

## Resource Page: Inductive and Deductive Reasoning

<b>Number and Logic</b>	<b>Develop number sense and logical reasoning.</b>
<b>General Outcome</b>	
<b>Specific Outcomes</b>	<b>1. Analyze and prove conjectures, using inductive and deductive reasoning, to solve problems. 2. Analyze puzzles and games that involve spatial reasoning, using problem-solving strategies.</b>

### Unit Resource Packages

[Math 20-2 Inductive and Deductive Reasoning](#) -- [WNCPactivemath.com](#)

### Lesson 1: Making Conjectures: Inductive Reasoning

#### Absolute Value Workbook:

Mathematical Reasoning: Lesson 1 -- Pages 63 - 72

#### Lesson Links:

- [Mary Celeste lesson plan with video link](#)
- [Dyatlov's pass lesson plan with video links](#)
- [BasicMath.com -- Examples of Inductive Reasoning](#)
- [IndiaBix -- Number Series - Logical Reasoning](#)

#### Video Links:

- [Sherlocke Holmes Video introducing Reasoning](#)
- [Inductive Reasoning - Mathispower4u](#)

## Lesson 2: Exploring the Validity of Conjectures

### Absolute Value Workbook:

Mathematical Reasoning: Lesson 3 -- Pages 79 - 86

### Video Links:

- [1.2 Exploring the Validity of Conjectures](#)

## Lesson 3: Using Reasoning to Find a Counterexample to a Conjecture

### Absolute Value Workbook:

Mathematical Reasoning: Lesson 1 -- Pages 63 - 72

### Video Links:

- [1.3 Using Reasoning to Find a Counterexample to a Conjecture](#)

## Lesson 4: Proving Conjectures: Deductive Reasoning

### Absolute Value Workbook:

Mathematical Reasoning: Lesson 2 -- Pages 73 - 78

### Lesson Links:

- [The Difference Between Inductive and Deductive Link \(thatquiz.org\)](#)

### Video Links:

- [1.4 Proving Conjectures Deductive Reasoning](#)

## Lesson 5: Proofs That are Not Valid

### Absolute Value Workbook:

Mathematical Reasoning: Lesson 3 -- Pages 79 - 96

### Lesson Links:

- [IndiaBix.com -- Logical Reasoning: Analyzing Arguments](#)

## Lesson 6: Reasoning to Solve Problems

### Absolute Value Workbook:

Mathematical Reasoning: Throughout Lessons 1 - 3

### Lesson Links:

- [IndiaBix.com -- Logical Reasoning: Logical Problems](#)
- [Logic Puzzles -- http://www.folj.com](http://www.folj.com)

### Video Links:

- [1.6 Reasoning to Solve Problems](#)

## Lesson 7: Analyzing Puzzles and Games

### Absolute Value Workbook:

Mathematical Reasoning: Lesson 4 -- Pages 87 - 96