

# The scientific method: the way to generate knowledge

In all fields, science follows a method that allows the creation of knowledge. It is the best tool for finding solutions to challenges such as climate change or health-related issues.



1

## Observation

A phenomenon or situation that arouses curiosity is detected.

## Question and hypothesis

2

A question and a possible explanation (hypothesis) of the observed phenomenon are formulated.



3

## Experimentation

Tests or controlled experiments are designed and conducted to test the hypothesis.

4

## Analysis of results

The data obtained are interpreted to see if they support or refute the hypothesis.



5

## Conclusion and communication

Conclusions are drawn and results are disseminated so that others can verify or continue the research.



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