



MATHEMATICS 8

Long Range Plan

The Math 8 course builds upon foundational math skills and concepts developed in the elementary math program. The main goals are to prepare students to:

- Use mathematics confidently to solve problems
- Communicate and reason mathematically
- Appreciate and value mathematics
- Make connections between mathematics and its applications
- Commit themselves to lifelong learning
- Become mathematically literate adults, using mathematics to contribute to society

MATERIALS and TEXTBOOK

Students will need pencils, erasers, and a basic calculator (with square root function) to progress through the Math 8 course. The school will provide a textbook (Math Links 8) for the students to use while in school, and an electronic copy to use at home. The electronic copy is accessible in Google Classroom.

LEARNING OUTCOMES

In addition to developing mathematical knowledge, seven interrelated mathematical skills are incorporated into the teaching and learning of the mathematics curriculum. Students will be encouraged to:

- Communicate mathematically
- Connect mathematical ideas to other concepts in mathematics, to everyday experiences and to other disciplines
- Use estimation and mental mathematics where appropriate
- Relate and apply new mathematical knowledge through problem solving
- Develop reasoning skills and justify thinking
- Select and use appropriate technologies as tools to solve problems
- Use visualization to assist in processing information, making connections, and solving problems

Detailed curriculum information can be found on the Alberta Education website:

<https://www.learnalberta.ca/ProgramOfStudy.aspx?lang=en&ProgramId=26061#546796>

ASSESSMENT

Formative Exit cards/Homework Check

Summative Quizzes/Tests/Projects

Please stay abreast of your child's progress and performance by checking PowerSchool regularly. If you are having difficulty accessing your child's PowerSchool account, please contact the school office.

COURSE SCHEDULE (approximate)

The Math 7 course will engage students in the study of content and development of skills in the following areas:

Units of Study	Timeline
Review & Chapter 1 – Representing Data	September
Chapter 2 – Ratios, Rates & Proportional Reasoning	October
Chapter 3 – Pythagorean Relationships	October - November
Chapter 4 – Understanding Percent	November - December
Chapter 5 – Surface Area	January
Chapter 6 – Fraction Operations	February
Chapter 7 – Volume	February
Chapter 8 - Integers	March
Chapter 9 – Linear Relations	April
Chapter 10 – Solving Linear Equations	May
Chapter 11 – Probability	June
Chapter 12 – Tessellations	June

HOMEWORK:

Work that is not completed during class time will need to be finished as homework. Math is always due the next day, as we have Math every day. Regular review and practice is essential for success.

Contact Information: jmaquire@rockyview.ab.ca

