

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

Scientific Method Research Paper

AA. VV.



Scientific Method Research Paper:

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Scientific Method Research Paper**

In a world inundated with screens and the cacophony of immediate interaction, the profound power and emotional resonance of verbal art frequently diminish in to obscurity, eclipsed by the constant assault of noise and distractions. However, nestled within the musical pages of **Scientific Method Research Paper**, a fascinating work of fictional brilliance that pulses with natural feelings, lies an remarkable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, this interesting opus manuals viewers on a psychological odyssey, softly revealing the latent potential and profound impact embedded within the complicated web of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is key themes, dissect its charming writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

https://crm.avenza.com/files/Resources/HomePages/Pat_Functional_Writing_Grade_6.pdf

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