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| * The students will be able to answer the leading questions using their previous knowledge of right triangles and the Pythagorean Theorem. * The students will be able to define all of our key vocabulary, including “relation” and “function”. * The students will be able to determine if a set of data is a function or not using the vertical line test * The students will be able to identify and name parent functions from functions that have been translated. * The students will be able to graph the parent functions. * The students will be able to perform simple dilations and translations to parent functions. * The students will be able to recognize a shift and state what shift was made on the function. * In this lesson, the students will be able to define the composition of functions using not only words but the proper symbols. | * The students will be able to plug all of the information into the theorem and show all of the work to receive credit. * The students will correctly answer all of the five questions completely using the Pythagorean Theorem in order to pass. * The students will be able to correctly define a relation and a function and be able to tell the difference between the two in order to earn full credit. * The students will be given 5 examples and they must correctly determine at least 3 of the 5 to receive credit. * When given a function, the students will be able to correctly identify its parent function to receive full credit. * When given a function, the students will be able to fully graph each of the parent functions to receive full credit. * When given a worksheet of about 10 questions, the students will be able to correctly shift at least 7 parent functions to pass. * Students will be able to correct denote a dilation or translation on every problem for full credit. * The students will correctly define the composition of functions with words and symbols to receive full credit. |

Unit Plan Objectives