Science AMI-Cothran

Day 1: Observe Phenomena

- INFO: A Phenomena is an observed event
    - An observation is collecting data with your five senses
- **Your assignment**: Observe 5 phenomena today that draw your curiosity.
- Example: I have seen that snow melts on our roof before it melts on the ground.
- Write them here:
    - 1.
    - 2.
    - 3.
    - 4.
    - 5.

Day 2: Ask Scientific Questions

- Remember: a scientific question is always testable!
- Choose one of your phenomena from day 1.
- Write 5 scientific questions that could begin an experiment based on that phenomenon.
- Example: why does snow melt on our roof before melting on the ground?
- Record them here:
    - 1.
    - 2.
    - 3.
    - 4.
    - 5.

Day 3: Form a Hypothesis

- Choose one of your scientific questions from day 2.
- Form a hypothesis for this question.
- Remember: a hypothesis is your suggested explanation to a scientific question.
- Your hypothesis should use the if, then format.
- Your hypothesis should include an explanation: a “because”.
- Example: If snow is on a roof without inside heat and on a roof with inside heat, the snow will melt first on the roof with inside heat. This occurs because: if a building is not well insulated the inside heat escapes first to the roof: melting the snow on the roof.
- Hypothesis:
  _____
  _____
  _____
  _____

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Day 4: Design an Experiment

- Design a step by step procedure to test your hypothesis from day 3.
- Be sure to be very detailed and clear on each step! List the steps with a number.
- Procedure:

Day 5: Experimental Elements

- Identify the following for your experiment from day 4:
    - Independent Variable: _____
    - Dependent Variable: _____
    - Constants: _____
    - Control Group: _____
- Construct a data table for collecting your experimental data. Draw it below: