writing and interpreting Nume	encal Expressions
Overarching Student Learning Goals In this unit, your child will work to build an understanding of the following:	Resources/Tasks to support your child at home.
Evaluate expressions using order of operations	Florida Student Tutorial: The Great Expression Debate -
• Students refine their understanding of working with grouping symbols (parentheses, brackets, or braces) and understand they should work	https://bit.ly/2Sy9iGW
with operations within grouping symbols first $1 + (2 \times 3)$ = 1 + 6 = 7 = 9	• NCTM Game: Primary Krypto - <u>https://bit.ly/2xMNXjB</u>
• Students also learn about the conventions of mathematics in regard to	Khan Academy: Evaluating Expressions with Parentheses -
an order of working with related operations: work with division and/or	https://bit.ly/2GweEMx
subtraction from left to right first, then work with any addition and/or	 LearnZillion: Work with Expressions that have Parentheses https://bit.lv/2WK2a9E
• Example: Which model shows using multiplication first to evaluate 4×5+2?	Thinking Blocks Game: Operations Exhibit -
 How could we add parentheses to match the other model? 4×(5+2) 	https://bit.ly/2EuCGqP
Write or identify a numerical expression given a mathematical word	• Florida Student Tutorial: Expressions – Not Just for Faces -
phrase	https://bit.ly/2BhpvX9
• Given a mathematical phrase, such as "the sum of 24 and 36 divided by	
3", students can write or identify the matching expression. $(24 + 36) \div 3$	Khan Academy: Constructing Numerical Expressions -
• Example: Write a numerical expression to match the following situation: lack caught 15 small bass and Darrell caught 12 small bass in a fishing	https://bit.ly/2GbHX7v
tournament. They threw 5 back into the water. $(15 + 12) - 5$	LearnZillion: Write a Numerical Expression to Represent a

Writing and Interpreting Numerical Expressions

 Translate a numerical expression into a mathematical word phrase Students must also be able to read or translate a numerical expression using mathematical language Example: (10÷2)-3 can be interpreted as divide 10 by 2, then subtract 3 	 Khan Academy: Translating Expressions - <u>https://bit.ly/2SvygGL</u> LearnZillion: Represent a Real-World Situation with an Expression - <u>https://bit.ly/2DVQmK7</u> Real World Situations: Write a numerical expression that represents the situation below: I served 6 tables and received \$8 in tips per table, one of the tables gave me an additional \$7 for doing such a great job. (6 x 8) + 7
 Compare two related expressions without evaluating them Students can reason and explain how including additional steps might change or affect expressions Students can reason and compare two related expressions without having to solve Example: this picture represents 7+4 Draw a picture that represents 3×(7+4) Describe the comparison between 3×(7+4) and 7+4 	 Ask children to compare two related expressions, but without evaluating or solving for the value: How does the expression 5(10 x 10) relate to 10 x 10? Possible response: The expression 5(10 x 10) is 5 times larger than the expression 10 x 10 since I know that I that 5(10 x 10) means that I have 5 groups of (10 x 10).

For more information on the learning goals and your child's progress, please contact your child's teacher.