

# Inquiry-Based Mini Lesson Plan

## "Teaching with Material Objects" – Abacus

**Developed by:**

David Stahler  
Holy Name High School

Lauren Youngs  
Muhlenberg Middle School

**Name of lesson:**

Algebra 1

**Discipline:**

Math

**Target grade(s):**

7<sup>th</sup> – 10<sup>th</sup>

**Pennsylvania Standards Addressed:**

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### Lesson Plan Procedure

**A. Show a picture of the object to your class prior to visiting the Freyberger School. Be sure to:**

- Determine students' prior knowledge of the content;
- Introduce the lesson and how you will motivate or capture the students' attention;
- Determine how you will assess if the learning objective(s) was/were met.

**B. Follow the step-by-step procedures that engage students in inquiry based learning.**

**1. Descriptive Analysis:**

- How many beads?
- How many rows

**2. Apply Prior Knowledge:**

- Is there anything we learned in math where 12 is significant

**3. Raise Questions:**

- Is there anything we have in class that would not have existed?

**4. Develop Interpretation/Hypothesis Based on Evidence:**

- Who would use math?
- When am I going to use this?

**5. Review:**

- Lifestyles/needs
- Math as a tool

**6. Apply Information:**

- Math now vs. Math then
  - 1. Study → Curriculum
  - 2. → Application
  - 3. →

**7. Share Information:**

