

**C.E.S. FOUNDATION**  
2010-2011 Mini-grants for C.E.S. Programs

Check which goal applies:

Curriculum   x        Special Education Services       

Project Title: **Please Get the Moon for Me**

Please respond with brief, typed paragraphs. Limit your responses to no more than three pages.

**1. Describe the project.**

Fifth grade students will develop an understanding of how the moon changes shape during its monthly phases. Students will be introduced to the changes of the moon with the poetic work of fiction, *Rise of the Moon*. Students will develop questions about the effects of the moon in their moon journals. They will observe and note the changing moon during one month and they will model the changing moon in the classroom. Further reading includes *The Moon Book* and *Papa, Please Get the Moon for Me*. A field trip to the Discovery Museum Planetarium will illustrate the changes in the night sky, giving context to the role of the moon, the sun and other stars, as well as the planets.

**2. Describe the need for the project in your program.**

This project is needed to address CT Science Framework standard:

**5.3 - Most objects in the solar system are in a regular and predictable motion.**

*The positions of the Earth and moon relative to the sun explain the cycles of day and night, and the monthly moon phases.*

and Expected Performance standard:

**B 23 Describe the monthly changes in the appearance of the moon, based on the moon's orbit around the Earth.**

The mini-unit described in this grant proposal will also address several inquiry standards within the CT Science Framework.

**3. Describe the nature of the student population to be served by the project.** A diverse group of forty 5th grade students.

**4. List the major student learning objectives of the project.**

The project includes the following grade level expectations for the **Earth in the Solar System Unit**, as well as **B Inquiry Standards** in the fifth grade science framework:

**GLE 2.** Construct models demonstrating Earth's rotation on its axis, the moon's revolution around the Earth, and the Earth and moon revolving around the sun.

**GLE 3.** Distinguish between the sun as a source of light and the moon as a reflection of that light.

**GLE 4.** Observe and record the moon's appearance over time and analyze findings to describe the cyclical changes in its appearance from Earth (moon phases).

**GLE 5.** Relate the moon phases to changes in the moon's position relative to the Earth and sun during its 29-day revolution around the Earth.

- B INQ.1** Make observations and ask questions about objects, organisms and the environment.
- B INQ.2** Seek relevant information in books, magazines and electronic media.
- B INQ.3** Design and conduct simple investigations.
- B INQ.4** Employ simple equipment and measuring tools to gather data and extend the senses.
- B INQ.5** Use data to construct reasonable explanations.
- B INQ.6** Analyze, critique and communicate investigations using words, graphs and drawings.
- B INQ.7** Read and write a variety of science-related fiction and nonfiction texts.

**5. Describe the instructional strategies to be used and the related student activities.**

Six class sessions will be needed for this project. Instruction will use the 5E Instructional model for teaching elementary science.

One month before Day 1. **Engage** with read aloud of *Rise of the Moon*. **Explore** with Moon Journal.

Days 1 & 2. **Explain** with Moon Survey, moon modeling, and read aloud of *The Moon Book*.

Day 3. **Elaborate and Evaluate** with *Papa, Please Get the Moon for Me* retelling.

Day 4. **Evaluate** with Moon Phases Quiz.

Day 5. Field trip to the Discovery Museum and Planetarium to see the night sky with constellations, planets and the moon, thereby giving a context to the moon's location. Students will build a telescope to get a better view of the moon.

6. **Outline the timeline for the project.** (The project must be completed within one year. Projects completed in the spring will be presented to the Board of Directors in the fall. Projects completed in the fall will be presented to the board of Directors in the spring.)

**December:** Carmen meets with Christie and Lauren to plan the activity and determine if time extra time is needed for professional development. Field trip reservations for museum and bus are made. Books are ordered.

**February 4th:** Staff PD Day. Time is allocated to plan and prepare for the **Please Get the Moon for Me** mini-unit that will be part of the larger Earth in the Solar System unit.

**First week of March:** Start of Earth in the Solar System unit. One month before Day 1. **Engage** with read aloud of *Rise of the Moon*. **Explore** with Moon Journals.

**Fourth week of March:** Please see activities for Days 1 -5, described above.

7. Describe what you believe the long-term benefits of this project will be for your students.

Students will learn the value of long term observations and data collection. They will also understand the usefulness of model-building for large, hard-to-visualize systems such as our Earth-Moon-Sun System. Finally, students will find a link between poetry, fiction and nonfiction as they find connections between literary works and natural phenomena.

8. Describe the method of evaluation will you use to determine the success of the project.

Moon Journal, Moon Survey, The Moon Book, Phases of the Moon, *Papa, Please get the Moon for Me* retelling book, Moon Phases Quiz

9. Budget Amount requested \$ 750.00

Please detail your budget request. The budget may not exceed the maximum amount available for each grant award.

List all known or estimated expenditures for materials/equipment/services.

Nature of expenditure	Amount Requested
2 copies of Papa, <i>Please get the Moon for Me</i> by Eric Carle	\$10.00
2 copies of <i>The Moon Book</i> by Gail Gibbons	\$15.00
2 copies of <i>Rise the Moon</i> by Eileen Spinelli	\$25.00
Hands On Universe @ the Discovery Museum	\$560.00
School Bus	\$140.00
Total	\$750.00

10. Has this proposal previously received funding? Yes \_\_\_\_\_ No  X

If yes, please explain how this proposal expands the project previously submitted.