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| Foundations of Mathematics 11 Course Outline |
|  | Topic/Learning objectives | Resource | Value |
|  **Financial Literacy** |
|  | Compound interest | handouts | 13% |
|  | Investments and loans with payments |
|  | Buying vs leasing |
| **Statistics** |
|  | Measures of central tendency | Ch 5 | 16% |
|  | Standard deviation and normal distributions | Ch 5 |
|  | Confidence intervals | Ch 5 |
|  | Collecting and interpreting numerical data | project |
|  **Logic and reasoning** |
|  | Inductive and deductive reasoning | Ch 1 | 15% |
|  | Conjectures and counterexamples | Ch 1 |
|  | Strategy games and puzzles | Ch 1/handouts |
| **Geometry** |
|  | Angle properties | Geometry package | 15% |
|  | Triangles and polygons |
|  | Geometry constructions |
|  | Geometry proofs |
| **Scale models** |
|  | Enlarging and reducing in 2D and 3D | Ch 8 | 9% |
|  | Comparing properties of scale models  | Ch 8 |
| **Graphical Analysis** |
|  | Linear inequalities | Ch 6 | 32% |
|  | Optimizing linear systems | Ch 6 |
|  | Quadratic functions | Ch 7 |
|  | Applications of quadratic functions | Ch 7 |
|  | Linear-quadratic and quadratic-quadratic systems | handouts |
|  | Optimizing quadratic systems | handouts |

##  Grading: ­

## The CHSS Mathematics Department uses a Cumulative Grading system. This means that each unit is worth a specific percentage of the entire course. Term 1 will show the student’s progress up until that point. Term 2 will show their progress from September until the end of Term 2. The Term 3 and the Final mark will show the student’s level of mastery throughout the entire course. The final mark is not an average of the three term marks.

## Student Expectations: ­

Students are expected to attend every class on time, actively participate in class and do their best to be successful. Missed classes must be verified with a note from a parent or guardian.

Students must bring a notebook, textbook, calculator, graph paper and pencil to every class. A scientific calculator is necessary for this course, a graphing calculator is permitted/needed for some units. A phone calculator may not be used during quizzes or tests.

Music is allowed only during individual work time at a volume such that no one else can hear it. Sharing earphones is not allowed. Music is not permitted during tests or quizzes.

Cell phones are not permitted in class other than taking photos of relevant work and class activities designed for their use.

##  Work Habits: ­ Work Habit marks are independent of achievement marks.

A “G” student: consistently does their work, has good attendance, is attentive in class, is respectful, and tries their best to be successful.

An “S” student: completes their work most of the time, attends regularly, is attentive most of the time in class, is sometimes off-task, and could try harder to be successful.

An “N” student: consistently does not do their work, does not attend regularly, is inattentive in class, acts inappropriately, and does not try to be successful.