

COLEGIO BRITÁNICO INTERNACIONAL			
Group	: 7 <sup>th</sup>	Academic Year	: 2023-2024
Teacher	: Eng. Diana Vaca	Date	: 2024
Student's Name	:		



Read the following document and answer the presented questions, the grading matrix is as follows per question:

Grammar accuracy	0.25
Spelling accuracy	0.25
Concept accuracy	0.25
Correct answer	0.25

\*\*Each question will be graded with this matrix: 1 point each

### Embarking on a Journey of Discovery with the Scientific Method

Greetings, inquisitive adventurers! Today, we are set to plunge into the interesting realm of the scientific method, an extraordinary tool that empowers us to unravel the mysteries of how things function in the world around us. Picture yourself as a detective of knowledge, equipped with the scientific method as your superpower. This method acts as a set of guiding steps that illuminate our path in solving the enigmas of the world. It all commences when we cast our gaze upon something intriguing, something that sparks the question, "why?"

In this initial step, we take a moment to observe something captivating or unusual. Perhaps you've noticed that plants seem to flourish more rapidly when watered every day. That, in itself, is truly astonishing!

Observations then naturally lead us to pose questions. Why do certain plants exhibit faster growth than others? How does the presence of water influence their overall growth?

This is the point where our inquisitive minds take flight, and we make informed conjectures. These educated guesses are termed "hypotheses." For instance, we might posit that plants experience accelerated growth because water serves as a source of energy.

Now enters the enjoyable stage: the experiment. We meticulously devise an experiment to analyze and validate our hypothesis. One possible scenario could involve planting two distinct groups of seeds, administering ample water to one group and a lesser amount to the other, followed by a keen observation of the outcomes.

Following the execution of our captivating experiment, we transition to the phase of data analysis. This is where we metamorphose into genuine scientists. Did the plants that received more water indeed manifest a swifter rate of growth? We diligently scrutinize the data to unearth the answer.

Finally, we arrive at a conclusion. Was our initial hypothesis accurate? Does the provision of water genuinely expedite the growth of plants? It's similar to unraveling a puzzle and unveiling the solution, all thanks of the scientific method!

Now, why does this splendid method bear such significance? It's because it furnishes us with a profound understanding of the world. Moreover, it's not exclusively reserved for scientists adorned in white lab coats; you too can wield its power in your everyday life.

Envision pondering the reason behind your ball bouncing more energetically on a hard surface as opposed to a carpeted one. Enter the scientific method! Observe, pose questions, make educated conjectures, and conduct uncomplicated experiments. Before you know it, you might find yourself donning the mantle of a scientist specializing in the physics of bouncing balls!

Consider, as another example, the scenario of creating a recipe. Ever wondered why you incorporate yeast into your bread dough? Once again, employ the scientific method! Pose questions, conduct experiments (perhaps by baking two loaves, one with yeast and one without), and savor the delightful results.

In summary, the scientific method serves as a treasure map guiding us through the exploration and comprehension of the world. So, forge ahead, young scientists! Explore, discover, and revel in the scientific method!

1. What is the primary purpose of the scientific method, as described in the reading?

2. Explain the first and last steps of the scientific method using the example of the plant growth experiment.

3. Why is it important to carefully analyze data in the scientific method?

4. In the plant growth experiment, what was the specific factor that was manipulated to test the hypothesis?

5. Can you provide an example from your own life where you might use the scientific method?

6. What role does creativity play in the formulation of hypotheses and the design of experiments?

7. In your opinion, why is the scientific method not limited to scientists but can be used by everyone?

8. According to the reading, what is the ultimate goal when reaching a conclusion in the scientific method?

9. How does the scientific method contribute to a deeper understanding of the world?

10. If you were to explain the scientific method to a friend, how would you do it in your own words?