



Why Are Scientists Objective? Benchmarks

Big Idea 1: The Practice of Science

- SC.7.N.1.5 Describe the methods used in the pursuit of a scientific explanation as seen in different fields of science such as biology, geology, and physics.
- SC.8.N.1.5 Analyze the methods used to develop a scientific explanation as seen in different fields of science.
- SC.8.N.1.6 Understand that scientific investigations involve the collection of relevant empirical evidence, the use of logical reasoning, and the application of imagination in devising hypotheses, predictions, explanations and models to make sense of the collected evidence.

Big Idea 2: The Characteristics of Scientific Knowledge

- SC.6.N.2.3 Recognize that scientists who make contributions to scientific knowledge come from all kinds of backgrounds and possess varied talents, interests, and goals.
- SC.8.N.2.2 Discuss what characterizes science and its methods.



Why Are Scientists Objective? Vocabulary Sheet

Objective/Objectivity: The ability to perceive or describe something without being influenced by personal emotions or prejudices.

Subjective/Subjectivity: Interpretation based on personal opinions or feelings rather than on external facts or evidence

Salinity: The amount of salt dissolved in a body of water.

Thermal Tolerance: The temperature range a species can experience without dying.



Why Are Scientists Objective? Guiding Questions

1. What is objectivity? Why is it important for scientists to be objective?
2. What is aquaculture? Why is research on aquaculture important?
3. Give at least two examples of how the narrator ensured objectivity as she carried out her experiment.