

7th & 8th Grade Science Summer Assignment

Objective: To introduce (7th) and reinforce (8th) the scientific inquiry process, otherwise known as the Scientific Method, through actual observations and inquiry.

Assignment

(Note: This assignment will be written down during the summer and then transferred to a Google Classroom assignment on the first day that students have their laptops.)

Rules

Keep it simple, but don't be lazy. I can smell "lazy", and it will not be accepted.
Challenge yourself. Pick a phenomenon that you really don't know why it works. There are no "wrong" answers here. We are developing our ability to use and understand a "Process".

Part 1: Observe

Identify an interesting physical/natural phenomenon. Observe and describe it in painstaking detail please.

Part 2: Explain Why or How it works. (The Hypothesis)

Develop an explanation using your own logic and wits as to why the phenomenon occurs, based on your observation(s).

Part 3: Develop a Test of your explanation.

Using your best ability, propose and/or develop a way to test your explanation.