# Course Description

Core Connections Geometry aims to formalize and extend the geometry that students have learned in previous courses. It does this by focusing on establishing triangle congruence criteria using rigid motions and formal constructions, building a formal understanding of similarity based on dilations and proportional reasoning, developing the concepts of formal proof, exploring the properties of two- and three-dimensional objects, working within the rectangular coordinate system to verify geometric relationships, proving basic theorems about circles, and using the language of set theory to compute and interpret probabilities for events.

On a daily basis, students in Core Connections Geometry use problem solving strategies, questioning, investigating, analyzing critically, gathering and constructing evidence, and communicating rigorous arguments justifying their thinking. Students learn in collaboration with others, sharing information, expertise, and ideas.

## Resources

College Preparatory Mathematics Core Connections Geometry Textbook

## Required Materials

Notebook—lined paper for notes. This can be a section of your binder

Workbook—graph paper for numbered problems. MUST be graph paper. This can be a section of your binder.

Pencils with Erasers

Tape

Desmos App (Free) or Graphing Calculator

Book Cover—buy in student store

**YOU MUST HAVE THESE SUPPLIES IN CLASS EVERY DAY.**

## Extra Help

MrLarrieu.weebly.com

[homework.cpm.org](http://homework.cpm.org)

[khanacademy.org](http://khanacademy.org)

CPM Geometry

MrLarrieu.weebly.com | H21

Class Expectations

• Be a good person

• Learn as much as you can

• Honor the class philosophies

For more information about the class philosophies, please see MrLarrieu.weebly.com. In fact, you should be looking at MrLarrieu.weebly.com every day for assignments, grades, homework help, etc.

Notebook

Your notebook is your lifeline in this class. You MUST keep your notebook with you at all times, and it MUST be done according to instructions. This is a non-negotiable in my class. You need to have your supplies with you on a daily basis to maintain the notebook (tape is essential!).

Study Team Expectations

Study team interaction is an integral part of the learning process in the CPM curriculum. The daily activities in this course depend on students working and having discussions in teams to make sense of concepts. The teacher has an active and important role in supporting these interactions and encouraging students’ thinking. Primarily, the teacher’s responsibility is to ask good questions that stimulate student thinking and develop self-sufficient learners.

• You are expected to share your ideas and contribute to the team’s work.

• You are expected to ask your teammates questions and to offer help to your teammates.

• Questions can move your team’s thinking forward and help others to understand ideas more clearly.

• A team that functions well works on the same problem together and discusses the problem while working.

• One student in the team should not dominate the discussion or thinking process.

• Your team should stop regularly and verify that everyone in the team agrees with a suggestion or solution.

• Everyone in your team should be consulted before calling on the teacher to answer a question.

Assignments

Assignments will be anything from classwork to homework. These will not be accepted late, and cannot be redone. Homework will be assigned daily, and collected once a week. If you have questions on the homework, you need to email me the night it is assigned (NOT at the last minute the day before everything is due). Depending on the number of students with questions, we will either address it as a class or I will help you in a small group. Three to five problems will be graded each week for accuracy.

## Grading Policy

The categories for your grade are listed below, along with the percentage weight that will be applied to the category. Descriptions of each are included in the main body of the syllabus.

* Notebook: 5%
* Assignments: 15%
* Individual Assessments: 50%
* Team Assessments: 15%
* Final Exam: 15%

The math department scale to receive each letter grade is as follows:

A: 90-100%

B: 80-89%

C: 70-79%

D: 60–69%

F: <60%

## Commitment

As a team, we commit to following the expectations in this classroom. We have read the syllabus and will email any questions or concerns as necessary. We will work our hardest to learn, grow, and maintain a positive attitude.

Student:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Family member:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Individual Assessments

Individual assessments are quizzes, tests, projects, and portfolio entries you complete on your own. You will have the opportunity to resubmit these (up to two times) with revision so long as they are turned in on time. If an assessment is turned in or taken late, you forfeit your right for resubmission.

Team Assessments

Team assessments are quizzes, tests, projects, and portfolio entries you complete with your team, and will receive one grade for the whole team. These will not be accepted late.

Final Exam

The final exam will be cumulative, and cannot be revised.