**Secondary II**

Unit 1 - Polynomials and Complex Numbers

***Form GR***

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| A.APR.1 I can multiply polynomials. |
| 1. Find the product.

$$-3x(2x^{3}+2x^{2})$$ | $$4x(3x^{2}-2x)$$ |
| A.APR.1 I can multiply polynomials. |
| 1. Find the product:

$$(3x-3)(3x+3)$$ | $$(2x-2)(3x+2)$$ |
| N.RN.1 I can simplify expressions using properties of exponents. |
| 3. Simplify:  |  |
| N.RN.1 I can simplify expressions using properties of exponents. |
| 4. Simplify:  |  |
| A.APR.1 I can add and subtract polynomials. |
| 5. Simplify: $$\left(3x^{2}-3x+5\right)-(-2x^{2}-3x-7)$$ | $$\left(2x^{2}-3x-8\right)+(-3x^{2}-3x-7)$$ |
| A.RN.2 I can extend the properties of integer exponents to rational exponents and use them to simplify expressions. |
| 6. Simplify:  |  |
| A.RN.2 I can extend the properties of integer exponents to rational exponents and use them to simplify expressions. |
| 7. Simplify: $$\sqrt{64ab^{6}c^{8}}$$ |  7$\sqrt{25xy^{3}z^{4}}$ |
| A.RN.2 I can extend the properties of integer exponents to rational exponents and use them to simplify expressions. |
| 8. Evaluate: |  |
| N.RN.3 I can simplify radical expressions. I can add, subtract, and multiply real numbers.  |
| 9. Solve for x.$$3\sqrt{5}+6\sqrt{5}=x$$ | $$5\sqrt{7}-\sqrt{7}=x$$ |
| N.CN.2 I can add, subtract, and multiply complex numbers. |
| 10. Find the product:$$-4i•2i$$ | $$-3i•-2i$$ |
| N.CN.2 I can add, subtract, and multiply complex numbers. |
| 11. Find the product:$$\left(3+2i\right)\left(4-i\right)$$ |  $(-2-3i)(5+4i)$ |
| N.RN.3 I can simplify radical expressions. I can add, subtract, and multiply real numbers. |
| 12. Calculate and simplify.$$2\sqrt{32}-5\sqrt{8}$$ |  $4\sqrt{18}+3\sqrt{8}$ |