

# NHU/NASA Summer Institute

## Lesson Plan

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<b>Lesson Plan Title</b>	Planets
<b>Grade Level</b>	5 <sup>th</sup> grade
<b>Concept/Topic to Teach</b>	Planets
<b>Standards</b>	5.b. Students know that solar system includes the planet Earth, the Moon, eight other planets, and their satellites, and smaller objects such as asteroids and comets.
<b>General Goals</b>	Students research information about their specific planet and present to the class
<b>Specific Objectives</b>	Students find specific information about their planet using library or internet. Students learn to type their information. Students learn to organize their information on a poster and then students learn how to give a presentation about their research.
<b>Required Materials</b>	Book about different planets, poster paper, scissors, glue, markers, pictures from books or Internet, access to internet
<b>Anticipatory Set</b>	Tell students that they will be doing research about planets. Tell them that they will be expected to do research about their chosen planet using both books and Internet. Tell students that after that they will have to make a poster to present their information. Show students an example of poster.
<b>Step-by-Step Procedures</b>	<ol style="list-style-type: none"><li>1. Introduce the planets to students.</li><li>2. Give students some time to decide which planet</li></ol>

	<p>they want to do research about.</p> <ol style="list-style-type: none"> <li>3. Give students an outline of information you would like to be included in the research</li> <li>4. Review the outline and explain to the students that not all the planets have all the information the outline is asking for.</li> </ol>
<b>Plan for Guided Practice</b>	<ol style="list-style-type: none"> <li>1. Show students how you did the research.</li> <li>2. Tell students to open one of their books and find a page that has many characteristics about their planet (eg. Rotation, distance from the sun and so forth).</li> <li>3. Tell the students to copy down that information in the appropriate place in the outline</li> <li>4. Show students where to find the bibliography information for any book</li> <li>5. Have the students record their first book on the bibliography page</li> <li>6. Show students that after they gather all their information, they will have to type that information</li> <li>7. Next, student will have to organize their information and few pictures on the poster</li> <li>8. Finally, students will have to present their research to the class</li> </ol>
<b>Plan for Independent Practice</b>	<ol style="list-style-type: none"> <li>1. Students find items about their planet and fill out the outline</li> <li>2. Students type up all the information they found on the computer</li> <li>3. Students will organize their information and pictures on the poster</li> <li>4. Teacher monitors students and answers any questions</li> </ol>
<b>Assessment (based on objectives)</b>	<ol style="list-style-type: none"> <li>1. Students need to complete the outline</li> <li>2. Students need to complete the bibliography page</li> <li>3. Students need put their information neatly organized on a poster</li> <li>4. Students make a presentation of their poster</li> <li>5. Students answer 4 reflection questions</li> </ol>
<b>Adaptations (ELL students or special populations)</b>	<p>ELL students or students with special needs can be accommodated in the following:</p> <ol style="list-style-type: none"> <li>1. Students can use more pictures and less words</li> </ol>

	<p>when presenting their information on the poster</p> <ol style="list-style-type: none"> <li>2. Students can do their research on Spanish</li> <li>3. Teacher or other peers assist the student to find information in the book and helping the student to know where to record it</li> <li>4. Students don't have to write as many details as the rest of the class</li> </ol>
<b>Extensions (for gifted students)</b>	<p>Gifted students can do the following:</p> <ol style="list-style-type: none"> <li>1. Students can be teacher's helper and help other students who need assistance</li> <li>2. Students can do more than one planet</li> <li>3. Students can help others do their research</li> </ol>

### **Outline for the Research**

**Name of your Planet:**

SPECIFIC INFORMATION ABOUT YOUR PLANET

**Distance from the Sun:**

**Which number planet it is:**

**Revolution:**

**Rotation:**

**Diameter:**

**Gravity:**

**Mass:**

**Atmosphere:**

**Planet in motion:**

**Moons or satellites:**

**Rings:**

OTHER IMPORTANT INFORMATION

**Unique discoveries:**

**Any future studies:**

**OTHER INTERESTING INFORMATION:**

1.

2.

3.

4.

## BIBLIOGRAPHY

\*Name of the book:

Author:

Publisher:

Year Published:

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Publisher:

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## **Reflection about Research Project**

**Finally, please answer the following questions:**

1. What did you learn from doing this research? (Be specific)
2. What was your favorite part about doing this research? (Be specific)
3. Would you recommend someone else do the same type of research? Why yes or why not?
4. Would you like to do more research like the one you just finished?