



Creation Lens

Exploring the World, Discovering God

Grade Level: Grade 6

Title:

The Three States of Matter & The Basic Composition of the Trinity

Denomination: Catholic

Lesson ID: PS-G6-01-CA

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

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TRIUMPHANT

SUFFERING

MILITANT

PHYSICAL SCIENCE – GRADE 6 – CATHOLIC
LESSON TITLE: The Three States of Matter & The Basic Composition of the Trinity

GENERAL CONCEPT: Basic substances.

SCIENCE LESSON CONCEPT

- Three basic states of matter: solid, liquid, gas

GOAL OF SCIENCE LESSON

- Students will be able to observe changes in state.
- Students will be able to illustrate changes in the states of matter.

OUTCOME EXPECTED

- Students will learn what happens to matter when it changes from state to state.

RELIGION LESSON CONCEPT

- The basic substances of the Church: Triumphant, Militant and Suffering

GOAL OF RELIGION LESSON

- Students will be able to name the three states of the Church and describe them: Triumphant, Militant, and Suffering.

OUTCOME EXPECTED

- Students can identify the three states of the Church and how they can work for each other.

MATERIALS NEEDED

- Science Journal page: States of Matter
- Pen or pencil
- Water
- Heat source
- Freezer
- Plastic cups

SCIENCE METHODOLOGY

- **POUR** water into plastic cups and freeze overnight. (as many as needed for students to be able to observe)
- **RETRIEVE** the plastic cups from the freezer, giving one to each group of students.
- **HAVE** students record and illustrate the experiment on the Science Journal page.
- **ILLUSTRATE** the molecular arrangement of the solid on the board.
- **HAVE** students record the molecular arrangement of the solid on the Science Journal page.
- **ALLOW** ice to melt as you continue with the experiment.

MATERIALS NEEDED

- Religion Notebook
- Pen or pencil
- Catechism of the Catholic Church #954

RELIGION METHODOLOGY

- **SAY:** The Catechism of the Catholic Church clearly tells us what we believe as Catholics. Here is what the Catechism says about the three states of the Church #954:

“When the Lord comes in glory, and all his angels with him, death will be no more and all things will be subject to him. But at the present time some of his disciples are pilgrims on Earth. Others have died and are being purified, while still others are in glory, contemplating ‘in full light, God himself triune and one, exactly as he is’.

“All of us, however, in varying degrees and in different ways share the same charity towards God and our neighbors, and we all sing the one hymn of glory to our God. All, indeed, who are of Christ and who have his Spirit form one Church and in Christ cleave together.”

- **AS A DEMONSTRATION**, boil water and have the students observe then illustrate and record the demonstration on the Science Journal page.
- **ILLUSTRATE** the molecular arrangement of the liquid and the gas on the board.
- **HAVE** the students draw the molecular arrangement of the liquid and gas on the Science Journal page.
- **NOW** have the students observe the melting ice.
- **DRAW** the molecular arrangement of the melting ice cube – ½ solid and ½ liquid on the board.
- **HAVE** the students draw the molecular arrangement of the ½ solid and ½ liquid on the Science Journal page.
- **ASK:** What three states of matter did you work with? (liquid, gas, solid)
- **SAY:** It was the same matter (H₂O) but in different states.
- **POSIT:** All matter can be changed from one state into another. This happens when another element is introduced to the matter. Cold from freezer = ice cubes; warm air in room = liquid water; heat from stove = steam or water in gas form.

- **ASK:** From what the Catechism told you, what are the three states of the Church? (pilgrims on earth – militant; purifying ones – suffering; ones in glory – triumphant)
- **HAVE** the students write TRIUMPHANT, MILITANT, AND SUFFERING in their Religion Notebook under the heading: Three States of the Church.
- **ASK:** Is there a feast day on which we celebrate with the Church Triumphant in Heaven? (All Saints Day)
- **ASK:** When is this feast? (November 1)
- **ASK:** What are we supposed to be celebrating on October 31 – All Hallows Eve (All Blessed Ones Eve)
- **ASK:** What obligation do we have on November 1 under pain of serious sin? (attend mass)
- **ASK:** Exactly who are we remembering on all Saints Day? (anyone who is in heaven – not just the canonized saints - in fact, on All Saints Day, we concentrate on all the unknown saints)
- **ASK:** Who might some of these unknown saints be? (parents, grandparents, relatives, friends, neighbors, who have not been formally recognized as saints in heaven by the Church, but whom we are very confident led good lives)
- **ASK:** Is there a feast day on which we remember the Church Suffering in Purgatory? (All Souls Day)

- **ASK:** When is this feast? (November 2)
- **ASK:** When do we remember the Church Militant? (every day at every mass, in our daily prayers)
- **SAY:** The three states of the Church have a working relationship with one another. They can help each other.
- **ASK:** How can the Church Triumphant and the Church Suffering help the Church Militant? (pray to God for us)
- **ASK:** What can we, the Church Militant, do for the Church Triumphant? (tell their stories so that God may be glorified)
- **HAVE** the students create a piece of art, poster, or write an essay on the three states of the Church.
- **POSIT:** The three states of the Church are the Church Triumphant in Heaven, the Church Militant on Earth, and the Church Suffering in Purgatory. Together they form the Communion of Saints – the Church.

SCIENCE LINKS

www.vrml.k12.la.us/cc/vp_gle/6th/6_science.htm

[6th Grade Science Help](#) 6th Grade Practice Science - Sound and Light. 6th Grade Practice Science - Reproduction ... States of Matter. Work and Simple Machines. Energy 2. Classroom energy ... Scroll and then click on Changing States of Matter.

www.proprofs.com/...title=matter-physical-science-8th-grade

This is a quiz for physical science 8th grade – 1st nine weeks. It might be something to offer your accelerated students.

RELIGION LINKS

<https://libbydupont.com/?p=359>

Coins and the Communion of Saints – Making Things Visible.

www.usccb.org/catechism/quizzes/saints.shtml

The communion of Saints and the Forgiveness of Sin...a True and False Quiz.

KEY WORDS

- MATTER
- SOLID
- LIQUID
- GAS
- STATES OF MATTER
- MOLECULAR STRUCTURE

KEY WORDS

- CHURCH TRIUMPHANT
- CHURCH MILITANT
- CHURCH SUFFERING
- COMMUNION OF SAINTS