Houston Baptist University

**Department of Education and Kinesiology**

**Lesson Plan Format**

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**Subject:**   Science and Math                                             **Grade Level:** 3rd                         **Time Estimate:** 1-2 Class periods

**Unit:** Solar System

 **Topic:** Gathering Data and Creating Graphs

**Goal(s):** Students will use information gathered to create different graphs.

**Objective(s):** TLW: gather information and create graphs using Excel and then power point to display their findings.                                                                                       **TEKS:** 3.13A Collect, organize, record, and display data in pictographs and bar graphs where each picture or cell might represent more than one piece of data.

3.13B Interpret information from pictographs and bar graphs.

**Materials/Resources/Technology needs:** Internet, paper, pencil, and links provided by the teacher.

 <http://www.enchantedlearning.com/subjects/astronomy/planets/index.shtml>

<http://www.kidsastronomy.com/solar_system.htm>

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**Instructional Procedures**

Focusing Event:

 Teacher will review prior knowledge of planets and creating graphs.

Teaching/ Learning Procedures:

Teacher will inform the students that they will work in collaborative groups to collect data about the planets. Their options will be to research the distance from the sun for each planet, the number of Earth days in a year for each planet, the number of Earth hours in a day or the number of moons each planet has. The teacher will go over creating a graph in excel with the students. The students will be split into groups. Each group member will need to record the information found in their math notebook and create a graph to print to paste in their notebook but only one graph needs to go into a power point slide.

                        Formative Check (ongoing or specific):

The teacher will walk around and discuss findings with students.

                        Reteach (alternative used as needed):

As the teacher walks around she will ask questions and clear up any misconceptions.

Closure: After students have gathered all of their data they will use excel to input their information and create a graph to display their findings. They must choose the best graph to represent their findings.

Assessment/Summative Evaluation: Each group will present their graph and findings to the class using a power point slide presentation.

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Modifications/Notes:

As an extension activity the groups will come up with a question survey to collect data from classmates in third grade and create their own graph in excel. Possible survey questions could be: What was your favorite planet to study? If you could visit a planet which planet would it be?