

Thornton Middle School
COURSE OUTLINE

Mathematics

7th Grade Level

BRIEF DESCRIPTION OF THE COURSE

Mathematics as a universal language, promoting analytical reasoning and problem-solving skills that contribute to the development of logical, abstract, and critical thinking. This course will help students view mathematics as a language of modeling and solving problems that arise in the real world.

Students will be able to...

1. develop understanding of and apply proportional relationships;
2. develop understanding of operations with rational numbers and work with expressions and linear equations;
3. solve problems involving scale drawings and informal geometric constructions, and work with two/three-dimensional shapes to solve problems involving area, surface area, and volume;
4. draw inferences about populations based on samples.

We will investigate the following units:

Integers and Rational Numbers	Expressions and Equations	Inequalities
Ratios and Proportions	Percents	Constructions and Scale Drawings
Circles and Area	Surface Area and Volume	Probability and Statistics

METHOD OF ASSESSMENT

Summative assessments are used as assessments of learning and they provide students feedback about their progress towards a standard after mastery is expected. (100% of student's grade)

Formative assessments are used as assessment for learning and they provide students feedback about their progress towards a standard during the process of learning. These include quizzes, exit tickets, activity checks, etc.

Practice Work typically includes classwork and homework and is done in the practice notebook (spiral notebook). All practice work is expected to be completed and turned in on time. This contributes to successfully meeting the content standards. In order for students to receive timely feedback, homework is due at the beginning of class on the next school day after it is assigned unless otherwise indicated by the teacher.

GRADING POLICY INCLUDING THE USE OF GRC's

There will be seven GRC's (Gradebook Reporting Criteria) used to evaluate a student's achievement marks in mathematics this year. Those seven criterion are:

- Mathematics Content (1-4) - Common Core State Standards
 - **Ratios and proportional Relationships (RP)**
 - **The Number System (NS)**
 - **Expressions and Equations (EE)**
 - **Geometry (G)**
 - **Statistics and Probability (SP)**
- **Mathematical Communication**(1-4) - addresses the student's ability to explain, construct and critiques mathematical reasoning using precise and accurate mathematical language.
- **Procedural Fluency**(1-4) - addresses the student's ability to select and execute appropriate procedural aspects of mathematics work in an organized and efficient manner.

Students will be required to attend a study session with the teacher before retaking an assessment. The study session will be an agreement between the teacher and the student. Re-takes/re-dos of **assessments** must be completed by the end of the next unit. Students will always receive the highest mark they achieve on a test.

The lowest possible mark is a one for a student who has demonstrated no effort. Missing assignments for a student who has not completed any **work**, has not turned in a project, or has not attempted an assessment will receive a mark of one for that assessment. Every student has the right to take an assessment once. However, retakes/re-dos on summatives will not be permitted until all classwork has been completed and a study session attended. Exceptions will be evaluated on a case-by-case basis.