**Math 30-3**

Mr. Cholach (rcholach@rvschools.ab.ca)

You are capable of more than you know. Choose a goal that seems right for you

and strive to be the best, however hard the path. Aim high. Behave honorably.

Prepare to be alone at times, and to endure failure. Persist! The world needs all

you can give. ~Edward O. Wilson

**The Course:**

**Text:** Nelson Mathematics for Apprenticeship and Workplace 12

Math 30-3 is a course that is designed to prepare you for a future that uses math in the workplace. You will deal with situations that simulate the workplace. The question, “When am I ever going to use this ?”, is asked often to teachers. Chapter assessments take on a practical, or “real life” feel, where you will be using math in real world situations and scenarios.

Three main topics will be covered: Finance

 Measurement

 Statistics and Probability

Algebra, puzzels, statistics, and graphing are used throughout the course. We will cover the following units and chapters in the following order:

|  |  |  |
| --- | --- | --- |
| Chapters | Topics | Approximate Numberof Class Periods |
| Chapter 1: Buying or Leasing a Vehicle | Getting Started1.1 Buying a New Vehicle1.2 Buying a Used Vehicle1.3 Operating Costs for a Vehicle1.4 Who’s Buying What?Mid-Chapter Review1.5 Leasing a Vehicle1.6 Lease or Buy?1.7 Vehicle Options and TechnologyChapter ReviewChapter Test | 11 periods  |
| Chapter 2: Measuring Instruments | Getting Started2.1 Precision2.2 Precision and Calculations2.3 Solving a Measuring PuzzleMid-Chapter Review2.4 Precision and Accuracy2.5 Uncertainty in MeasurementsChapter ReviewChapter Test | 9 days |
| Chapter 3: Statistics | Getting Started3.1 Mean3.2 Weighted Mean3.3 Median3.4 Mode3.5 Which Score is Higher?Mid-Chapter Review3.6 Interpreting Data3.7 PercentilesChapter ReviewChapter Test | 11 days |
| Chapter 4: Linear Relations | Getting Started4.1 Describing Relations4.2 Interpreting Linear Relations4.3 Direct and Partial RelationsMid-Chapter Review4.4 Equations of Linear Relations4.5 Creating a Number Trick4.6 Scatter Plots4.7 Scatter Plots and TechnologyChapter ReviewChapter Test | 11 days |
| Chapter 5: Career Planning | Getting Started5.1 Exploring Career Options5.2 Researching Your Career Choice5.3 Planning for Training Costs5.4 Writing a Resumé5.5 Financing Your LifestyleChapter Project | 7 days |
| Chapter 6: Operating a Small Business | Getting Started6.1 Business Opportunities6.2 Business Expenses6.3 Planning for Taxes6.4 Sidewalk Sale GameMid-Chapter Review6.5 Improving Profitability6.6 Break-Even PointChapter ReviewChapter Test | 10 days |
| Chapter 7: Polygons | Getting Started7.1 Triangles7.2 Quadrilaterals7.3 Creating Polygon PuzzlesMid-Chapter Review7.4 Regular Polygons7.5 Applications of PolygonsChapter ReviewChapter Test | 9 days |
| Chapter 8: Transformations | Getting Started8.1 Translations8.2 Reflections8.3 RotationsMid-Chapter Review8.4 Dilations8.5 Dilations and Technology8.6 Combining 2-D Transformations8.7 Solving a Transformation PuzzleChapter ReviewChapter Test | 11 Days |
| Chapter 9: Trigonometry | Getting Started9.1 Exploring the Sine Law9.2 Solving Sine-Law Problems9.3 Reversing Triangle PuzzleMid-Chapter Review9.4 Exploring the Cosine Law9.5 Solving Cosine-Law Problems9.6 Choosing the Sine Law or Cosine LawChapter ReviewChapter Test | 10 days |
| Chapter 10: Probability | Getting Started10.1 Experimental Probability10.2 Theoretical Probability10.3 Three-Cup Guessing GameMid-Chapter Review10.4 Interpreting Odds10.5 Making DecisionsChapter ReviewChapter Test | 9 days |
| Chapter 11: Owning a Home | Getting Started11.1 Qualifying for a Mortgage11.2 Closing Costs11.3 Mortgage PaymentsMid-Chapter Review11.4 Managing Housing Costs11.5 Mortgages and Technology11.6 Solving Map PuzzlesChapter ReviewChapter Test | 10 days |

**Evaluation:**

A. Unit Exams 45%

B. Homework and class assignments, projects 30%

C. Final exam 25%

Total 100%

**Expectations:**

Come to class on time, prepared to work (bring workbook, laptop, pen, calculator, geometry set).

Students are expected to be in class, seated and prepared to work when the bell rings. Students who are late must knock and will be admitted at the teacher’s earliest convenience. Students late three times will receive a lunchtime detention. Any subsequent late will result in a lunchtime detention.

Extra help is always available during CONN3CT (Flex) in Room 204– please feel free to come in if you fall behind!

Regular use of PowerSchool is encouraged – YOU are responsible for your marks!

Students are encouraged to complete ALL assignments, as the learning process is necessary for success on tests and the final exam.

Assignments will be given a firm due date with a few days allotted to come in for any extra help needed prior to the due date. If the assignment is not submitted on the due date, a 0 will be entered into PowerSchool and the student must come in during CONN3CT (Flex) or lunchtime until caught up. Once the assignment is completed and marked, the grade will be updated. If the assignment is still not completed, parents will be contacted and you will receive appropriate disciplinary action from administration.

When absent from a regular class, it is your responsibility to obtain any class notes or assignments through a friend or myself. If an assignment was due that day, it is your responsibility to return it at the beginning of the next class.

When absent from an exam, a student’s parents must phone the school PRIOR to the exam and explain why the student will be missing the exam. Parents are required to mention the exam to the school secretary when they phone in. Only if this is done will the student NOT receive a zero on the exam. The exam will then be written in the test center on your first day back in attendance.

When quizzes are missed, students will be expected to be prepared to complete them during the next class or during CONN3CT (Flex).

Cell phones are not permitted and will be confiscated if in use or if they ring during class time. They will be brought to the office where they can be retrieved as per school policy. Music (on earbuds) is only permitted during individual work time, and may be confiscated if used during inappropriate times. When I am teaching I expect earbuds out and music off.

“If you couldn’t do it, I wouldn’t ask!” – K. Polson