Overview of Week: Feb. 3-7   Algebra 1B

Monday - Section 6.1   Properties of Exponents continue practice.

- Review online assignment from homework. SB#4
- https://cdn.kutasoftware.com/Worksheets/Alg1/Properties%20of%20Exponents.pdf

Tuesday - Complete various problems off handouts taken from these worksheets ---

- https://cdn.kutasoftware.com/Worksheets/Alg1/More%20Properties%20of%20Exponents.pdf
- https://www.paulding.k12.ga.us/cms/lib/GA01903603/Centricity/Domain/2557/01%20-%20Properties%20of%20Exponents%20Worksheet.pdf
- https://heiligenbergmath.weebly.com/uploads/6/2/8/6/6286766/algebra_1_-_exponent_practice.pdf

Wednesday - QUIZ on Section 6.1 and start FIREFLY Benchmark TEST

Thursday - Continue FIREFLY Benchmark Test

Friday - Continue work on Benchmark Test then Begin work on Chapter 7 Section 1 Adding and Subtracting Polynomials using the self made notes off video examples 1-5 off dynamic classroom.

Week Objective: Textbook & State Keystone Eligible Content

Section 6.1: Properties of Exponents

Common Core State Standards: N.RN.A.2
Learning Target: Write equivalent expressions involving powers.
Success Criteria
- Explain the meanings of zero and negative exponents.
- Evaluate and simplify expressions involving zero and negative exponents.
- Simplify expressions using properties of exponents.

MODULE 1—Operations and Linear Equations & Inequalities   **FINAL—April 2014**

Anchor Descriptor		Eligible Content		PA Core Standards
A1.1.1.3	Use exponents, roots, and/or absolute values to solve problems.	A1.1.1.3.1	Simplify/evaluate expressions involving properties/laws of exponents, roots, and/or absolute values to solve problems. Note: Exponents should be integers from −10 to 10.	**CC.2.1.HS.F.1** Apply and extend the properties of exponents to solve problems with rational exponents. **CC.2.1.HS.F.2** Apply properties of rational and irrational numbers to solve real-world or mathematical problems. **CC.2.2.8.B.1** Apply concepts of radicals and integer exponents to generate equivalent expressions.

Sample of Notes from section 7.1

A **monomial** is a number, a variable, or the product of a number and one or more variables with whole number exponents.

The **degree of a monomial** is the sum of the exponents of the variables in the monomial. The degree of a nonzero constant term is 0. The constant 0 does not have a degree.

Monomial	Degree
10	0
$3x$	1
$\frac{1}{2}ab^2$	$1 + 2 = 3$
$-1.8m^5$	5

Not a monomial	Reason
$5 + x$	A sum is not a monomial.
$\dfrac{2}{n}$	A monomial cannot have a variable in the denominator.
4^a	A monomial cannot have a variable exponent.
x^{-1}	The variable must have a whole number exponent.

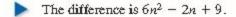**EXAMPLE 5** **Subtracting Polynomials** WATCH

Find $(4n^2 + 5) - (-2n^2 + 2n - 4)$.

SOLUTION

Vertical format: Align like terms vertically and subtract.

$$
\begin{array}{r}
4n^2 \quad\quad + 5 \\
- \ (-2n^2 + 2n - 4) \\
\end{array}
\quad\Rightarrow\quad
\begin{array}{r}
4n^2 \quad\quad + 5 \\
+ \ 2n^2 - 2n + 4 \\
\hline
6n^2 - 2n + 9 \\
\end{array}
$$

▶ The difference is $6n^2 - 2n + 9$.

Overview of Week: Jan 27-31

Monday - Section 6.1   Properties of Exponents

     Notes: Front Page Blank for Summary on new notebook of RULES of EXPONENTS with 1 example for each

     2nd Blank Page - write notes down from video examples off dynamic classroom

        to mimic the FID lessons online option but in relation to this sections objectives.

Tuesday - Practice with notebook by Inserting pg. 101 Soft Practice Book and use as examples with work on paper. Complete # 1-14 then progress online to self assessment 1-9 from example 1,2

Wednesday - Practice with 6.1 PRACTICE online with problems written in notebook also.

Thursday - Practice Kuta Worksheet https://cdn.kutasoftware.com/Worksheets/Alg1/Properties%20of%20Exponents.pdf

Friday - Quiz on Section 6.1