Curriculum Map – Math 200 "Getting a *Head* for Rational Numbers"

Week	Topic	Content	Goal	Activities
1	Automaticity: Base 10 Understanding	Multiplying and dividing by 10, 100, 1000 Recognize Relationship between Multiplying/Dividing by 10, 100, 100 and Multiplying/Dividing by 1/10, 1/100, 1/1000	Students will have a deeper understanding of place value and of the relationships between values rather than just the values themselves.	Last Person Standing (1-10), Ordering Numbers, Counting Up & Down by 10's
2	Benchmarking Fractions, Decimals & Percents	What is a mid-point? What is a half? Practice using benchmark fractions (the spaces between whole numbers) 1/2, 1/4th & 1/8th and the corresponding decimals.	Students will develop a deeper understanding of 1/2 and develop **fluency** with all benchmark fractions and the corresponding decimals.	Last Person Standing (1-10 & finding ½ in 5 steps), POW: Finding midpoints and ½ of numbers, Automaticity Games (quick draw, 24, etc.), I'm Thinking of a Number (midpoints)
3	Benchmarking Fractions, Decimals & Percents	What is 12.5% of 200? Practice using benchmark fractions and the corresponding decimals and percents to solve number sentences and word problems.	Students will develop: • **fluency with counting -fractions ½, ¼, and ¾,** • strategies for using benchmarks to order numbers, estimate their magnitude, and solve (estimate) problems.	Last Person Standing (finding ½ in 5 steps & 1-20), POW: Andre Questions, Automaticity Games (quick draw, 24, etc.), Follow Me (adding/subtracting w/ ½), I'm Thinking of a Number, Number Sentences w/Benchmarks
4	Conferencing	Week 3 Conferencing Materials	Students will be assessed on their ability to locate benchmark fractions, find midpoints, add & subtract by ½ and find benchmark fractions, decimals & percents of numbers.	Week 3 Conferencing Materials
5	Using Benchmark Fractions, Decimals & Percents in Real-World Situations	Practice using benchmark fractions, decimals and percents in real-world situations (jobs, payment, debt, interest, etc.)	Students will develop a deeper understanding of the use of benchmarks, deductive reasoning & how to apply that knowledge in real-world situations.	Minute Math (X relay & division sheet), POW: Car Cost & Job Title Activity, Follow Me (fractions), Interest & Tips activity, Number Sentences, Automaticity Games
6	Non-Benchmark Percents & Decimals	How do you find a non-benchmark percent or decimal of a number without a calculator?	Develop understanding of finding any decimal and percent based on students' prior knowledge of benchmarks and halving numbers. Solve problems involving non-benchmark percents and decimals.	Backwards by ½ relay race, Multiplication relay race, LPS Counting Backwards by ½
7	Conferencing	Week 7 Conferencing Materials	Students will be assessed on their ability to recall information from all of Math 200	Week 7 Conferencing Materials
8	Testing	Testing	Testing	Testing