

# St. Rita Catholic School

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## 8<sup>th</sup> Grade Advanced Algebra – Course Outline

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Welcome to the wonderful world of Advanced Algebra. You are in for an exciting year. I promise in my class to work hard to make sure you have the best mathematical experience whilst having fun at the same time ☺

### Objective:-

This course is designed to prepare you for real world numerical situations and allow you to have the opportunity to improve your numeracy skills and concepts.

**Resources:** TB: Algebra I - Martin-Gay (Pearson), Notes & worksheets.

This course will cover the following topics (8 Units),

- ✚ U1: Matrices & Mixture and distance Problem Solving.
- ✚ U2: Linear Functions & Equations of Lines.
- ✚ U3: Negative Exponents & Factoring Polynomials.
- ✚ U4: Rational Expressions.
- ✚ U5: Solving Absolute Value Equations & Inequalities and Solving Systems of Linear Equations & Inequalities.
- ✚ U6: Quadratic Equations.
- ✚ U7: Graphs and Functions + Matherpiece Project.
- ✚ U8: Roots, Radicals & Sequences.



### Materials:-

- ✚ 3 Ring binder ( For worksheets )
- ✚ 2 Spirals ( For notes & practices )
- ✚ Loose leaf ( For Quizzes )
- ✚ Pencil, eraser, ruler and red pen
- ✚ Graphics calculators will be provided in class.

## Formative and Summative Assessment Activities

- Observations & Questioning
- Student Interviews
- Self-Evaluation
- Oral Reports
- Geometric Constructions
- Concrete representations
- Problem Solving
- Student Work
- Error Corrections
- Worksheets & Questions
- Discussion
- Drawing
- Minor assessments and Tests
- Assignments & Projects



Summative Assessment Type	Contribution of marks to the unit
Class/Homework	25%
Participation	5%
Minor assessments	15%
Project	15%
Tests	40%
Q1: 45%, Q2: 45%	Exam: 10%



## Homework:

1. Assignments are assigned/**CHECKED** on daily basis.  
**(Do your best to finish your homework in class!)**
2. Your work must show all the **CALCULATIONS**.
3. If I cannot **READ** it, I cannot **MARK** it.
4. If you are **ABSENT**, it's your **RESPONSIBILITY** to find out what work you missed.

## Minor assessments:

1. Will be given **as a practice**.  
(Given almost every other day, not announced!)
2. Counted for marks; however, if you **did well in your unit test, the grade may be changed**.  
(Check your mistakes! 85% or more in your unit test will change your minor assessments' marks to 100%)



## Unit Tests:

**2 Unit Tests** per Quarter.

- ✚ Any student who misses a test due to absence will be expected to take the test the first day back unless other arrangements have been made.

## Classroom Expectations:-

**Participation** in this course is absolutely vital. Combine this with an enthusiastic positive attitude and students will achieve success by adhering to the following criteria: (5% Depends on everything you do in class)



1. Arrive to class **ON TIME, PREPARED** for the day's work and **WILLING** to work hard.



2. Binders must be organized, neat and up to date.



3. Sharing calculators is **NOT ALLOWED**.



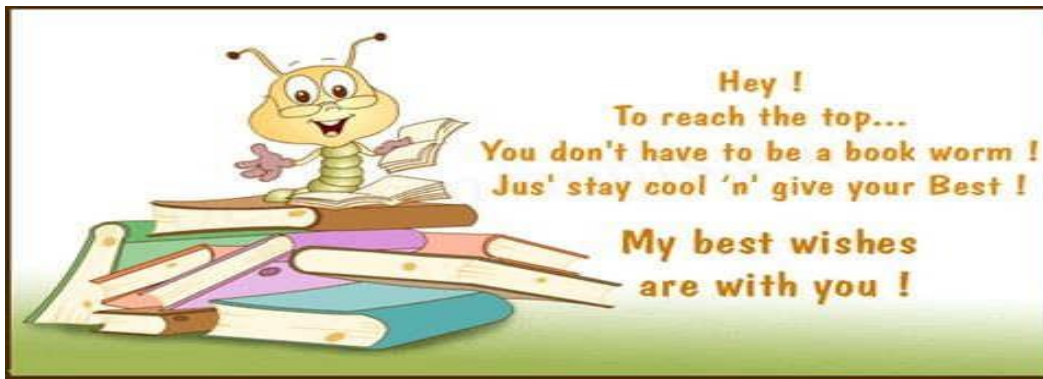
4. Behave **MATURLEY** and **RESPECTFULLY** to everyone in the class!
5. Take **RESPONSIBILITY** for what you **DO!** (Make sure you **UNDERSTAND EVERYTHING** before you leave the class).



**Tutorials:** Extra help is available!

Monday through Friday/ except Wednesday (At 7:20 am & Recess time)

- Please email your teacher the night before, if you are coming at 7:20 am.



And may God bless you.

## *Math Big Ideas*

Numbers can be represented in many forms and reflect different relationships.

Numeracy helps us to see patterns, communicate ideas, and solve problems.

Geometry and measurement empower us to make meaning of the world.

Patterns allow us to see relationships and develop generalizations.

We can apply mathematics to inquiry questions and use it to communicate information and data.

Data enable us to draw conclusions and make predictions in an unstable world.