

## Space Circles



### A. Objectives:

Students will listen to a book read aloud.

Students will calculate diameters and radius of given planets as the book is read.

### B. State Competencies:

Standard 2: Number Sense-The student will demonstrate an understanding of the basic concepts and properties of real numbers.

Standard 3: Number Operations

2. Whole Numbers and Decimals

b. Divide whole numbers and decimal numbers with 1 or 2 digit multipliers.

### C. Lesson Resources:

The book **Space Circles** by Kerri O'Donnell



### D. Instruction:

a. Introduction:

This lesson is to introduce the concept of radius and diameter. The introduction to the lesson will be done with the questioning to the students of what radius and diameter is. I do not expect my students to know this concept, but they may surprise me. I will have previously put sticky notes in the book where the author does the math calculations for the radius and diameter for the given planets. I will tell the students that after we read the book, they will know what radius and diameter of a circle is.

b. Instructional Process:

- 1.) To continue the lesson, I will read the book **Space Circles** by Kerri O'Donnell
- 2.) As we read the book, we will do the calculations of finding the radius and diameters of the planets. Each student will do the calculations as we go.
- 3.) The first couple of calculations will be done as a class, then as we continue in the book, I will allow independent work.

c. Closure:

The closure to the lesson will be done with a review of both the concepts of radius as well as diameter. Also, we will review the calculation process of division by two to arrive at the measure of the radius with a given diameter.

- E. **Assessment:** Students will be assessed informally through their independent calculations and the manual calculations they will do on a piece of paper. I will also monitor by walking around the room.

F. **Modifications/Accommodations**

Low Level: I will do class examples on the board as a visual reference. I will monitor their independent work in order to check their progress.

Upper Level: They will be given the opportunity to derive their radiuses independently.

**Reflection:**

This lesson turns out ok. The reason I say ok is because I got kind of bored towards the end of it. It was a lot of repetitive tasks. The kids did not seem bored because they showed way more enthusiasm for the subject. They knew so much information about the planets. We talked about Pluto not classified as a planet and other interesting facts.

I would read this book again. I just do not think I would have them do all the problems in the book. I believe next time I will do every other problem.