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| **Topic:**Solar System*Planets* | **Class:**Science | **Date:**11/24/12 |
| **Standards:** | SC.E.1.2.4: The student knows that the planets differ in size, characteristics, and composition and that they orbit the Sun in our Solar System.SC.E.1.2.4.1: knows characteristics of Mercury, Venus, Earth, and Mars.LA.1.1.6.5: The student will relate new vocabulary to prior knowledge  |
| **Content Objective:**The students will use the textbook and a variety of planet books to complete the Plant Flip Book with 100% accuracy. | **Language Objective:*** The students will watch and listen to a video about the Solar System that uses the key vocabulary.
* The students will work in small groups and with other classmates to discuss and complete their Solar System Flip Book.
* Students will use the key vocabulary when discussing what they have learned.
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| **Key Vocabulary:****Planet –** large body of rocks or gasses**Orbit –** the path that a planet takes as it revolves around the sun.**Solar System –** the sun, the planets and their moons, and the small objects that orbit the sun. | **Materials: (supplementary and adapted)*** Solar System Song link:

<http://www.youtube.com/watch?feature=player_embedded&v=BZ-qLUIj_A0>* Science book
* Variety of books about specific planets
* Flip-book template pages
* Pencil
* Colored pencils
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| **High-Order Questions:**1. What is the Solar System? What planets are in the Solar System? (The Solar System is the sun, the planets and their moons, and the small objects that orbit the sun. The planets are: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.)
2. Are all of the planets in the Solar System the same? How do you know? (No, not all of the planets in the Solar System are the same. They are different sizes, colors.)
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| **Time**:10 -15 minutes15 – 20 minutes20 -25 minutes | **Activities****Building Background:**To begin the lesson the teacher will show the students a video with a song about the Solar System. After watching the video the students will discuss what they heard during the video and make connections to the previous lesson. The teacher will ask the students the Higher-Order Questions during the discussion. *Links to Experience*Students will then begin working on a read, group, and share to create their Solar System Flipbook. To begin the students will be split into 8 groups and each group will be sent to a specific planet center. In the center the students will have 5 minutes to work independently with the books to find information about the center’s planet. The students will then have 10 minutes to work with the group at their center to share and gather more information. The information will be recorded into their Solar System Flip Book. *Links to Learning:*The students will then have 20 -25 minutes to meet with peers from different planet centers to learn about the different planets and complete their Solar System Flipbook. Students can only learn about one planet per peer, and the students can only share information about planets that they research with their small group.*Key vocabulary:***Planet –** large body of rocks or gasses**Orbit –** the path that a planet takes as it revolves around the sun.**Solar System –** the sun, the planets and their moons, and the small objects that orbit the sun. |
|  | **Student Activities** (Highlight activities applied in this lesson)***Scaffolding:*** Modeling Guided Independent***Grouping:***  Whole Class Small Group Partners Independent***Process:***  Reading Writing Listening Speaking***Strategies:*** Hands-On Meaningful Links to Objectives |
| 3-5minutes | **Review and Assessment**Individual Group Written Oral* The students will be informally assessed during the small group discussion. Student should be using key vocabulary terms during discussion.
* The students will be assessed on the completion of their Solar System Flipbook.

*Review Key Vocabulary:* The teacher will discuss new vocabulary terms and use the words often in discussions with the students. The teacher will also encourage the students to use their key vocabulary terms during the discussions and peer teaching. *Review Key Content Concepts:*At the end of the lesson the students will be asked the Higher Order questions again to see how their answers may have changed, |
| **Extensions**: | The students will be able to use their Solar System Flipbook during other activities during the Solar System Unit. |
| **Books Used:** | Science – Florida EditionGrades: 1-3Harcourt School Publishers2007ISBN: 0-15-343730-8 | Various National Geographic books about the Planets.  |

