

Forming a research project using the scientific method: a research experiment on maple syrup production

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Abstract: The purpose of this activity is to introduce high school freshmen to the scientific method and report writing through the design, implementation, and analysis of a semester-long experiment. The students were responsible for designing a research project on sap production in maple trees beginning with the formation of a research question and ending with a full research report written in standard scientific format.

Grade level: 9th (Botany)

Objectives: 1) Introduce students to the scientific method, 2) give student real-life experience designing and analyzing a research project, 3) use a local resource (woodlot) for place-based learning, and 4) provide students with practice writing a scientific report.

National Standards: Understanding of:

- * Scientific inquiry
- * Natural resources

Ohio Benchmark and Academic Content Standards – Grade 10:

Life Science: D.10

Describe how cells and organisms acquire and release energy (photosynthesis, chemosynthesis, cellular respiration and fermentation).

Life Science: D.11

Explain that living organisms use matter and energy to synthesis a variety of organic molecules (e.g., proteins, carbohydrates, lipids and nucleic acids) and to drive life processes (e.g. growth, reacting to the environment, reproduction and movement).

Scientific Inquiry: A.2

Present scientific findings using clear language, accurate data, appropriate graphs, tables, maps and available technology.

Scientific Inquiry: A.4

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In a world used by monitors and the ceaseless chatter of fast conversation, the melodic splendor and mental symphony produced by the published term often disappear into the backdrop, eclipsed by the persistent sound and disturbances that permeate our lives. However, set within the pages of **Scientific Method Research Paper Example** a marvelous literary value filled with fresh emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this fascinating masterpiece conducts visitors on an emotional journey, well unraveling the hidden songs and profound influence resonating within each carefully constructed phrase. Within the depths of this poignant evaluation, we can investigate the book is main harmonies, analyze its enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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