

Lesson Prepared by: Amanda Dennis

Lesson: Words into Expressions

Length: 35-45 minutes

Age or Grade Intended: 4th grade

Source: Mr. Adam Dennis

Academic Standard:

4.3.1 Use letters, boxes, or other symbols to represent any number in simple expressions, equations, or inequalities (i.e., demonstrate an understanding of and the use of the concept of a variable).

Performance/Behavioral Objective:

After a class lecture on words into expressions, students will use variables to write expressions.

Assessment:

Teacher will collect class work and assess student responses during the lesson.

Advanced Preparation by Teacher:

Teacher will prepare handouts and posters for students.

Introduction/Motivation:

Teacher will start with a review of previous days. (Order of Operations) Teacher and students will then go over the morning math, asking for volunteers to come to the front and walk the class through the problems. This will lead into today's lesson on words into expressions. When doing a word problem what is the first thing we do (Bloom's Knowledge)? Exactly we have to figure out what the problem wants us to discover. When reading word problems it is important to look for key words that will help us determine what to do. So today we are going to take some time to classify some of those key words that will help us.

Step-by-Step Procedure:

- Hand each student a card and as a class discuss under which procedure we think it belongs (Logical Mathematical). Then allow the student to get up and hang it under the appropriate procedure. (Bodily Kinesthetic)
- After each card has been placed hand out a problem solving worksheet.
- Explain to students that today we are going to be working with variables. Does anybody know what a variable is (Bloom's Knowledge)? It is a letter that we use to represent information we do not know. Give students an example.
- Then ask students to get out 4 different colored pencils or crayons. (Teacher will determine the colors to be used for each procedure)
- Go through the problems together as a class underlining with the appropriate color the key words, which tell the students which procedure to use. (Bodily Kinesthetic)

Closure:

After completion of the class worksheet, have student helper collect papers. Then pass out homework. Explain the directions and have students take a minute to underline with appropriate color the key words that they find. Then have them put their homework in their bulldog folders and prepare for health.

Accommodations/Enrichments:

Read word problems aloud for identified students.

If appears to be necessary make individual charts of key words for students.

For students that are excelling encourage them to create their own problems, and then explain the answer.

Reflection: