

WDES POWER MATH STANDARD

FA L3-5

Students can demonstrate understanding of the order of operations, including the use of parentheses, brackets, braces, and exponents to evaluate numerical expressions.

Home or SCHOOL Learn	Home or SCHOOL Practice It	Information for For Parents
<p>Make sure to take a copy of the <u>ESSENTIAL VOCABULARY FOR STANDARD FA L3 - 5</u> from the file.</p> <p style="text-align: center;">FA L5</p> <p>Write & Evaluate Expressions Involving Whole Number exponents Must See <u>1st two videos</u></p> <p>Exponential Notation Must See video</p> <p>Introduction to Exponents video</p> <p>Introducing Exponents pdf</p> <p style="text-align: center;">FA L3 & FA L4</p> <p>Introduction to the Order of Operations Must See video</p> <p>Evaluating Expressions Practice Problems slideshow</p> <ul style="list-style-type: none"> • Introducing Exponents Whole Class Activity <p>Use Parentheses & Interpret & Evaluate Expressions with Parentheses</p>	<p style="text-align: center;">FA L5</p> <p>REQUIRED - Exponents Task Cards <i>(in folder)</i></p> <p>REQUIRED - Exponents Pamphlet <i>(in folder)</i></p> <p>Exponents Worksheet 1 <i>(in folder)</i> Exponents Worksheet 2 <i>(in folder)</i> Exponents Worksheet 3 <i>(in folder)</i> Exponents Color Page <i>(in folder)</i></p> <p>Exponents Tic Tac Toe 1 <i>(in folder)</i> Exponents Tic Tac Toe <i>(in folder)</i> (Played with a partner)</p> <p style="text-align: center;">FA L3 & FA L4</p> <p>REQUIRED - Create your Interactive Math Notebook "Parentheses (), Brackets [] & Braces { }." <i>(in folder)</i></p> <p>Simplify Expressions Using Order of Operations & Parentheses <i>(online)</i></p> <p style="text-align: center;">THE ORDER OF OPERATIONS GAME <i>(online)</i></p>	<p>Essential vocabulary for this standard includes: <u>parenthesis</u>, <u>exponents</u>, <u>expression</u>, <u>evaluate</u>, <u>variable</u>, <u>brackets</u>, <u>base</u>, <u>power</u>. Use online dictionary: www.amathsdictionaryforkids.com or visual math dictionary: www.mathematicsdictionary.com/math-vocabulary.html</p> <p style="text-align: center;">FA L5</p> <p>Write and evaluate numerical expressions involving whole-number exponents.</p> <p style="text-align: center;">FA L5 Examples</p> <ol style="list-style-type: none"> 1. $2 + 3[5 + (4 - 1)^2]$ 2. 9^6 is easier to write and read than $9 \times 9 \times 9 \times 9 \times 9 \times 9$

Must See *video*

Order of Operations *Must See video*

Order of Operations Word Problems

Order of Operations (Word Problem)
Must See video

Order of Operations - A Word Problem
Written as an Expression with
Parentheses, Brackets, and Braces *Must
See video*

ORDER OF OPERATIONS		
1st	P	Parentheses
2nd	E	Exponents
3rd	M	Multiply or
	D	Divide from left to right
4th	A	Add or
	S	Subtract from left to right

Espresso Basic Level (*online*)
Espresso Moderate Level (*online*)
Espresso Advanced Level (*online*)

REQUIRED - PEMDAS

Pool Party Task Cards

Complete the cards followed by comparing
your answers to a neighbor. Discuss any
answers that are different to come up with
the correct responses.
(*in folder*)

Order of Operations Questions (*online*)

Khan Academy Expressions with
parentheses (*Online*)



- *online*

[View Lesson](#)

[Tractor Race](#)

[Match Game](#)

[Chicken Volleyball](#)

Order of Operations Four! (*online*)



ONLINE CALCULATOR

(or you may use a classroom calculator)

Math Frog Order of Operations (*online*)

Order of Operations Worksheet (*in folder*)

PEMDAS Maze (*in folder*)

PEMDAS Puzzle 1 (*in folder*)

FA L3 & FA L4

When evaluating expressions, it is necessary
to use the order of operations. The order of
operations is a convention that standardizes
how we evaluate expressions. Students need
to discover that the following is the order:

1. **P**arenthesis (Grouping symbols)
2. **E**xponents
3. **M**ultiplication & **D**ivision (left to right)
4. **A**ddition & **S**ubtraction (left to right)

PLEASE
EXCUSE
MY
DEAR
AUNT
SALLY

Work in order: Top down

Parentheses
() { } []

Exponents

Multiply

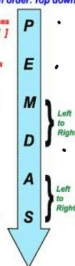
Divide

Add

Subtract



$$\begin{aligned} & 20 \div (13 - 11)^2 \\ & = 20 \div 2^2 \\ & = 20 \div 4 \\ & = 5 \end{aligned}$$



	<p>PEMDAS Puzzle 2 <i>(in folder)</i> PEMDAS Code Breaker <i>(in folder)</i> PEMDAS Match It Up! <i>(in folder)</i></p>	
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