**Integrated II Unit 5: Exponents and Radicals**

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

**Essential Question: How does adaptation play a role in resilience?**

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| **Learning Objectives**  At the completion of this unit, I should … | **Self-Rating, evidence from my INB and practice papers**  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. | | |
| **Know**   * The properties of exponents * The properties of roots * Vocabulary associated with exponents and root |  |  |  |
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| **Be able to**   * 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. |  |  |  |
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| **Understand**   * The relationship between exponents and roots |  |  |  |

**Vocabulary of exponents and radicals**

Base

Exponent

Rational

Root

Index

Radical

Radicand

**Reflection page**

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| 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.