Unit 2 – Algebraic Expressions: Sample Unit Outline

	TOPIC	HOMEWORK
DAY 1	Translating Expressions	HW #1
DAY 2	Combining Like Terms	HW #2
DAY 3	Distribute & Combine Like Terms (Simplifying Expressions)	HW #3
DAY 4	Factoring Linear Expressions	HW #4
DAY 5	**Quiz 2-1**	None
DAY 6	Add, Subtract, and Multiply Monomials (Product Rule)	HW #5
DAY 7	Divide Monomials (Quotient Rule)	HW #6
DAY 8	Powers of Monomials (Power Rule)	HW #7
DAY 9	Review all Exponent Rules	HW #8
DAY 10	**Quiz 2-2**	None
DAY 11	Operations with Scientific Notation: Multiplication & Division	HW #9
DAY 12	Operations with Scientific Notation: Addition & Subtraction	HW #10
DAY 13	**Quiz 2-3**	None
DAY 15	Intro to Polynomials/Adding & Subtracting Polynomials	HW #11
DAY 16	Unit 2 Review	Study for Test
DAY 17	**UNIT 2 TEST**	None
Note: Zero and negative exponents are incorporated throughout days 6-8. This topic was introduced in Unit 1 (The Real Numbers) of my Pre-Algebra Curriculum.		

See sample images of the pages on the next page.

WORD SPLASH

Directions: (1) Group the words/phrases together by **common themes**.
(2) On a piece of paper, create a **visual** to organize the phrases.
(Mappings, webs, outlines, etc.)
(3) Use **color** to organize the themes. **Include pictures or symbols**.
(4) Add more terms!

PLUS

OF

double

HALF

sum

decreased by

minus

less than

TIMES

all together

PER

separated into

TOTAL

product

difference

increased by

divided by

TWICE

quotient

subtracted from

Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples
Key Words & Phrases	**ADDITION ✚** • _____ • _____ • _____ • _____ • _____ • _____ **SUBTRACTION ▬** • _____ • _____ • _____ • _____ • _____ • _____
	MULTIPLICATION ● • _____ • _____ • _____ • _____ • _____ • _____ **DIVISON ╱** • _____ • _____ • _____ • _____ • _____ • _____

| **"Turn Around" Phrases** | **Watch out for subtraction!**

Phrases like _____ and

_____ indicate that you need to reverse the order! |

Examples

Directions: Translate each expression.

	Words	Expression
1.	"five more than a number"	
2.	"the quotient of a number and -2"	
3.	"twice a number"	
4.	"a number decreased by 7"	

	5.	"the product of a number and twelve"	
	6.	"three subtracted from a number"	
	7.	"earning $15 per hour"	
	8.	"$5 less than the cost of the ticket"	
	9.	"the sum of a number and 24"	
	10.	"50 markers divided among several students"	
	11.	"two-fifths of a number"	
	12.	"half a number minus nineteen"	
	13.	"11 less than the product of a number and -4"	
	14.	"the total of eight times a number and five"	
	15.	"the difference of a number squared and 14"	
	16.	"three-fourths of a number plus 17"	

Going Backwards...

Directions: Write each expression in words.

		Words	Expression
	17.		$n - 9$
	18.		$\dfrac{p}{8}$
	19.		$-5x$
	20.		$k + 10$
	21.		$\dfrac{1}{3}m$
	22.		$\dfrac{a}{2} - 30$
	23.		$-7n - 1$
	24.		$2y + 13$

Name: _____

Date: _____ **Per:** _____

Directions: Translate each expression.	
1. "the product of a number and negative 8"	**2.** "a number increased by thirty-five"
3. "two-fifths of a number"	**4.** "the quotient of a number and 4"
5. "18 less than a number"	**6.** "24 hours per day"
7. "the total for parking and an admission ticket"	**8.** "$3 subtracted from the cost of book"
9. "the sum of twice a number and 15"	**10.** "the difference of a number squared and 6"
11. "half of a number decreased by 27"	**12.** "10 more than a number divided by -8"
13. "9 less than the square root of a number"	**14.** "-4 times a number plus 29"
15. "25 decreased by the product of number and 3"	**16.** "7 points more than twice the number of points scored by the other team"

Directions: Give two different ways to write each expression in words.		
17. $\dfrac{x}{-7}$	**a)** _____	
	b) _____	
18. $-4n$	**a)** _____	
	b) _____	
19. $\dfrac{k}{3}+16$	**a)** _____	
	b) _____	
20. $2a-18$	**a)** _____	
	b) _____	