

# Algebra I Course Organizer

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Teacher: Eapen

Time: Periods 1, 2, 4 & 7

# The Course Organizer

Student:

Course Dates: 8/24/10 – 5/27/11

● This Course: Algebra I

is about

using algebraic tools to solve problems to provide a solid foundation for further study of mathematics

● Course Questions:

1. How can data be used to solve problems?
2. What is the relationship between an equation and its graph?
3. How can I write and simplify algebraic equations?
4. What is the difference between simplifying and solving?
5. How can data be represented in multiple forms?
6. How can I solve equations? (simple, linear, proportional, quadratic...)
7. What steps do you take to solve word problems?
8. How do you determine the most effective way to solve a quadratic equation?
9. Why is it important to make predictions using tables, graphs, and rules?
10. How do you determine the best method for solving systems of equations?
11. How do you use symbols to solve real world problems?
12. How do you recognize linear functions from tables, graphs and equations?
13. How do linear functions represent a starting point and a rate of change?
14. How do you use systems of equations to solve problems with two unknown values?
15. How do the rules of polynomials assist in simplifying?
16. How are quadratic functions different from linear functions?
17. How do you use quadratic functions to solve problems?
18. How are growth and decay functions similar? How are they different?
19. What are the rules for operations on radicals? How are radicals simplified?

● Course Standards:

<b>Independent Practice</b>	3-5/week	10%
<b>Lesson Assessments</b>	Every week	60%
<b>Unit Assessments</b>	1-2 ever six weeks	30%

● Independent Practice is important for skill/strategy practice of the day's lesson and previous lessons.

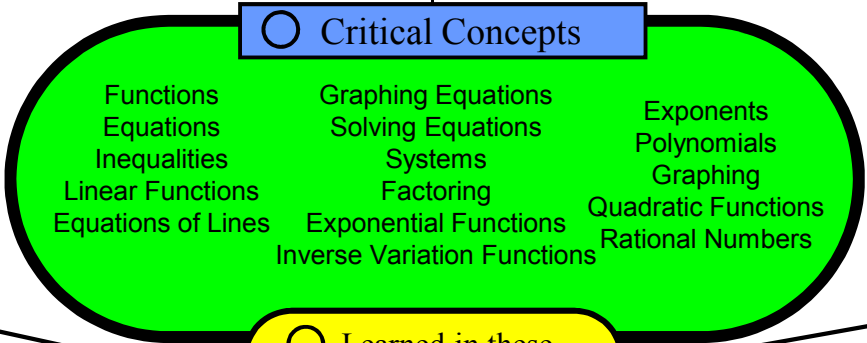
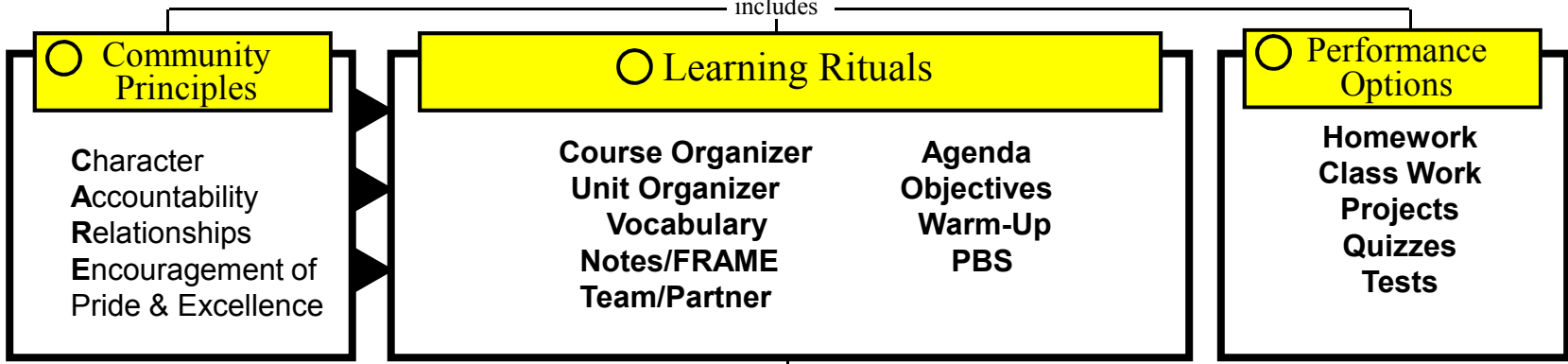
● Lesson Assessments are a combination of daily class work and weekly quizzes, which provides the teacher with a skills/strategy check of the students' abilities and allows for remediation or challenge if necessary.

● Unit Assessments provide verification and validation of the students' skills/strategies learned in class.

# Course Map

This Course: **Algebra I**

Student:



## Learned in these Units

