What is the Scientific Method?

back up	digested	easily	evidence	
goal	process	scientific method	scientists	
The scientific method is observations and answe Some areas of science castudying how stars changed forward a star's life by a hypotheses. When direct fact, there are probably But even when modified relationships by asking deseing if all the available Even though we show the or thinking might cause a process. A process like the iterative process. Whether you are doing a any other hands-on scientific que as well as possible.	r questions. Does this man be more ge as they age or how d million years or run me t experimentation is no as many versions of the l, the questions, carefully gath information can be cor as scientific method as a a scientist to the scientific method tha	tested than ot linosaurs tested than ot linosaurs tedical exams on feeding testentific method as the scientific method as the remains the same: to lering and examining the mbined into a logical area series of steps, keep i and repeat stat involves such backing the steps of the classroom science activing the steps of the	w exactly this proces hers. For example, so their food car g dinosaurs to test th odify the scientific m here are o discover cause and he hiswer. In mind that new info eps at any point duri g up and repeating is wity, independent res will	cientists nnot fast- neir nethod. In leffect , and ormation ing the s called an search, or I help you
Steps – put the steps int	o correct order.			
DRAW CONCLUSION	EXPERIMENT	HYPOTHESIZE	OBSERVE	
QUESTION	REPORT F	RESEARCH	ST HYPOTHESIS	

Sources:

https://www.sciencebuddies.org/science-fair-projects/science-fair/steps-of-the-scientific-method https://untamedscience.com/biology/scientific-method/



What happens in each step?

This is what we've all been waiting for—what is the answer to the question? In this step, scientists take a step back, look at the data, and decide whether to accept or reject the hypothesis. Sometimes the conclusion is pretty straightforward, but scientists always do statistical tests just to make sure they're reading the results correctly.

A hypothesis is a statement of what you think the answer to your question is. It's different from the question you formed because it's answering the question you developed with a specific prediction that you'll go on to test. A good hypothesis should be falsifiable, meaning that it's possible to prove it wrong.

You can't study what you don't know is there. This is why scientists are so curious—they're always looking for patterns, trends, questions, and problems that we don't understand. Once a scientist finds a really interesting pattern that they want to know more about, they move onto the next step.

How do you find an answer to your hypothesis? You conduct an experiment to test it! Depending on what a scientist is studying, an experiment can be very quick or take years—some experiments have even been going on for hundreds of years!

Designing a good experiment is a whole industry that some scientists spend their whole careers working on. But any good science experiment must always serve its one main function: to prove or disprove a hypothesis.

Once a scientist finds an interesting thing to study, they need to ask a question that hopefully they can answer.

You've just tested an important piece of information. It's something that nobody else in the world knows. What good is that knowledge if you keep it to yourself? The final step of the scientific process is to report your results. Scientists generally report their results in scientific journals, where each report has been checked over and verified by other scientists in a process called peer review.

To find out the answer to your question, you need to know what potential answers are. That's where background research comes in, remembering that not everything you read online is true. Use reliable sources, like Google Scholar.

Sources:

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