



Science Virtual Learning

6th Grade Science:

Scientific Method

May 4, 2020



6th Grade Science
Lesson: May 4, 2020

Objectives/Learning Targets:

Students will be able to name and describe the steps of the Scientific Method.



Warm Up

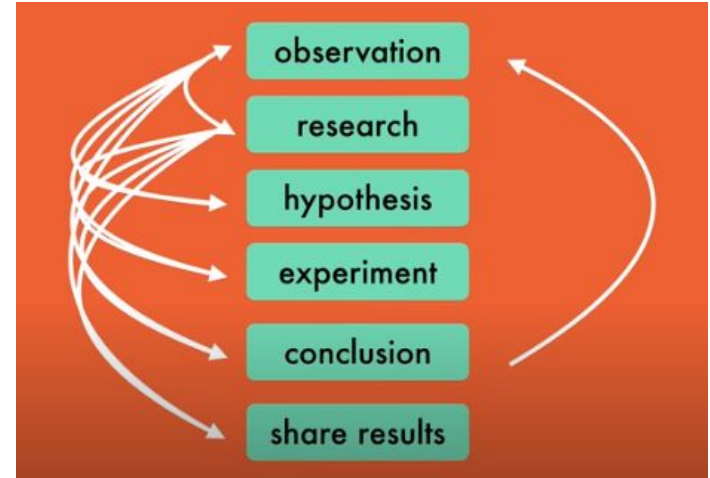
Think about the following questions: What steps do you take to solve a problem? For example, when you lose something, what do you do?

Watch this [video](#) to learn more!



Scientific Method

- The scientific method is a process that is used to find answers to questions about the world around us.
- The scientific method begins with the identification of a problem, or a question to be answered based on observations of the world around us and provide an appropriate method for conducting and analyzing an experiment.



Practice

Watch the Study Jams [video](#), then test your knowledge by taking the quiz.

SCIENTIFIC INQUIRY

Scientific Methods

Scientists are always working to better understand the world. They use the scientific method to help them. The scientific method includes making observations, developing hypotheses, designing experiments, collecting data, and then drawing conclusions.

PLAY VIDEO **Sing Karaoke** **Test Yourself**

Key Vocabulary

- scientific method
- hypothesis
- conclusion
- observation
- experiment
- data

The image shows a digital interface for a lesson on scientific methods. It features a dark blue background with a light blue sky and yellow ground. On the right, there is a video player showing a cartoon girl with black hair sitting on a bench in a park, looking at a red bird feeder hanging from a tree branch. The video player has a 'Print' icon in the top right corner. The main content area includes a title 'Scientific Methods', a paragraph of text, and three interactive buttons: 'PLAY VIDEO', 'Sing Karaoke', and 'Test Yourself'. Below the text is a 'Key Vocabulary' section with two columns of terms.



Practice

Each sentence below describes a step of the Scientific Method. Match each sentence to the correct step of the Scientific Method. Check your answers on the next slide.

1. Susan said, “If I fertilize my plants, they will blossom”.
2. Angela’s experiment proved that earthworms move away from light.
3. Bob read about growing plants in water. He wanted to know how plants could grow without soil.
4. Rene grew bacteria from the mouth on plates. She placed drops of different mouthwashes on the bacteria.

- A. Recognize a problem
- B. Form a hypothesis
- C. Test the hypothesis with an experiment
- D. Draw conclusions

Practice - Answer Key

Each sentence below describes a step of the Scientific Method. Match each sentence to the correct step of the Scientific Method. Check your answers on the next slide.

1. Susan said, “If I fertilize my plants, they will blossom”.
2. Angela’s experiment proved that earthworms move away from light.
3. Bob read about growing plants in water. He wanted to know how plants could grow without soil.
4. Rene grew bacteria from the mouth on plates. She placed drops of different mouthwashes on the bacteria.

- A. Recognize a problem
- B. Form a hypothesis
- C. Test the hypothesis with an experiment
- D. Draw conclusions

Additional Practice

1. [The Scientific Method of Taking a Selfie](#)
2. Think Like a Scientist in this [video](#).
3. Read the [ReadWorks](#) article and answer the questions.
Check your answers using the [answer key](#).

