

**Mathematics
Transitional Mathematics**

Unit 1: Numbers and Number Sense

Essential Understandings	<ul style="list-style-type: none"> ▪ Estimating the answer to a problem helps mathematicians predict the reasonableness of a solution. ▪ Numbers can be grouped together in ordered sets.
Essential Questions	<ul style="list-style-type: none"> ▪ What are number sets? ▪ How do you estimate solutions? ▪ How do you order numbers? ▪ How do you round real numbers? ▪ How do you predict a reasonable solution?
Essential Knowledge	<ul style="list-style-type: none"> ▪ Whole numbers, integers, and rational numbers can be delineated as sets. ▪ Estimations of solutions can be given. ▪ Real numbers can be rounded to a specific place value. ▪ Numbers can be appropriately placed on a number line.
Vocabulary	<ul style="list-style-type: none"> ▪ <u>Terms:</u> <ul style="list-style-type: none"> ○ whole numbers, integers, real numbers, decimals, inequality symbols, estimate, number line
Essential Skills	<ul style="list-style-type: none"> ▪ Identify number sets. ▪ Estimate solutions to problems. ▪ Round decimal answers. ▪ Be able to generate a number line.
Related Maine Learning Results	<p><u>Mathematics</u> A. Number Real Number A1.Students will know how to represent and use real numbers.</p> <ol style="list-style-type: none"> a. Use the concept of nth root. b. Estimate the value(s) of roots and use technology to approximate them. c. Compute using laws of exponents. d. Multiply and divide numbers expressed in scientific notation. e. Understand that some quadratic equations do not have real solutions and that there exist other number systems to allow for solutions to these equations.
Sample Lessons And Activities	<ul style="list-style-type: none"> ▪ Students will orally respond to questions. ▪ Students will utilize white boards to demonstrate individual understanding of the concepts.
Sample Classroom Assessment Methods	<ul style="list-style-type: none"> ▪ Students will take a written quiz on each of the essential questions. ▪ Students will complete homework assignments.
Sample Resources	<ul style="list-style-type: none"> ▪ <u>Publications:</u> <ul style="list-style-type: none"> ○ <u>Saxon-Algebra 1/2</u>

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