



Creation Lens

Exploring the World, Discovering God

Grade Level: Grade 6

Title:

Water Conservation & Catholic Social Teaching on Creation

Denomination: Catholic

Lesson ID: ES-G6-01-CA

Contact Info:

Exploring the World, Discovering God (EWDG)
Institute for Theological Encounter with Science & Technology (ITEST)
20 Archbishop May Drive, Suite 3400A
St. Louis, MO 63119

EWDG email: EWDG-Info@creationlens.org

EWDG web site: www.creationlens.org

ITEST web site: www.faithscience.org

Ph: 314.792.7220

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

Copyright by Exploring the World, Discovering God (EWDG), a pilot program of Institute for Theological Encounter with Science & Technology (ITEST). All rights reserved. The contents, or parts thereof, i.e., lessons/modules, may be reproduced for classroom educational use only. Any reprinting or reproducing for the purpose of sale is prohibited, and if done, party is subject to all legal sanctions.

© ITEST © EWDG



EARTH SCIENCE – GRADE 6 - CATHOLIC
LESSON TITLE: Water Conservation & Catholic Social Teaching on Creation

GENERAL CONCEPT: Necessity for life.

SCIENCE LESSON CONCEPT

- Water conservation is important because it is a limited resource and necessary for life

GOAL OF SCIENCE LESSON

- Students will learn the importance of clean water.
- Students will learn the dangers of pollution.
- Students will research how their own water is purified and what is the source of their water.
- Students will observe and record their water consumption habits.

RELIGION LESSON CONCEPT

- Catholic Social Teaching is a guide for how to live
- We are called to care for God's creation

GOAL OF RELIGION LESSON

- Students will learn that we are called to care for God's creation.
- Students will learn that one way to care for creation is to conserve water.

OUTCOME EXPECTED

- Students will be able to graph personal water consumption.
- Students will understand local water sources and purification processes.

MATERIALS NEEDED

- Graph paper
- Pencils or colored pencils for graph
- Internet sites that show diagrams of water purification plants
- Sites or materials that show and describe diseases and sicknesses caused by polluted water
- 3x5 cards for research notes for the group
- Poster board for group report

OUTCOME EXPECTED

- Students will become more aware of their responsibility to conserve water.
- Students will make others aware of water scarcity and water pollution.

MATERIALS NEEDED

- Poster board
- Bible
- Scissors
- Glue
- Markers
- Crayons
- Petitions for Prayer Service
- Water Conservation Pledge cards
- Sign: Let all who are thirsty, let them come to the water
- Music and lyrics for *Come to the Water*

SCIENCE METHODOLOGY

- **DIVIDE** class into groups.
- **SAY:** Each group will research one aspect of our project.
- **INSTRUCT** groups to research their topic and then report to the class.
 - ~ **GROUP ONE: Research** local water sources and local water purification systems;
 - ~ **GROUP TWO: Research** diseases caused by impure water;
 - ~ **GROUP THREE: Research** main polluting sources of water.
- **AFTER THE RESEARCH IS FINISHED**, each group reports to the class.
- **HAVE** the class work together to prepare a poster board display which illustrates and explains the three Research topics.
- **HAVE** students work individually to examine personal use of water by listing how much water they used or consumed in the last 24 hours. They should include any water used in cooking or preparing food, water they drink or drinks which contain water, toilet flushing, showering or bathing. They should record their water usage on the Science Journal page.
- **ALLOT** time for the students to tally and record water usage.

RELIGION METHODOLOGY

- **DIVIDE** the class into groups to develop a prayer service and presentation on the importance of conserving water.
- **INCLUDE** the following elements in the prayer service/presentation:
 1. **TITLE:** Let all who are thirsty, let them come to the water;
 2. **USE** the information from the science lesson to present: How to Conserve Water and Ways to Prevent Pollution;
 3. **WRITE** a Pledge to Conserve Water;
 4. **ONE COPY** for each person attending;
 5. **READING AND SIGNING** the pledge card;
 6. **PRESENTING** the signed pledge card as an offering;
 7. **USE** Scripture verse from Genesis as the reading;
 8. **SONG:** *Come to the Water.*
- **POSIT AFTER PRESENTATION AND PRAYER SERVICE:** We are charged by God to conserve water and are obligated to tell others about conserving God's creation. Living the Elements of Catholic Social Teaching is a necessity for Christian Living.

- **TALLY** all of the students' water usage and include the total in the poster display.
- **WHEN ALL PROJECTS ARE COMPLETED, ASK:**
What did we learn about polluted and clean water? What does a purification water plant do? How much water did the class use just for toilet flushes if we estimate two gallons of water per flush?
- **POSIT:** Clean water isn't just nice; it is a necessity for good health. We can conserve our use of water and still be hygienic.

SCIENCE LINKS

www.vanaturally.com/sixthgrade/homepage.html

[Virginia Naturally - Sixth Grade Science Resources](#) Hanover, Caroline Soil & Water conservation District MWEE is a...range of on site programs and demonstrations well suited to sixth grade science. Scroll down to Living system for Water project.

www.longwood.edu/cleanva/images/Sec7.decisionsforwater.pdf

Making Decisions for Water Use. Enough clean water for different uses? This lesson was written for...science, the lesson links with 7th grade and also 6th grade.

www.nwwater.com/index.cfm/nodeID/283e6c0d-2010-4c9e09ab8

Saving water is important because most of the water on earth is salt water. Kids conservation.

RELIGION LINKS

www.slideserve.com/Download/82436/Water%20Conservation

Water conservation _ slide Serve Presentation. A joint Roman Catholic and Anglican report arguing...seen next to one of the world's greatest moral...Good slide presentation to show to students as either introduction or review.

www.cathnews.acu.edu.au/502/25.php

Opinion featured on Catholic website. Bishop says water conservation is a moral duty.

www.conservation.catholic.org/usbishops.htm

U. S. Conference of Catholic Bishops – Blessed Kateri. Presented by the Blessed Kateri Tekakwitha Conservation...have a particular duty to address the moral and human..interdependent systems that provide air, food, water...

KEY WORDS

- WATER CONSERVATION
- CONSERVATION
- WATER SOURCE
- PURIFICATION
- CONSUMPTION
- PURIFICATION PROCESSES

KEY WORDS

- RESPONSIBILITY
- CATHOLIC SOCIAL TEACHING
- ELEMENTS
- SCARCITY
- WATER POLLUTION