

Objective

By the end of this lesson, Shawn will be able to apply scientific knowledge to solve problems and make decisions that benefit the community.

Materials and Prep

Materials: Paper, pencil, ruler, various household items for experiments

Prep: Familiarize yourself with the scientific method

Activities

- Experiment Time!

Set up a simple experiment using household items to observe a scientific concept in action.

- Community Problem Solving

Brainstorm a list of problems in your community that could benefit from a scientific approach to find solutions.

- Design a Solution

Choose one problem from the list and design a solution using scientific knowledge. Draw or describe your solution.

Talking Points

- **Observation:** "Science starts with observing things around us. What can you observe in your environment?"
- **Hypothesis:** "After observing, we make a guess called a hypothesis. What is your guess about how something works?"
- **Experimentation:** "To test our hypothesis, we conduct experiments. What kind of experiment can you do to test your guess?"
- **Analysis:** "After the experiment, we analyze the results. What did you learn from your experiment?"
- **Community Impact:** "Using science, we can help solve problems in our community. How can your scientific knowledge help improve your community?"