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J.A. WILLIAMS HIGH SCHOOL

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COURSE OUTLINE

**Math 10-3/10-4**

**Teacher:** Mrs. McKay

**School's Phone Number:** 780-623-4271

**Teacher's email:**amena.mckay@nlsd.ab.ca

**RESOURCES**

1. Math Works 10: Pacific Educational Press
2. Supplies

✔ Student Supplied: scientific calculator, binder, pencil, eraser, ruler, graph paper, geometry set.

**COURSE OBJECTIVES**

The main goals of mathematics education are to prepare students to:

* Solve problems
* Communicate and reason mathematically using mental math and estimation
* Make connections between mathematics, its applications and the real world
* Become mathematically literate
* Appreciate and value mathematics
* Make informed decisions as contributors to society
* Develop analytical and critical thinking skills by strategizing solutions to problems and evaluating the options presented

**TIMELINE OF CONTENT**

September Unit 1: Unit Pricing and Currency Exchange

September/October Unit 2: Earning an Income

October Unit 3: Length, Area, and Volume

November Unit 4: Mass, Temperature and Volume

December Unit 5: Angles and Parallel Lines

December Unit 6: Similarity of Figures

January Unit 7: Trigonometry of Right Triangles

**COURSE EVALUATION**

Measurement Strand (Chapter 3&4): General Outcome - Develop spatial sense through direct and indirect measurement.

Quizzes 12.5%

Assignments 12.5%

Geometry Strand (Chapters 5, 6, &7): General Outcome - Develop spatial sense

Quizzes 12.5%

Assignments 12.5%

Number Strand (Chapters 1,2): General Outcome - Develop number sense

and critical thinking skills.

Quizzes 12.5%

Assignments 12.5%

Algebra Strand (Chapters 1-7, embedded in every unit): General Outcome - Develop algebraic reasoning.

Quizzes 12.5%

Assignments 12.5%

Each strand will be assessed with a series of assignments/projects making up 50% of the students mark in that strand. The remaining 50% will be based on quizzes.

**COURSE LAYOUT**

Students will be given a weekly calendar. Each day students will complete an assignment and get it signed off. If the assignment is not completed in class, it will become homework and it is the student’s responsibility to hand it in to the teacher. If a student misses a class, there will be a file folder with the previous assignments available for students to access and makeup. Projects will take the place of a daily assignment sporadically throughout the semester. Projects are also expected to be completed in class. Every Friday students will take a short quiz. If students complete all assignments they will be more prepared for their quizzes and therefore be more successful in the class.

**Supplies:**

Calculator, ruler, binder, protractor, pen, eraser, paper, graph paper

**Expectations:**

* students are expected to work to the best of their abilities
* students are expected to attend regularly
* students are expected to show up on time
* students are expected to complete all course work
* students are expected to show respect, self-control, empathy and conscience towards themselves and their peers
* if students are unable to hand in a project or assignment, you must communicate with the teacher to set up alternative plans

