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Crash Course Biology #2: The Scientific Method

Name: _____ Date: _____

You can access the video here → https://youtu.be/hQLeZMw0hd4?si=RNF3ecSSTQ_U90d9

- Science comes from a Latin verb meaning to "_____."
- The process of discovery and knowledge in science has been formalized with the _____.
- A _____ is a testable explanation or reasonable prediction of what will happen in an experiment.
- Indigenous Alaskans have observed thinning _____ and declining salmon populations as evidence of climate change.
- The scientific method includes six steps: observation, question, _____, experiment, analysis, and conclusion.
- The structure of _____ was revealed in 1953, helping scientists understand how genes encode proteins.
- Dr. Luis Federico Leloir and his team used a _____ to separate fluids at high speeds.
- A _____ is a broad explanation supported by a large body of evidence and accepted by the scientific community.
- The first law of thermodynamics states that _____ cannot be created or destroyed.
- Before research is published, it undergoes _____, where other experts in the field review it.
- The ability to create, organize, understand, and communicate data is known as _____.
- _____ are representations of scientific theories or processes, used to explain and predict phenomena.
- Mathematical models can be used to simulate real-life events, such as predicting future _____ patterns.
- Science can answer whether we can clone a mammoth, but it cannot determine whether we _____ clone one.
- Scientists tracking wolf populations can use their data to help create _____ that protect them.

Crash Course Biology #2: The Scientific Method – KEY

- Science comes from a Latin verb meaning to "**know**".
- The process of discovery and knowledge in science has been formalized with the **scientific method**.
- A **hypothesis** is a testable explanation or reasonable prediction of what will happen in an experiment.
- Indigenous Alaskans have observed **thinning sea ice** and declining salmon populations as evidence of climate change.
- The scientific method includes six steps: observation, question, **hypothesis**, experiment, analysis, and conclusion.
- The structure of **DNA** was revealed in 1953, helping scientists understand how genes encode proteins.
- Dr. Luis Federico Leloir and his team used a **centrifuge** to separate fluids at high speeds.
- A **scientific theory** is a broad explanation supported by a large body of evidence and accepted by the scientific community.
- The first law of thermodynamics states that **energy** cannot be created or destroyed.
- Before research is published, it undergoes **peer review**, where other experts in the field review it.
- The ability to create, organize, understand, and communicate data is known as **data literacy**.
- Models** are representations of scientific theories or processes, used to explain and predict phenomena.
- Mathematical models can be used to simulate real-life events, such as predicting future **weather** patterns.
- Science can answer whether we can clone a mammoth, but it cannot determine whether we **should** clone one.
- Scientists tracking wolf populations can use their data to help create **policies** that protect them.

15 Questions

Answer Key Included

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