

Course Outline

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When is math class?	Your Math 8 class will be different from most classes at McNair. You will be taking math 8 all year long – that is you will take it in both the first and second semesters. Your Math 8 block is shared with your P.E. 8 block. Exactly when you go to math class and when you go to P.E. will be decided by your Math and P.E. teachers. It may not be the same schedule as other Math 8 classes.
Textbook	You will not have a textbook for Math 8. Instead, you will be working from handouts provided to you by your teacher
Tests	You will have unit tests about once per month. On each test will be a mixture of questions from the current unit and past units. On each test you are allowed to bring in a cue card with anything you want written on it. You should bring all your cue cards to every test.
Studying	Your teacher will teach you a variety of study strategies and remind you to use them throughout the year. Math is a difficult subject to study for and you need to learn how to do so.
Topics	<p>Unit 1: Review of Integer Operations – addition; subtraction; multiplication; division; order of operations.</p> <p>Unit 2: Ratios, rates, and fractions – Problem solving, adding and subtracting fractions; multiplying and dividing fractions; mixed numbers; improper fractions; probability of independent events.</p> <p>Unit 3: Decimals and Percents</p> <p>Unit 4: Number Sense – combined operations with fractions, decimals, and percents; scientific notation; square roots.</p> <p>MIDTERM</p> <p>Unit 5: Equations – algebra; polynomials; distributive property; solving equations</p> <p>Unit 6: Relations – table of values; graphing lines; slope-intercept form; transformations.</p> <p>Unit 7: 2D Geometry – Pythagorean Theorem; area and perimeter of shapes; composite shapes.</p> <p>Unit 8: 3D Geometry – volume and surface area; shape nets; 2D views of 3D objects.</p> <p>Unit 9: Angle Geometry – tessellations; transversals; triangles and angles; proofs.</p>