



*Grade Level: Grade 2*

*Title:*

## **Three States of Matter & The Three Persons of the Blessed Trinity**

*Denomination: Catholic*

*Lesson ID: PS-G2-08-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](mailto:EWDG-Info@creationlens.org)

EWDG web site: [www.creationlens.org](http://www.creationlens.org)

ITEST web site: [www.faithscience.org](http://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



## **FATHER, SON, HOLY SPIRIT**

### **PHYSICAL SCIENCE – GRADE 2 - CATHOLIC** **LESSON TITLE: Three States of Matter & The Three Persons of the Blessed Trinity**

#### **SCIENCE LESSON CONCEPT**

- The three states of matter: solid, liquid, gas

#### **GOAL OF SCIENCE LESSON**

- Students will be able to distinguish three states of matter.

#### **OUTCOME EXPECTED**

- Students will be able to name the three states of matter.
- Students will be able to correlate that solid, liquid, and gas will not react the same way.
- Students will be able to define the term “matter”.

#### **RELIGION LESSON CONCEPT**

- The three Persons in one God – The Trinity

#### **GOAL OF RELIGION LESSON**

- Students will learn that the Holy Trinity is three Divine Persons in one God.

#### **OUTCOME EXPECTED**

- Students will be able to identify the Holy Trinity as one God with Three Divine Persons: Father, Son, and Holy Spirit.
- Students will know that the Sign of the Cross is a Trinity prayer.

## **MATERIALS NEEDED**

- Cold water
- Hot water to mix Jello
- Big container of ice
- Bowl to mix Jello
- Ice
- Jello
- Air
- Balloons
- Bubbles
- Pitcher
- Containers of different sizes
- Spoons
- Measuring cups
- Cups
- Bowls
- Sign with big oval saying MATTER and three small

## **MATERIALS NEEDED**

- Picture of God the Father – Creator
- Picture of God the Son – Jesus – Crucifix
- Picture of God the Holy Spirit - Dove
- Battery operated candle or real candle and match

ovals connected to the big oval with straight lines. The small ovals contain a single word: solid, liquid, or gas.

- Science Journal Page: The Three States of Matter
- Crayon
- Pencil
- Outside space to blow bubbles

## SCIENCE METHODOLOGY

- **SAY:** Everything that takes up space is matter.
- **HAVE** the students draw and color some object that is matter on the Science Journal Page: Three States of Matter.
- **GIVE** the students time to draw and color the solid object.
- **SAY:** Remember that matter is anything that takes up space. What did you draw on your Science Journal Page? (As the students answer and hold up their drawing, identify the matter as being in the solid, liquid, or gaseous state.)
- **ASK:** What are the three states of matter? Remember your drawings and what I told you about each drawing. (solid, liquid, and gas)

## RELIGION METHODOLOGY

- **SAY:** We have seen in science class how all matter can exist in three different states. God is the Creator of all matter and God is greater than all matter.
- **SHOW** the students the battery operated candle in the ON position. (Usually real candles and flames are not allowed in schools. If your school permits a real candle and flame, please use it.)
- **ASK:** How many flames do you see? (one)
- **ASK:** How do you know there is a flame on the candle at all? (they see the light)
- **ASK:** If we were blind and put our hand over the candle, how would we know the flame is there? (feel the heat)
- **SAY:** There is the flame, and the light, and the heat. They are inside one another. This is just like God.

- **GIVE** the students some containers and have them pour liquids into the different shaped containers.
- **SAY:** Water is in the liquid state.
- **ASK:** What happened when you poured the water into different shaped containers? (water took on the shape of the container)
- **ASK:** What would happen if we mixed this Jello into some hot water? (it would dissolve in the water)
- **ASK:** What would happen if we put this Jello into a mold or container with a definite shape? (it takes on the shape of the container)
- **MIX** the Jello into the hot water and pour into a mold.
- **ASK:** How could we get this liquid (Jello) to become a solid? (refrigerate, cool it)
- **PUT** the Jello into the refrigerator or into a large bowl of ice.
- **HAVE** the students draw the Jello experiment on the Science Journal Page.
- **SAY:** We have seen liquid (water) and solids (objects in the room and the Jello) and now we want to see the gaseous state. Air is a gas but we can't see it. So we are going to do two things: blow up balloons with air and blow bubbles.

- **SHOW** the pictures of the Holy Trinity.
- **ASK:** Which picture shows God the Father?
- **ASK:** Which pictures shows God the Son?
- **ASK:** Which picture shows God the Holy Spirit?
- **SAY:** Remember the flame, the light, and the heat but one candle? God is like this. There is one God: God the Father, God the Son, and God the Holy Spirit. Just like a candle has flame, light, and heat.
- **SAY:** God is the creator of everything you see. God made all matter. Remember that matter is anything that takes up space, including us.
- **SAY:** God the Father is usually shown as the Creator of the world.
- **SAY:** God the Son is Jesus who became a human being while remaining God. He suffered and died and rose from the dead so that we could live forever with God in heaven.
- **SAY:** God the Holy Spirit is the third Person of the Holy Trinity who the apostles received on Pentecost. He appeared over their heads as though tongues of fire. They were filled with the Holy Spirit and began to teach about Jesus. We receive the Holy Spirit at Baptism and in every sacrament.

- **GIVE** the students balloons to blow up.
- **ASK:** How do you know the air is in the balloon? (balloon expanded)
- **HAVE** the students draw the balloons on the Science Journal Page.
- **GIVE** the students liquid bubbles and wands to blow bubbles – perhaps outside.
- **SAY:** We can make bubbles by blowing air into the liquid. Let's try it out.
- **GO OUTSIDE** if possible to blow bubbles. Return inside.
- **SAY:** Draw the bubbles of the gaseous state on your Science Journal Page.
- **ALLOW** time for the students to draw and color the bubbles.
- **POSIT:** All matter can exist in three different states: solid, liquid, or gas.

- **SAY:** Each time we make the Sign of the Cross and say the prayer, we are praying to the Holy Trinity. Let's make the Sign of the Cross together. (Be sure the students make and say the prayer correctly. The words are: *In the Name of the Father, and of the Son, and of the Holy Spirit. Amen.*)
- **POSIT:** We believe that there is one God with three Divine Persons: God the Father, God the Son, and God the Holy Spirit.

## SCIENCE LINKS

<http://www2.mcdaniel.edu/Graduate/TI/pages/LEWIS/matterweb.htm>

Elementary Science: Matter The three **states of matter** are solids, liquids ... the properties of different **states of matter**. A first through third **grade** ... your own lesson plans in many **science** ... Good interactive site for students with information and ideas for the teacher.

## RELIGIOUS LINKS

Information on the Holy Trinity at [www.webelieveweb.com](http://www.webelieveweb.com)

[www.catholicmom.com/lesson plan websites.htm](http://www.catholicmom.com/lesson_plan_websites.htm)

Catholic Sunday School Lesson Plans - Favorite Religious Our **lesson** plans are provided free of charge and produced by ... Bible Story Puzzles: **Grades 1-3** (Fun Faith-Builders) Scroll down to Holy Trinity and choose from multiple activities and puzzles.



#### KEY WORDS

- SOLID
- LIQUID
- GAS
- MATTER
- GASEOUS



#### KEY WORDS

- HOLY TRINITY
- GOD THE FATHER
- GOD THE SON
- GOD THE HOLY SPIRIT
- CANDLE
- FLAME
- LIGHT
- HEAT
- SIGN OF THE CROSS



## KEY WORDS



SOLID

LIQUID

GAS

MATTER

GASEOUS

HOLY TRINITY

GOD THE FATHER

GOD THE SON

GOD THE HOLY SPIRIT

CANDLE

FLAME

LIGHT

HEAT

SIGN OF THE CROSS