

## Algebra Unit 7: Exponents and Radicals

**Universal Essential Question: Why is resilience an influence on success?**

**Essential Question: How does imbalance require resilience?**

<b>Learning Objectives</b>  At the completion of this unit, I should ...	<b>Self-Rating, evidence from my INB and practice papers</b>  0 – I have no idea. 1 – I cannot solve problems yet but I am beginning to understand the strategies 2 – I can solve problems but do not yet know why the math works. 3 – I understand why the math works and can solve most problems but still make mistakes. 4 – I understand why the math works and can consistently and accurately solve problems.		
<b>Know</b> – The properties of exponents – The properties of roots – Vocabulary associated with exponents and root			
<b>Be able to</b> – Write radical expressions as fractional exponents and vice versa. – Use the properties of exponents and/or roots to simplify expressions. – Apply properties of exponents and/or roots to solve real world problems. – Rationalize the denominator.			
<b>Understand</b> – The relationship between exponents and roots			

**Vocabulary of exponents and radicals**

Base	Exponent	Rational	Root
Index	Radical	Radicand	

## Reflection page

Areas of success for this unit and justification

Areas that need more practice and/or deeper understanding, justification, and specific goals to achieve complete mastery

How does the mathematics we studied in this unit relate to the content and universal essential questions? Be specific by providing evidence from your learning activities for the unit.