

# Algebra 1 2<sup>nd</sup> Semester

The exam will contain Multiple Choice questions. You may use your scientific calculator for the entire exam. There will also be patty paper, rulers, and scratch paper available.

**It is strongly recommended that you spend quality time reviewing all tests and quizzes as well as looking through the notes you took during class. Don't procrastinate!!**

## Test Dates:

Thursday, June 14<sup>th</sup>

1<sup>st</sup>: 8:00-9:30AM

2<sup>nd</sup>: 9:35-11:05AM

Friday, June 15<sup>th</sup>

3<sup>rd</sup>: 8:00-9:30AM

4<sup>th</sup>: 9:40-11:10AM

Tuesday, June 19<sup>th</sup>

5<sup>th</sup>: 8:00-9:30AM

6<sup>th</sup>: 9:40-11:10AM

## Chapter 7: Functions

What is the definition of a function	Discrete vs Continuous	Domain and Range
Determining if a graph represents a function		Determining if a table represents a function
Solving for x using function notation	Given a graph solve for $f(x)$	Function Notation

## Chapter 8: Transformations

Understanding the parent functions	Describing absolute value function transformations
Writing equations for a graph	Describing quadratic function transformations
Writing equations given a description	Describing a generalized functions transformation
Graphing absolute value functions and quadratic functions	Given an original function, transform it

## Chapter 9A: Classifying Numbers/Radicals

Classifying Numbers	Adding/Subtracting Radicals
Multiplying/Dividing Radicals	Simplifying Radicals

## Chapter 9B: Quadratics

Solving quadratics for x	Quadratics representing real world situations
Vertex to general	Understanding Graph: <i>line of symmetry, roots, vertex</i>

## Chapter 9C Quadratics

Expanding quadratic expressions	Factoring quadratic expressions	Identifying Polynomials
Solve for x using zero product property	Factored to Standard	Standard to Factored

## Chapter 9D: Quadratics

Completing the square	Discriminant	Graphing in all forms
General to vertex by completing the square	Solving Linear/Quadratic System	
Rewriting quadratic equations in different forms	Quadratic Formula	

## Notes

- The grade you have earned after your final exam is done will be the grade you receive for 2<sup>nd</sup> Semester. I do not round final grades (see Course Expectations).
- Check your grades on Skyward tonight. If you think I have made a mistake, please email me immediately.
- I will be available in the Commons on Wednesday June 20<sup>th</sup> from 10:05-10:30AM. If you wish to see your final exam results, you must meet me in the Commons during this time period. I may not be available at any other time. If you want to see your final exam you need to **email me by the evening of June 19<sup>th</sup>** so I can make sure to have it with me in the Commons.