarsystem

**Religious Links**

(Student) An interactive exploration of the Church’s Year http://www.cyberfaith.com/calendar_index.html

KEY WORDS
EARTH SCIENCE – GRADE THREE- LESSON 1 - CA

SEASONS
SPRING
SUMMER
FALL
WINTER
SUN
EARTH
POSITIONS

LITURGICAL YEAR
ADVENT
CHRISTMAS
LENT
EASTER
PENTECOST
ORDINARY TIME
KEY WORDS
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