

Inductive and Deductive Reasoning

Organizing Topic:

Reasoning and Proof

Overview:

Students practice inductive and deductive reasoning strategies.

Related Standard of Learning:

7-8

Objectives

- The student will use inductive reasoning to make conjectures.
- The student will use logical arguments to prove an algebraic conjecture.
- The student will justify algebraic truths, including those regarding sets, using properties of real numbers and properties of equality.
- The student will write basic equations as a form of deductive proof.

Prerequisite Knowledge/Skills/Concepts

- Students must be able to differentiate between inductive and deductive reasoning.
- Students must be familiar with the definitions of addition and multiplicative properties.
- Students must know how to read and analyze word problems.
- Students must be able to recognize and identify the use of variables in equations.

Instructional activity

1. Review the basic vocabulary included in the activity sheet.
2. Have students work in pairs or small groups to complete the activity sheet.
3. Use the algebraic properties of equality to write an identity. Show to the students, demonstrating, applying to the steps of a proof of addition for writing.

Follow-up activities

- Have students investigate possible proofs for verifying inductive or deductive reasoning.
- Have students create their own conjectures to prove or disprove.

Example assessment

- Have students work in pairs to create a strategy.
- Use activity sheets to help assess student understanding.
- Have students complete a journal entry comparing and contrasting inductive and deductive reasoning strategies.

Specific questions for differentiating this lesson

Preknowledge

- Have students use a calculator to make simple calculations and compare their findings.

Assessment

- Use an overhead projector to discuss the steps to inductive and deductive reasoning.
- Have two rows large triangles on the board. (Use triangles to set place 2 on the board, point side up. Use other triangles to show place 3 on the board point side down. Place 4 given below

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**Sandra Parks, Howard Black, Sandra
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