



# Creation Lens

*Exploring the World, Discovering God*

*Grade Level: Grade 3*

*Title:*

## **Generating Light & Saints Lighting the Way**

*Denomination: Catholic*

*Lesson ID: PS-G3-04-CA*

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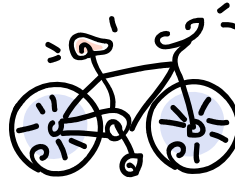
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***Note: Web sites referenced in this lesson were valid at time of publication.***

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## PHYSICAL SCIENCE MODULE – GRADE THREE - CATHOLIC

### LESSON 4: How to Generate Light and Holy People are Glowing Examples to Us.

**GENERAL CONCEPT: Generating Light and Holy People use God's Energy to be Glowing Examples.**

#### SCIENCE LESSON CONCEPT

How can you generate light?

#### GOAL OF SCIENCE LESSON

Student will understand how a light bulb uses energy to glow.

#### OUTCOME EXPECTED

- Student will be able to label the parts of a light bulb.
- Student will be able to describe how a light bulb works.

#### MATERIALS NEEDED

- Generator: bike hooked up or a crank hooked up to a light bulb

#### RELIGION LESSON CONCEPT

The saints are people who used God's energy so well that they glow brightly as example for us.

#### GOAL OF RELIGION LESSON

Student will understand that the saints can show us how to become more pure so that God can shine through us.

#### OUTCOME EXPECTED

Student will be able to tell how various saints came to know God.

#### MATERIALS NEEDED

- Lives of the Saints book

- Science Journal Page: GENERATING LIGHT
- Darkened Room
- Pen/pencil
- Connection wires

### SCIENCE METHODOLOGY

- **DISCUSS** with the student how energy is manifested in a light bulb – glow.
- **ASK:** Where does the light in the light bulb come from? (Electricity)
- **ASK:** What happens if we do not have electricity? Can we still have the light bulb on? (If we generate the energy)
- **EXPLAIN** how the bike pedal or crank is connected and how it works.
- **HAVE** the students predict how brightly, if any, they can get the bulb on the Science Journal Page.
- **DO** the experiment. Darken the room to catch the faintest glow from the bulb.
- **PEDAL OR CRANK** faster and faster.

- The Life of your School's Patron Saint
- Saint Report Form
- Pen/pencil
- Costumes for a saint parade

### RELIGION METHODOLOGY

- **READ** the section on saints from your textbook, if available.
- **TELL** the students about your patron saint.
- **GIVE** the student a saint book to read.
- **GIVE** the student a saint report form to complete. Think about what you really want them to know about the saint. (3-5 main things.)
- **PROVIDE** various costumes so the student can dress up like the saint during their report.
- **HAVE** student give the report but save the name of the saint until the very last.
- **HAVE** the class guess the saint?
- **ASK:** How did these people pass along God's energy to us?

- **SAY:** We crank the handle on an ice cream maker or a butter churn, we provide the energy to make the machine move.
- **ASK:** Why could or couldn't we get the bulb lighted? (Didn't produce enough energy.)
- **POSIT:** We can generate light if we supply the energy.
- **POSIT:** Light is energy manifested in a particular way.

- **ASK:** What happens if we don't follow God's light long enough or fast enough? (We won't become holy like the saints.)
- **SAY:** What will you do to be more your saint today?
- **HAVE** the student write down their intention for the day and put it in their religion book.
- **POSIT:** Saints share God's energy with us by showing us ways to become more like God.

## **RESOURCES, LINKS AND COMPUTER LESSONS.**

### **Science Links**

(Student) Facts, Did you know, experiments, investigations, and jokes

<http://www.suzy.co.nz/SuzysWorld/FactSheetIndex.asp>

(Teacher) Light bulbs and how they work

<http://www.indepthinfo.com/gadgets/light-bulb.shtml>

(Teacher) Plans to light up a light bulb

<http://www.sciencemadesimple.com/projects.htm>

### **Religious Links**

(Teacher) Saints on line; What is a saint? All about the saints

<http://www.catholic.org/saints>

(Student and Parent) Fun Facts about your saint

<http://www.catholic.org/saints/>

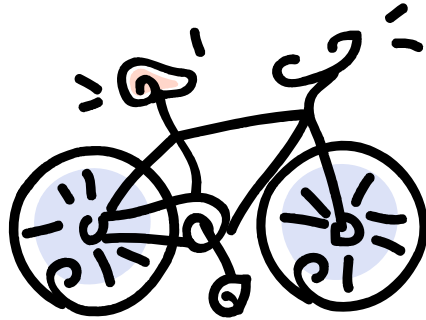
(Parent and Student) Click on Fun Facts and then choose a saint.

<http://www.domestic-church.com/CONTENT.DCC/pages.dir/saints.htm>

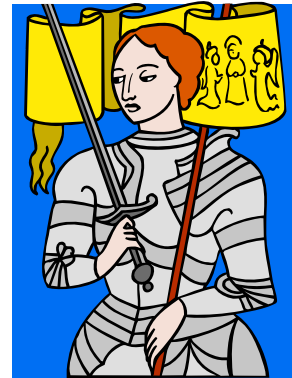
### **Computer Lesson**

(Students) Using Graphics and text create your own These are Our Saints book for the classroom.

**KEY WORDS**  
**PHYSICAL SCIENCE – GRADE THREE- LESSON 4 - CA**

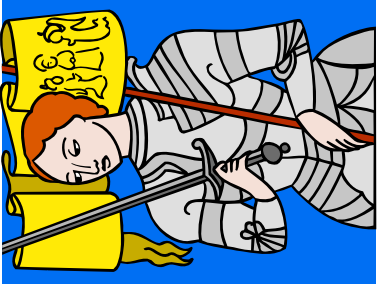
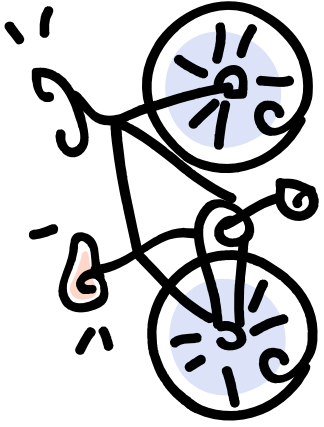


**LIGHT**  
**GENERATE**  
**LIGHT BULB**  
**CRANK/PEDAL**  
**ENERGY**  
**FILAMENT**



**HOLY PEOPLE**  
**SAINTS**  
**EXAMPLE**  
**ROLE-MODEL**

**KEY WORDS**  
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**LIGHT**

**HOLY PEOPLE**

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**EXAMPLE**

**CRANK/PEDAL**

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