

Name: Heidi Nunley

Grade Level/Subject: 8th Math

Topic: Order of Operations Foldable

Objectives (P.A.S.S.): Standard 2.1b - Use the basic operations on rational numbers to solve problems in real-life situations.

Introduction: The teacher will review the order of operations with the students using "Please Excuse My Dear Aunt Sally."

Instructional process: The students will create a foldable to help them solve problems using the order of operations. The teacher will give the students directions (attached) to make the foldable. This is one of the easier foldables for 8th graders. As the teacher discusses the foldable he/she should give examples of where each component can be used and why it is important. The students will then be able to use their foldables on daily work.

Closure: The teacher will review the terms that should be on the students' foldable to make sure that they have all of the important information. If time permits, the teacher will let the students use their foldables to work some word problems either on the board or in their notebooks.

Assessment: The teacher will grade each foldable by ensuring that each student has all of the important information listed on the foldable instructions. The student must have all of the information, so the teacher will have the students add information if needed to get credit for the foldable.

Modifications/Accommodations: The teacher will provide an ELL student with a Spanish/English math reference book to aide in the communication of the concepts. A gifted student will be allowed to work at a faster pace on the foldable by following the instructions and they will be allowed to decorate the foldable when they are finished.

Reflection: All of the students liked doing the foldable and have used it on their homework. It has helped reinforce the order of operations concept and students are using the foldable less and less because they have mastered the concept.

FOLDABLE – ORDER OF OPERATIONS

MATERIALS: 8 ½ x 11 square colored paper, scissors, markers, cm ruler, long ruler

STEP 1: To find center of paper line up ruler with 2 opposite corners; make a short mark in center area. Line up other two opposite corners and make a short mark in the center area.

STEP 2: Fold each corner to the center.

STEP 3: On OUTER FLAP

1. Order of Operations along fold of each flap
2. Number 1,2,3,4 on right angle of each flap
3. Write P, E, M/D, A/S on appropriate flap
4. Draw or glue on arrows

STEP 4: Under the flap

1. Name each order of operation
2. Define the operation
3. Give an example

STEP 5: Underneath side of the flap

1. Acronyms for PEMDAS on each flap
2. Decorate

STEP 6: Put name, class period, and date on back