

Math 9 Course Syllabus – 2020/2021

Teacher:

Mr. Head (mhead@rvschools.ab.ca)

Course Evaluation:

Mastering	Advancing	Progressing	Emerging	Beginning	Limited	Not Evaluated
Can apply the learning to complex tasks independently.	Can apply the learning to increasingly difficult tasks with prompts.	Can apply the learning to moderate tasks with some support.	Can apply the learning to basic tasks with support.	Can apply the learning to simple tasks with direction.	Cannot yet apply the learning to simple tasks. Extensive support required.	Not handed in or not able to be evaluated
100 or 95	90 or 85	80 or 75	70 or 65	60 or 55	50 - 20	20 or less

Attendance:

Attendance is taken at the beginning of every class; to be marked present you must be ready to work with all of the expected materials at hand. If you arrive to class late, please enter the room quietly and be sure that the attendance is changed after the lecture/activity is finished.

For missed classes, it is your responsibility to get missed notes, assignments, and information from a classmate.

Missed exams or quizzes will be made up outside of class time (preferably at noon hour) and arranged on a person to person basis as the student's responsibility to arrange.

Teacher Expectations:

To be successful in a middle years math class, students must take responsibility for their own learning. Meaning:

- Be on time with all required materials
- Pay attention and engage in class lectures, discussions, and activities
- Use class time efficiently and quietly
- Copy notes and examples from class into your notes or handouts provided
- Clearly date and title your daily work
- Fully complete homework assignments on a regular basis and submit them in a timely fashion. Failure to do so will result in you not being adequately prepared for assessments

Course Topics & Timeline:

(Order May Vary)

Unit 1: Symmetry and Surface Area (September)

SS2 Find surface area of composite 3D objects to solve problems

SS5 Show understanding of line & rotational symmetry

Unit 2: Rational Numbers (September/October)

N3a Compare and order rational numbers

N3b Solve problems involving rational numbers

N5 Determine the square root of positive rational square numbers

N6 Determine the approximate square root of positive rational numbers

Unit 3: Powers & Exponents (October/November)

N1 Understand powers and exponents

N2 - N2 Model, explain and apply exponent laws

N4 Explain and apply order of operations with exponents

Unit 4: Linear Relations (December)

PR1 Generalize patterns using linear equations

PR2 Use linear relations to solve problems

Unit 5: Polynomials (January)

PR5 Demonstrate understanding of polynomials up to degree of 2

PR6 Add and subtract polynomial expressions

PR7 Multiply and divide polynomial by monomial

Unit 6: Linear Equations (March)

PR1 Generalize patterns using linear equations

PR2 Use linear relations to solve problems

PR3a Model problems with linear equations

PR3b Solve problems with linear equations

Unit 7: Linear Inequalities (April)

PR4a Model problems with linear inequalities

PR4b Solve problems with linear inequalities

Unit 8: Scale Factors and Similarity (May)

SS3 Show understanding of similarity of polygons

SS4 Draw and interpret scale diagrams 2D shapes

Unit 9: Circle Geometry (May/June)

SS1 Use circle properties to solve problems

Unit 10: Data Analysis (June)

SP1 Describe effects on collection of data

SP2 Select and defend choice of population or sample

SP3 Plan, collect, display and analyze data

SP4 Understand role of probability in society