

Math Year 3 COURSE SYLLABUS

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Course Description

This course is the foundation for high school mathematics courses. It is the bridge from the concrete to the abstract study of mathematics. Topics include simplifying expressions, evaluating and solving equations, geometry, data analysis, the real number system, and graphing linear and quadratic functions and relations. Real world applications are presented within the course content and throughout project based assessments.

IB Middle Years Programme Objectives & Strands

IB Mathematics

Criterion A: Knowing and understanding

At the end of year 3, students should be able to:

- i. select appropriate mathematics when solving problems in both familiar and unfamiliar situations
- ii. apply the selected mathematics successfully when solving problems
- iii. solve problems correctly in a variety of contexts.

Criterion B: Investigating patterns

At the end of year 3, students should be able to:

- i. select and apply mathematical problem-solving techniques to discover complex patterns
- ii. describe patterns as relationships and/or general rules consistent with findings
- iii. verify and justify relationships and/or general rules.

Criterion C: Communicating

At the end of year 3, students should be able to:

- i. use appropriate mathematical language (notation, symbols and terminology) in both oral and written explanations
- ii. use different forms of mathematical representation to present information
- iii. move between different forms of mathematical representation
- iv. communicate complete and coherent mathematical lines of reasoning
- v. organize information using a logical structure.

Criterion D: Applying Mathematics in Real- Life Contexts

At the end of year 3, students should be able to:

- i. identify relevant elements of authentic real-life situations
- ii. select appropriate mathematical strategies when solving authentic real-life situations
- iii. apply the selected mathematical strategies successfully to reach a solution
- iv. explain the degree of accuracy of a solution
- v. explain whether a solution makes sense in the context of the authentic real-life situation

Categories & Weights

| | |
|-------------|-----|
| Assessments | 70% |
| Classwork | 20% |
| Homework | 10% |

Grading Scale

| | |
|---------------|---|
| 100% - 90% | A |
| 89% - 80% | B |
| 79% - 70% | C |
| 69% - 60% | D |
| 59% and below | F |

Family Access/Student Access:

- Grades are updated in Skyward every Friday. Parents should check online grades regularly through Family Access. If you do not have your login credentials for Family Access please contact our Technology Department at 708-367-2930.
- Students will be trained to review their own grades and academic progress through Student Access.

Class Supplies Needed:

- Chromebook--Charged @ home daily
- Scientific calculator
- Textbook
- Writing utensil
- Notebook
- Student planner

Late/Absence Work Policy:

- If an excused absence occurs the student has the number of days absent plus one to complete the work for full credit.
- If the student turns in late work a penalty of 10% per day will be applied.

All students are expected to adhere to the CMMS Academic Honesty Policy. Our Academic Honesty policy was sent home during the first week of school.

If you have questions about content and or grades, please contact your child's teacher.