# Carver Christian High School

### Carver Logo BW Logo Math 8

### 2017-2018 Course Outline

## **Teacher: Ms. J. Kim**

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Math 8 Overview:

The study of mathematics brings out a sense of awe and wonder in the design and order of God’s creation, as well as pointing to the faithfulness, immanence, and transcendence of God. Mathematics is a tool that is used everywhere. It is used in construction sites, hospitals, grocery stores, and restaurants. It is a language that interconnects business, social sciences, engineering, computing, information science, science and technology

***Prerequisite:*** Math 7

## Math 8 Topics:

The 5 Big Ideas of Math 8:

* Number represents, describes, and compares the quantities of ratios, rates, and percent.
* Computational fluency and flexibility extend to operations with fractions.
* Discrete linear relationships can be represented in many connected ways and used to identify and make generalizations.
* The relationship between surface area and volume of 3D objects can be used to describe, measure, and compare spatial relationships.
* Analyzing data by determining averages is one way to make sense of large data sets and enables us to compare and interpret.

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| --- | --- |
| **Chapter**  | **Topic** |
| Ch. 2 | * Numerical proportional reasoning (rates, ratio, proportions, and percent)
* Financial literacy – best buys
 |
| Ch. 3 | * Perfect squares and square roots
* Pythagorean theorem
* Cube and Cube roots
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| Ch. 4 | * Percent less than 1 and greater than 100 (decimal and fractional percent)
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| Ch. 5 & 7 | * Surface area and volume of regular solids, including triangular and other right prisms and cylinders

Construction, views, and nets of 3D objects |
| Ch. 6 | Operations with fractions (addition, subtraction, division, multiplication, and order of operations) |
| Ch. 9  | Discrete linear relations (extended to larger numbers, limited to integers) |
| Ch. 10 | * Expressions – writing and evaluating using substitution

Two-step equations with integer coefficients, constants, and solutions |
| Ch. 11 | Theoretical probability with two independent events |
|  | * Central tendency
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Course Resources:

*MathLinks 8*

Assessment:

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| --- | --- |
| ***Marks for each Report*** | **% of Term** |
| Attitude & Participation | 10 |
| Homework | 20 |
| QuizzesTests | 3040 |
| Total: | 100 |
|  |  |

 \*mark distribution may change during the term.

Final Mark Breakdown:

A 86-100%

B 73-85%

C+ 67-72%

C 60-66%

C- 50-59%

F 0-49%

Term 2 40%

Term 4 40%

Final Exam 20%

Total: 100%

Materials:

* A binder with lined paper
* pencils, eraser, blue/black pen, red pen
* student planner
* Calculator
* Dividers (note, homework, quizzes & tests)

Expectations:

1. **Show UP!**

I will expect that when you are here, you are here to get some work done. Everyone is to try their best. If you are not working to the best of your abilities, the teacher has the right to move the student to a more suitable location or keep the student in during lunch or after school. Further action may result if there is no improvement.

1. **Keep UP!**

Try to stay up to date on the work we do in class. I am here at lunch and after school for extra help if you ever need any! It is YOUR responsibility to catch up on all missed work and complete all assignments when you are absent. Phone a "Class Buddy" to get missing assignments or check the class website. Also use your time wisely in class!

1. **Be Ready!**

Bring all materials (pencil, calculator, etc.) to class every day and be prepared in your own seat to start class.

1. **Respect!**

Everyone must respect each other and everything in the classroom. Listen attentively when another person is talking (e.g. teacher, classmate) and watch your language!

1. **Electronics (Music players, Cell Phones, smart watches etc…)**

Please be respectful with your electronics. I should not see a cell phone or hear one especially during note taking! Ear-buds are not worn or hung around your ear during note taking as well!

Note: Smart watches are removed when writing a test or a quiz! The time will be posted for you

1. **Eating in class**

You are not allowed to eat in class but there can be some exceptions. Please ask me first before thinking of eating. Also no chewing gum in the class! I am not responsible to clean up after your garbage! I should not see wrappers, empty cans or juice containers left behind!

1. **Lateness and Absences**

Please do not show up to class late all the time. If you have to be away, please bring a signed note from home explaining your absence on your FIRST day back. No note means you SKIPPED class and a phone call or email will be sent home!

1. **DO NOT MISS A TEST!!!** You will receive a ZERO on any test or assignment that you miss due to an unexplained absence. Tell me BEFORE THE TEST to let me know that you will not attend. Bring a signed note on the FIRST DAY back.
2. Any cheating that is detected on assignments, tests, or quizzes will result in a score of 0%. A meeting with your parents and administrator will also take place.

**RESPECT…**

**Yourself,**

**Your classmates,**

**Your teacher,**

**Your own learning &**

**Your classroom.**

Homework Buddy #1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Phone #\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Homework Buddy #2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Phone #\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent/Guardian and student please sign below to acknowledge receipt of this course overview.

Parent/Guardian’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_