

Nature of Science Paper

After all the readings, I chose the tenant about the Nature of Science as a method of exploring, understanding, and testing the observable world. Science strives to be objective and unbiased- based on facts and avoid allowing personal preferences and opinions to skew those facts. Actual science demands clear facts to claim about phenomena.

The first tenant is made after observing the world around us. Children learn about science by observing, experimenting, and manipulating different elements of the natural world while answering questions. It is crucial to validate students' questions and scientifically answer them. We use a rich science vocabulary in my classroom, and I expect students to use it at all times. The second tenant depends on practical evidence to produce scientific knowledge. Any scientific explanation must be consistent with empirical evidence, and new evidence brings the revision of scientific knowledge. In my classroom, we collect data. Students collected evidence of plants, rocks, weather, etc. After collecting this data, we discussed it as a group and represented it in a chart or science notebook.

The third tenant is inferential. Scientists require imagination and creativity to make inferential statements about what they see.

The fourth tenant is science's subjective and theory-laden nature. My students come to the classroom with different background knowledge. All observation is preceded by approach and conceptual understanding. Science tries to overcome this lack of pure objectivity through the scientific community.

Lastly, the fifth tenant is society, and culture affects science. My school encourages students to implement the three pillars of bilingual education. The third pillar is culturalism. We all come from different backgrounds, and showing love and respect to other cultures is essential. Finally, our last Science fair reflected an amazing scientific community of learners, where parents participated actively, asking questions and providing scientific feedback.

Lastly, I would like to thank you for helping me write about the Nature of Science. I had a difficult start because I was unsure how to put all my thoughts together. As a first-grade teacher, I've already put different STEM components together. I think the Nature of Technology is fascinating, too, and I would like to dig deeper into it during the next few weeks. I am my school's lego coordinator; students love building Lego and coding the robots. Even 6-year-olds can do it.