



Creation Lens

Exploring the World, Discovering God

Grade Level: Grade 7

Title:

Gems and Minerals & “Gems” of the Church

Denomination: Catholic

Lesson ID: ES-G7-02-CA

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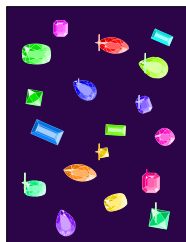
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Note: Web sites referenced in this lesson were valid at time of publication.

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EARTH SCIENCE – GRADE 7 – CATHOLIC **LESSON TITLE: Gems and Minerals & “Gems” of the Church**

GENERAL CONCEPT: Gems

SCIENCE LESSON CONCEPT

- Minerals and gems
- Characteristics, strengths, and beauty of gems

GOAL OF SCIENCE LESSON

- To research diamonds, rubies, emeralds, etc.
- To design a teaching tool to instruct their first grade buddies about gems.

OUTCOME EXPECTED

- Students will be able to instruct their 1st grade buddies about a particular gem.

RELIGION LESSON CONCEPT

- Saints
- Characteristics, strengths, and beauty of each saint

GOAL OF RELIGION LESSON

- To research a particular saint.
- To design a teaching tool to instruct their 1st grade buddies about the saint.

OUTCOME EXPECTED

- Students will be able to instruct their 1st grade buddies about a particular saint.
- Students and 1st grade buddies dress as a saint and participate in the school's tradition of All Hallows Eve.

MATERIALS NEEDED

- Science Journal page: Gems
- A bag of costume jewelry “gems”
- Internet search engine on gems or reference books on gems
- Jeweler to visit and explain the characteristics of several gems
- Poster board (1 per student)
- Markers
- Scissors
- Glue

SCIENCE METHODOLOGY

- **SAY:** We are going to research a particular group of minerals which we call gems.
- **ASK:** Can you name some gems? (diamond, ruby, emerald, topaz, sapphire, opal)
- **SAY:** You are to select one gem and research 5 important facts about that gem. You are going to teach your 1st

MATERIALS NEEDED

- Religion Notebook
- Costume of a saint brought from home
- Lists of saints’ names
- Internet search engine or reference books on the lives of saints
- Props for that saint (St. Patrick – shamrock)
- Poster board (1 per student)
- Markers or crayons
- Scissors
- Glue
- Saint’s name sign with a string or yarn neck piece

RELIGION METHODOLOGY

- **SAY:** We are going to prepare to teach our 1st grade buddies about the saints. You are to select a saint – each person should have a different saint. You are to research 5 things about this saint. Those things are:
 1. Name and type of saint (martyr, virgin, holy man, holy woman, priest, confessor, bishop)
 2. Picture of the saint

grade buddies about that gem. Here are the 5 things you need to research:

1. Description of the gem
 2. Where it is found – on a map
 3. Strength
 4. Uses – pictures
 5. Any traditions or stories about this gem
- **SAY:** You can look on the internet and in reference books to find these five facts. You will need a picture of this gem as well as a map showing where it is found.
 - **GIVE** your requirements for this research activity.
 - **LATER**, have the students make a poster of their gem. Have them include the costume gems on the poster.
 - **HAVE** a jeweler speak to the class and show, if possible, the gems selected by the students.
 - **ARRANGE** for the students to meet with their 1st grade buddies and teach them about gems.
 - **AFTER** the teaching session, ask the students what they thought the 1st graders learned.
 - **HAVE** the 1st graders draw a picture of what they learned.
 - **GIVE** the 1st graders' drawings to the 7th grade buddy.
 - **POSIT:** Certain minerals called gems have different characteristics or properties.

3. Country of the saint – including map
4. Dress of the saint
5. Three things for which the saint is famous

- **SAY:** You may use the internet or reference books for your research. Take notes in your Religion notebook.
- **ALLOT** time for this activity.
- **SAY:** Now that you have all the information you need about this saint, you need to prepare a costume which will fit your 1st grade buddy. You also need to prepare a costume of this saint for yourself. Use simple things found at home. You can ask your buddy's parents for robes, etc., by writing a note and we will give the notes to the First Grade teacher to send home.
- **SAY:** Now you need to prepare a poster which you will use to instruct your 1st grade buddies about this saint. You will speak as though you are this saint. You are to tell them who you are and what kind of saint (martyr, virgin, bishop, confessor, holy man, holy woman, religious) You are to describe and explain your dress. You are to tell them three things for which you are famous.
- **ALLOW** time to prepare the posters.
- **ON THE DAY SELECTED** have the students give their presentations to the 1st graders.
- **ON ALL HALLOWS EVE** or the closest school day to the eve, have the 7th grade students and their 1st grade

buddy dress as their saint. The 1st graders will wear the saint's name sign around their neck.

- **HAVE** a Saints Procession visiting other classes or give a presentation at a school assembly or mass where the 7th graders give a brief history of their saint.
- **POSIT:** The saints are the shining examples of how to follow Jesus. They are our gems.

NOTE: Additional School Activity: Saint of the Month Proposal. A group of parents could take on this project. Each month they choose a saint whose feast day is celebrated that month. The group researches the saint then one parent can dress as the saint and speak as if they were the saint. They answer the students' questions.

SCIENCE LINKS

www.internet4classrooms.com/grade_level_help/earth...Properties

Properties of Minerals, seventh 7th Grade Earth Science Standards, Grade level Help, Internet 4...the most beautiful naturally occurring minerals or polished gemstone.

www.lessonplanet.com/search?keywords=science+gemstones&

Science Gemstones Worksheets Reviews are by Teachers. 28 Views 7th – 9th Grade 3.0 /5. In this minerals worksheet, students explain why diamonds and rubies are so valuable and what these types of minerals are called. A good selection of worksheets at this site.

www.slideshare.net/allsaintsscience/7th-grade...of-minerals

7th Grade Chapter 4 Sec. 1 Properties of Minerals – Presentation Transcript. Minerals: Mineral or non-mineral? Definite chemical ...Good slide presentation suitable for students.

RELIGION LINKS

www.catholic.org/saints

Saints & Angels - Catholic Online Searchable directory of saint profile pages. Also includes a saint calendar, feast day list, and information on patron saints.

www.americancatholic.org/Features/Saints

Roman Catholic Saints By Name | Saint of the Day ... Saint of the Day offers daily inspiring saints' stories and presents ways to apply their example. Send free Saints' e-greetings.

KEY WORDS

- MINERAL
- GEM
- DIAMOND
- RUBY
- EMERALD
- SAPPHIRE
- TOPAZ
- OPAL
- COLOR
- PURITY
- BRILLIANCE
- STRENGTH
- PROPERTIES

KEY WORDS

- SAINT
- MARTYR
- VIRGIN
- CONFESSOR
- BISHOP
- HOLY MAN OR WOMAN
- ROLE MODEL