

High School Weekly Lesson Plan Template Algebra 1 Yearlong Unit 0

Unit 0 Prerequisites for Algebra 1 curriculum	Course Name: Algebra I Modeling Unit Functions
Day 1	Day One - High Engagement Icebreaker Activity - Standards Aligned Lesson/Activity: Central Park is designed to help students make the transition from arithmetic to algebra. Arithmetic is for computation. Algebra makes the structure of our computations clear.
Day 2	Map Test
Day 3	Topic: The Real Number System LT: <ul style="list-style-type: none">● I can classify real numbers. SC: <ul style="list-style-type: none">● I can classify natural, whole, integer, rational, and irrational numbers.
Day 4	Topic: Add and Subtract Positive and Negative Numbers LT: <ul style="list-style-type: none">● I can add and subtract rational numbers. SC: <ul style="list-style-type: none">● I know that if you have two positive numbers and you add them you get more positive.● I know that if you have two negative numbers and you add them you get more negative.● I know that if you add a positive and a negative number you are really subtracting and keeping the sign of the number of larger absolute value.● I can add and subtract without using a calculator.

Day 5

Topic: Multiply and Divide Positive and Negative Numbers

LT:

- I can multiply and divide rational numbers .

SC:

- I know that when you multiply two positives the answer is positive.
- I know that when you multiply a positive and a negative the answer is negative.
- I can multiply integers without using a calculator.
- I can correctly use the order of operations to add, subtract, multiply and divide integers.

Day 6	Topic: Simplifying Radicals LT: <ul style="list-style-type: none">● I can simplify square roots. SC: <ul style="list-style-type: none">● I can do the prime factorization of integers.● I can find matching pairs of factors● I can take the number (of the pair) outside the radical and leave the leftover factor● I can memorize perfect squares.● I can simplify non-perfect square radicals.
Day 7	Topic: Simplifying Radicals LT: <ul style="list-style-type: none">● I can simplify square roots that involve variables. SC: <ul style="list-style-type: none">● I can do the prime factorization of integers.● I can find matching pairs of factors● I can take the number (of the pair) outside the radical and leave the leftover factor● I understand that to simplify the variables under the square root I must divide by two and take the whole number of the variable outside the root and leave the remainder under the root.● I can memorize perfect squares.● I can simplify non-perfect squares.

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Day 8	<p>Topic: Adding and Subtracting Radicals</p> <p>LT:</p> <ul style="list-style-type: none">● I can add and subtract radical expressions. <p>SC:</p> <ul style="list-style-type: none">● I can simplify radicals● I know that you can only add and subtract radicals that have like radicands.● I know that when you add radicals you only change the coefficient of the radicals. Never inside!!● I can add and subtract radicals with like radicands.● I can add and subtract radicals with unlike radicands.
Day 9	<p>Topic: Adding and Subtracting Radicals</p> <p>LT:</p> <ul style="list-style-type: none">● I can add and subtract radical expressions. <p>SC:</p> <ul style="list-style-type: none">● I can simplify radicals● I know that you can only add and subtract radicals that have like radicands.● I know that when you add radicals you only change the coefficient of the radicals. Never inside!!● I can add and subtract radicals with like radicands.● I can add and subtract radicals with unlike radicands.
Day 10	<p>Topic: Multiplying Radicals</p> <p>LT:</p> <ul style="list-style-type: none">● I can multiply radical expressions. <p>SC:</p> <ul style="list-style-type: none">● I can simplify radical expressions.● I know that when multiplying radicals you multiply the coefficients together and you multiply together what is under the

	<p>radical.</p> <ul style="list-style-type: none"> ● I can multiply and simplify radical expressions.
Day 11	<p>Topic: Multiplying Radicals</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can multiply radical expressions. <p>SC:</p> <ul style="list-style-type: none"> ● I can simplify radical expressions. ● I know that when multiplying radicals you multiply the coefficients together and you multiply together what is under the radical.
Day 12	<p>QUIZ</p> <p>Real Number System, add/sub rational numbers, multiply rational numbers, PEMDAS, simplifying radicals, rational/irrational numbers</p>
Day 13	<p>Topic: Combining Like Terms</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can identify the parts of an algebraic expression. <p>SC:</p> <ul style="list-style-type: none"> ● I can identify coefficients, variables, operations, constants. ● I can understand that like terms have the same power. ● I can write an expression in mathematical terms given a situation.
Day 14	<p>Topic: Combining Like Terms</p> <p>LT:</p> <ul style="list-style-type: none"> ● I can perform mathematical operations on polynomial expressions.

	<p>SC:</p> <ul style="list-style-type: none">● I can identify like terms.● I know that you can only add or subtract like terms.● I can add and subtract polynomial expressions.
Day 15	<p>Topic: Combining Like Terms</p> <p>LT:</p> <ul style="list-style-type: none">● I can perform mathematical operations on polynomial expressions. <p>SC:</p> <ul style="list-style-type: none">● I can identify like terms.● I know that you can only add or subtract like terms.● I can add and subtract polynomial expressions.
Day 16	<p>Topic: Multiplying Expressions</p> <p>LT:</p> <ul style="list-style-type: none">● I can multiply polynomial expressions. <p>SC:</p> <ul style="list-style-type: none">● I can set up the box and multiply on the diagonals● I can use my exponent rules to add exponents when I multiply like bases.● I can determine which terms get added together● I can multiply polynomial expressions.

Day 17	Topic: Multiplying Expressions LT: <ul style="list-style-type: none">● I can multiply polynomial expressions. SC: <ul style="list-style-type: none">● I can set up the box and multiply on the diagonals● I can use my exponent rules to add exponents when I multiply like bases.
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	<ul style="list-style-type: none">● I can determine which terms get added together● I can multiply polynomial expressions.
Day 18	Review for test
Day 19	Test