



Module 1: Developing Research Questions and Finding Supporting Sources

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Part 1: Review of the Scientific Method

Now that Gemma walked us through her first experiment, let's review how she actually implemented the scientific method. In the table below describe what Gemma actually did as she applied the scientific method to her question.

Scientific Method Step	What Did Gemma Do?
Observation	
Hypothesis	
Experiment	
Analysis	

Part 2: Observation and Background Research

What is Gemma's Question?

Now that Gemma finished her first experiment, she needs to try again and test a new hypothesis. In order to develop this new we need to do background research. Let's start with a google search and see what we get.

Conduct the google search below



color of sand





Module 1: Developing Research Questions and Finding Supporting Sources

From your google search recommend two sources you would have Gemma rely on for each stage of her research. Please list the name of the source (aka website name)

Stage 1 General Learning	Stage 2 Specific Learning
1. 2.	1. 2.

Lets click on this link and read the first paragraph to get another idea of something to test

<http://scienceline.ucsb.edu> › getkey

Why have beach sands different colors? - UCSB Science Line

The color of sand grains comes from the original material that formed the sand. For example, white sand on tropical beaches is pulverized pieces of dead coral.

From this paragraph, why can sand be different colors?

Part 3: What should my topic be?

In order to pick your project we need to identify what interests you have from anywhere in your life and try to match that to an interesting scientific question. Just circle five topics you find exciting and then we will discuss with your mentors about how we can turn those into potential projects:

CIRCLE 5 THINGS YOU ARE INTERESTED IN LEARNING MORE ABOUT!!



Machines/
Robots



Computers



The Brain



Chemical
Reactions



Space



Gardening



Animals



Sports



Health/
Medicine



Cosmetics



People's
Behaviors



Natural
Disasters



Climate
Change



Buildings/
Bridges



Colors

You are now ready for the next mentorship session!!! See you soon!