



Creation Lens

Exploring the World, Discovering God

Grade Level: Grade 5

Title:

Body Systems

Denomination: Catholic

Lesson ID: LS-G5-06-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



LIFE SCIENCE – GRADE 5 – CATHOLIC

LESSON TITLE: Body Systems

SCIENCE LESSON CONCEPT

- Body systems work as one to sustain human life

GOAL OF SCIENCE LESSON

- Students will learn the inter-relationships between the body systems.

RELIGION LESSON CONCEPT

- We are the systems of the Body of Christ
- We must work together to sustain our life with God
- We are part of the Mystical Body of Christ

GOAL OF RELIGION LESSON

- Students will learn the inter-relationships between the members of the Body of Christ.
- Students will learn the inter-relationships between parish, school, and the community.

OUTCOME EXPECTED

- Students will construct a model of the human body and its various systems.
- Students will analyze the structure and function of each system.
- Students will identify and explain how these systems work together.

MATERIALS NEEDED

- Science Journal page: Human Body systems
- Pen or pencil
- 7 cut-out cardboard human body models (about the size of your average student)
- Crayons or markers
- Large white paper roll
- Scissors
- 7 groups of students
- Tape
- Illustrations of body systems

OUTCOME EXPECTED

- Students will identify and explain how the members of the Body of Christ: faithful on earth, souls in purgatory, and the victorious in heaven work together.
- Students will understand how the parish, school, and community form one entity.
- Students will participate in an activity incorporating the parish, school, and community.

MATERIALS NEEDED

- Religion Notebook/Journal
- Pen or pencil
- Boxes
- Poster Material
- Markers, crayons, cut-outs
- Computer

SCIENCE METHODOLOGY

- **IDENTIFY** the 7 systems of the Human Body.
- **NAME AND DEFINE** each of the following: Nervous System, Circulatory System, Respiratory System, Endocrine System, Reproductive System, Skeletal System, and Digestive System.
- **HAVE** the students write each system and definition on the Science Journal page in a list.
- **AS A REVIEW**, ask what organs or parts make up each system. For example: Nervous System: Brain, Spinal cord; Circulatory System: Heart, Arteries, Veins; continue on with each system.
- **HAVE** the students write the major organs or parts next to the list of the Body Systems on the Science Journal page.
- **EXPLAIN** that the body systems work together as one to serve the needs of the human body and to work for survival.
- **GIVE** an example of how the Nervous System and the Circulatory System work together: Nervous System tells heart to beat and the Circulatory System provides blood to the brain.
- **SAY:** The cooperation among the systems is essential to the total health of the body.

RELIGION METHODOLOGY

- **IDENTIFY** how we incorporate activities and daily life within our parish, school, and community.
- **SAY:** We pray, learn about God and demonstrate God's will for us in our parish, in our school, and in our community.
- **EXPLAIN** that we pray in the parish at church at least on Sunday; we pray daily or more often at school, and we pray in the community: at home, at sports, in hospitals, at funeral homes, etc.
- **ASK:** How else do we interact in our parish, school and community? (we role model for each other by volunteering in the parish, serving Mass, child care, studying and doing our work in school, and doing our chores in the family)
- **SAY:** The Mystical Body of Christ is made up of the faithful on earth (us), the souls in purgatory, and the victorious in heaven (saints). Each group helps and uses each other's group. We can ask the saints in heaven to intercede for us or we can use them as role models to be more like Jesus.
- **EXPLAIN** that heaven can be described as:
 - ~ Seeing as much of God as I can hold
 - ~ Knowing what angels are and being able to communicate with them
 - ~Feeling I've come "home" and am perfectly safe

- **ASK:** How do other body systems work together? This exercise will tell you how much the students understand about each body system.
- **ASSIGN** the students into 7 groups.
- **WITHIN** each group, have the students trace and cut out an outline of their body and illustrate a particular body system so that in each group each body system will be illustrated.
- **HAVE** the students overlay each of the 7 systems into the cut-out body model and attach to the wall.
- **HAVE** the students personalize their human body face (hair color, eyes, etc.)
- **HAVE** each group present their human body system overlay project to the class. In the presentation the students should:
 - ~ Name the body system
 - ~ Name the major organs or parts of the system
 - ~ Explain what it does for the body
 - ~ Explain how the system functions
 - ~ Explain any interactions with other systems
- **THE TEACHER** should be a resource for all the groups enabling them to find information and stay on track.
- **POSIT:** The human body systems interrelate with each other to keep the body functioning. All systems are essential to a well-working body.

- ~ Being wrapped in God's love like a big hug
- ~ Never being sick or in pain, or being tired
- ~ Being all I can be in my own personality
- ~ Recognizing all those I love
- ~ Coming to know everyone's story
- ~ Recognizing people not only on the outside but on the inside
- ~ Being able to see people's love shining out
- ~ Feeling I am one with everyone
- ~ Being in peace and joy with no fighting or selfishness
- **SAY:** The saints in heaven enjoy all of this and are eager for us to share it with them.
- **SAY:** The souls in purgatory form another part of the Mystical Body of Christ . Purgatory** can be described as:
 - ~ experiencing the pain of not entering the joy of heaven
 - ~ blushing when we try to look at God's beautiful face
 - ~ God's cleansing us of our sins with his love
 - ~ the final stage of what must change in our human loving to enter into God's presence who is pure love.
- **SAY:** The souls in purgatory can pray for us and we can pray for them.
- **SAY:** That leaves us – the Faithful on earth.
- **ASK:** What is our role in this Mystical Body of Christ? What can we do? Who can help us?
- **HAVE** the student design and perform a service project

for the local food pantry which will call on the resources of the parish, the school, and the community. (A food drive for the St. Vincent de Paul Society in your parish could be done in the school and could be done outside local grocery stores by the students. Other projects could be a mitten and glove drive or adopt a family for Christmas.)

- **HAVE** the students illustrate posters giving awareness of the timeline and the list of items needed.
- **HAVE** the students place the posters (with permission) around the parish, school and at local businesses.
- **HAVE** the students create a flyer which can be emailed to all school families and all parish families by the school secretary and the parish secretary.
- **HAVE** the students pray daily for the success of their project asking the souls in purgatory and the saints in heaven to ask God's blessing on the project. The students can pray for the souls in purgatory and thank God for the saints and their examples.
- **WORK** the project.
- **EVALUATE** the success and level of cooperation between the parish, the school, and the community. How many boxes of items were gathered at school, at the parish, at local businesses?
- **POSIT:** The interaction of the parish, school, and community optimizes the way the members of the Body

of Christ can help each other. All parts of the Mystical Body of Christ are essential for Christ's Body to function well and bring about His Kingdom.

NOTE: FOR THE TEACHER

**Purgatory was once described by a wise old Jesuit Priest as "Learning how to forgive..."

SCIENCE LINKS

www.graves.k12.ky.us/powerpoints/elementary/

Click on ***Cells to Body Systems***.

www.worksheetlibrary.com/.../grade5/science/life/systems

[Grade 5 Body Systems Worksheets - Printable Worksheets for ...](#) **Grade 5 Body Systems** Worksheets For Printable Download. ... The Heart. Identify parts of the heart and the movement of blood flow.

RELIGION LINKS

www.ewtn.com/faith/teachings/chura1.htm

The Catholic Church is the Mystical Body of Christ by Fr. William G. Most. Speaking of full membership in the Church, Pius XII, in his Encyclical on the Mystical Body....

www.newadvent.org/cathen/-06631.htm

[CATHOLIC ENCYCLOPEDIA: Mystical Body of the Church](#)

The members of the Church are bound together by a supernatural life communicated to them by **Christ** through the sacraments

www.tellout.com/body/mystical7.htm

[Christians and the Body of Christ](#)

KEY WORDS

- BODY SYSTEM
- CIRCULATORY
- ENDOCRINE
- REPRODUCTIVE
- RESPIRATORY
- SKELETAL
- DIGESTIVE
- NERVOUS
- RELATIONSHIP
- INTER-RELATIONSHIP
- ESSENTIAL

KEY WORDS

- BODY OF CHRIST
- MYSTICAL BODY OF CHRIST
- SOULS IN PURGATORY
- FAITHFUL ON EARTH
- VICTORIOUS IN HEAVEN
- PARISH
- COMMUNITY
- RELATIONSHIP
- INTER-RELATIONSHIP