Lap 2 Reasoning and Proof

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Overview & Rational

In this LAP, we will cover a cluster of new vocabulary consisting of tools for proofs. You will use deductive reasoning and laws of logic to write proofs and evaluate logical arguments. Learning reasoning and proof will help you form better mathematical arguments. Being able to evaluate the logic in someone’s argument is a valuable skill in all areas of life, not just mathematics.

**Essential Question**

How do you know when you are right? How can you convince others that your conclusions are correct?

**Open Lab & Enrichment Due 9/20**

**Enrichment**: FACEing Geometry

**Back to Basics due every k day by the end of the day**

Back to Basics every cycle starting A day Tuesday, 9/18. Must master completely 100%. Topic: solving equations

**Lap Summative Assessment is in class on friday, 9/21**

| Date | Lesson | Homework |
| --- | --- | --- |
| Tuesday9/4C | **2.1 Patterns and Inductive Reasoning**SWBAT use inductive reasoning to make a conjecture | 2.1 Patterns and Inductive Reasoning WorksheetComplete by : 9/5 |
| Wednesday9/5D | **GO OVER SUMMER MATH PACKET TEST** |  |
| Thursday9/6E | **2.2 Conditional Statements**SWBAT recognize conditional statements, and write converses, inverses, and contrapositives | 2.2 Conditional Statements WorksheetComplete by : 9/10 |
| Monday9/10G | **2.3 Biconditionals and Definitions**SWBAT write biconditionals | 2.3 Biconditionals and Definitions WorksheetComplete by : 9/11 |
| tuesday9/11h | **QUIZ**  |  |
| wednesday9/12J | **2.4 Deductive Reasoning**SWBAT use the law of detachment and the law of syllogism to make conclusions | 2.4 Deductive Reasoning WorksheetComplete by : 9/12 |
| tuesday9/18a | **2.5 Reasoning in Algebra and Geometry**SWBAT reason in algebra and geometry | 2.5 Reasoning in Algebra and Geometry WorksheetComplete by : 9/19 |
| wednesday9/19b | **2.6 Proving Angles Congruent**SWBAT prove angles are congruent using theorems | 2.6 Proving Angles Congruent WorksheetComplete by : 9/20 |
| thursday 9/20C | **Review day** |  |
| Friday9/21D | **Test – in class** |  |