Geometry A

2018-2019

# Instructor Information

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| Instructor | Email |  |
| **Michelle Kondracki** | MKondracki@iwacademy.org |  |

# General Information

## Description

When Abraham Lincoln was practicing law, he carried around a copy of geometry problems that he solved to enhance he logical reasoning. Mastering geometry will develop your problem solving skills and improve your perseverance in finishing difficult problems. You will be able to construct viable arguments and critique the reasoning of others, reason abstractly and quantitatively, use appropriate tools strategically and look for and express regularity in repeated reasoning ([www.corestandards.org](http://www.corestandards.org)). Although there are many types of geometry, school mathematics is devoted primarily to plane Euclidean geometry, studied both synthetically (without coordinates) and analytically (with coordinates).

## Expectations and Goals

Complete homework when it is assigned to ensure that the class is ready to move on the next lesson. Participate and be respectful during class, and come prepared every day with required course materials. Remember to follow all school rules in the classroom.

If you are absent, feel free to e-mail me asking for filled in notes, worksheets, etc. to stay on top of the material. Schedule an open lab at the earliest time if you need to learn the lesson. If there was an assignment due on the day you were absent, it is due the first class day you are back.

Late assignments are graded for 50% of the earned grade, and if you do not turn them in by the end of the following LAP they will stay a 0%.

Please do not travel in groups to open labs. Only come to my open lab if you have math to work on, and please do not bring friends who do not have math to work on. Your group will be subject to separation if needed.

**Redo/Retakes**

Steps for redo

1. Complete original review
2. Correct mistakes and review with me
3. Create a study plan with teacher to prepare for the retake
4. **E-mail** your teacher when and where you want to take the retake **by 3 the previous day**

# Course Materials

## Required Materials

These materials should be brought to class **every day**

* TI-84 graphing calculator\*
* Binder to keep notes, handouts, and homework organized
* Charged device
* Writing utensil, colored utensils

\*If you do not have a graphing calculator by then end of the first cycle, you will get a demerit. If you do not have one after the second cycle, you will get a detention. If it is difficult for your family to buy one at this time, please come talk to me ahead of time to avoid a demerit/detention

## Textbook

**Geometry Common Core**  Math XL

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| To access the actual textbook (you are assigned problems from the book) |
| [www.pearsonrealize.com](http://www.pearsonrealize.com)Username: IWAOrangebookPassword: Geometry123 |

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| To access MathXL (you are assigned a MathXL homework assignment) |
| [www.mathxlforschool.com](http://www.mathxlforschool.com)Username: your e-mail (probably your IWA one)Password: whatever you chose when you made account |

# Course Schedule

| Lap  |  | Topic |  |
| --- | --- | --- | --- |
| Lap 1 |  | Chapter 1: Tools of Geometry |  |
| Lap 2 |  | Chapter 2: Reasoning and Proof |  |
| Lap 3 |  | Chapter 3: Parallel and Perpendicular Lines |  |
| Lap 4 |  | Chapter 4: Congruent Triangles |  |
| Lap 5  |  | Chapter 5: Relationships Within Triangles |  |
| Lap 6 |  | Chapter 6: Polygons and Quadrilaterals |  |
| Lap 7 |  | Chapter 7: Similarity |  |
| Lap 8 |  | Chapter 8: Right Triangles and Trigonometry |  |
| Lap 9 |  | Chapter 9: Transformations |  |
| Lap 10 |  | Chapter 10: Area |  |
| Lap 11 |  | Chapter 11: Surface and Volume |  |
| Lap 12 |  | Chapter 13: Probability |  |