**Math 30-3**

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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:

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| Chapters | Topics | Approximate Number  of Class Periods | |
| Chapter 1: Buying or Leasing a Vehicle | Getting Started  1.1 Buying a New Vehicle  1.2 Buying a Used Vehicle  1.3 Operating Costs for a Vehicle  1.4 Who’s Buying What?  Mid-Chapter Review  1.5 Leasing a Vehicle  1.6 Lease or Buy?  1.7 Vehicle Options and Technology  Chapter Review  Chapter Test | 11 periods | |
| Chapter 2: Measuring Instruments | Getting Started  2.1 Precision  2.2 Precision and Calculations  2.3 Solving a Measuring Puzzle  Mid-Chapter Review  2.4 Precision and Accuracy  2.5 Uncertainty in Measurements  Chapter Review  Chapter Test | 9 days | |
| Chapter 3: Statistics | Getting Started  3.1 Mean  3.2 Weighted Mean  3.3 Median  3.4 Mode  3.5 Which Score is Higher?  Mid-Chapter Review  3.6 Interpreting Data  3.7 Percentiles  Chapter Review  Chapter Test | 11 days | |
| Chapter 4: Linear Relations | Getting Started  4.1 Describing Relations  4.2 Interpreting Linear Relations  4.3 Direct and Partial Relations  Mid-Chapter Review  4.4 Equations of Linear Relations  4.5 Creating a Number Trick  4.6 Scatter Plots  4.7 Scatter Plots and Technology  Chapter Review  Chapter Test | 11 days | |
| Chapter 5: Career Planning | Getting Started 5.1 Exploring Career Options 5.2 Researching Your Career Choice 5.3 Planning for Training Costs 5.4 Writing a Resumé 5.5 Financing Your Lifestyle Chapter Project | | 7 days | |
| Chapter 6: Operating a Small Business | Getting Started 6.1 Business Opportunities 6.2 Business Expenses 6.3 Planning for Taxes 6.4 Sidewalk Sale Game Mid-Chapter Review 6.5 Improving Profitability 6.6 Break-Even Point Chapter Review Chapter Test | | 10 days | |
| Chapter 7: Polygons | Getting Started 7.1 Triangles 7.2 Quadrilaterals 7.3 Creating Polygon Puzzles Mid-Chapter Review 7.4 Regular Polygons 7.5 Applications of Polygons Chapter Review Chapter Test | | 9 days | |
| Chapter 8: Transformations | Getting Started 8.1 Translations 8.2 Reflections 8.3 Rotations Mid-Chapter Review 8.4 Dilations 8.5 Dilations and Technology 8.6 Combining 2-D Transformations 8.7 Solving a Transformation Puzzle Chapter Review Chapter Test | | 11 Days | |
| Chapter 9: Trigonometry | Getting Started 9.1 Exploring the Sine Law 9.2 Solving Sine-Law Problems 9.3 Reversing Triangle Puzzle Mid-Chapter Review 9.4 Exploring the Cosine Law 9.5 Solving Cosine-Law Problems 9.6 Choosing the Sine Law or Cosine Law Chapter Review Chapter Test | | 10 days | |
| Chapter 10: Probability | Getting Started 10.1 Experimental Probability 10.2 Theoretical Probability 10.3 Three-Cup Guessing Game Mid-Chapter Review 10.4 Interpreting Odds 10.5 Making Decisions Chapter Review Chapter Test | | 9 days | |
| Chapter 11: Owning a Home | Getting Started 11.1 Qualifying for a Mortgage 11.2 Closing Costs 11.3 Mortgage Payments Mid-Chapter Review 11.4 Managing Housing Costs 11.5 Mortgages and Technology 11.6 Solving Map Puzzles Chapter Review Chapter 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