**Vocabulary Acquisition Lesson Plan**

**Author:** Erin Davis

**Date Created:** 04/23/2014

**Subject(s):** Math 1

**Topic or Unit of Study (Title):** 1.3 Real Numbers

**Grade Level:** 9th – 10th grades

***Materials:*** pencil, notebook paper, Prezi presentation, The Real Number System

**Summary (*and Rationale*):** The real number system is important for students to understand in order to be successful in their math careers. Students must be able to identify each subset of real numbers and understand the differences and similarities between them.

**I. Focus and Review (Establish Prior Knowledge):** [15 minutes]

Step 1: Pretest Students on Vocabulary words (Spelling and Definitions)

|  |  |
| --- | --- |
| 1. square root
 | 8. rational numbers |
| 1. radicand
 | 9. natural numbers |
| 1. radical
 | 10. whole numbers |
| 1. perfect square
 | 11. integers |
| 1. set
 | 12. irrational numbers |
| 1. element of a set
 | 13. real numbers |
| 1. subset
 | 14. inequality  |

**II. Statement of Instructional Objective(s) *and Assessments*:**

|  |  |
| --- | --- |
| **Objectives** | **Assessments** |
| *When presented with the vocabulary words students will be able to understand and interpret the differences and similarities in real numbers correctly 8 out of 10 times.*  | Students will be complete the Real Number System worksheet with 80% accuracy showing their understanding of the real number system.  |

State the objective: [1 minute]

Assessment: [no additional time needed]

**III. Teacher Input (Present tasks, information and guidance):**  [time]

Step 2: Discuss the Invented Spellings and Hypothesized Meanings

* Use examples for the students pretest without stating the student’s name and talk about why they choose that spelling and definition.
* State that each definition and spelling reflects some knowledge of the ideas and words that represent them.

Step 3 & Step 4: Use Prezi to show patterns and meaning of the vocabulary word.

<http://prezi.com/kknsftr6-lka/?utm_campaign=share&utm_medium=copy>

***IV.* Closure (Plan for maintenance):** [time]

Step 5: Evaluate and Posttest

Real Number Basketball

1. Separate the class into 4 teams of 4.
2. Set up 5 buckets and label them rational numbers, integers, whole numbers, natural numbers, and irrational numbers.
3. I will show a number on the board and they will have to throw a paper ball into the labeled bucket that the number belongs to.
4. Each student will get a chance to play. The team must come up with an order for the student to go in.
5. At the end of the game the team with the most points will get 5 bonus points on their next test.

***V.* Independent Practice:** [homework]

Students will complete the Real Number System Worksheet for homework.

**STANDARDS:**

* CCSS.Math.Content.HSA.SSE.A.1.a
Interpret parts of an expression, such as terms, factors, and coefficients.
* HS.TT.1.2

Use appropriate technology tools and other resources to organize information

**Plans for Individual Differences:**

Guided notes will be used during this lesson to help all students organize the information learned in this lesson. Included in the guided notes is also a graphic organizer that will help all students differentiate between the different subsets of the real number system.

**References (APA style):**

Charles, R. I., Hall, B., Kennedy, D., Bellman, A. E., Bragg, S. C., Handlin, W. G., . . . Wiggins, G. (2011). *Algebra I.* Upper Saddle River: Pearson Education, Inc. .

Patel, R. (2013, 09 26). *Real Number*. Retrieved from Prezi: http://prezi.com/hjehqra07r4e/real-number/