

WHAT DOES IT MEAN TO BE
A SCIENTIST?





WHAT IS SCIENCE?

The goal of science is to investigate and understand the _____, to explain events in the natural world, and to use those explanations to make useful _____.

WHAT IS SCIENCE?

Scientists collect and organize information in a careful, orderly way, looking for patterns and connections between events.

Scientists propose _____ that can be _____ by examining evidence.

Science is an organized way of using evidence to learn about the natural world.

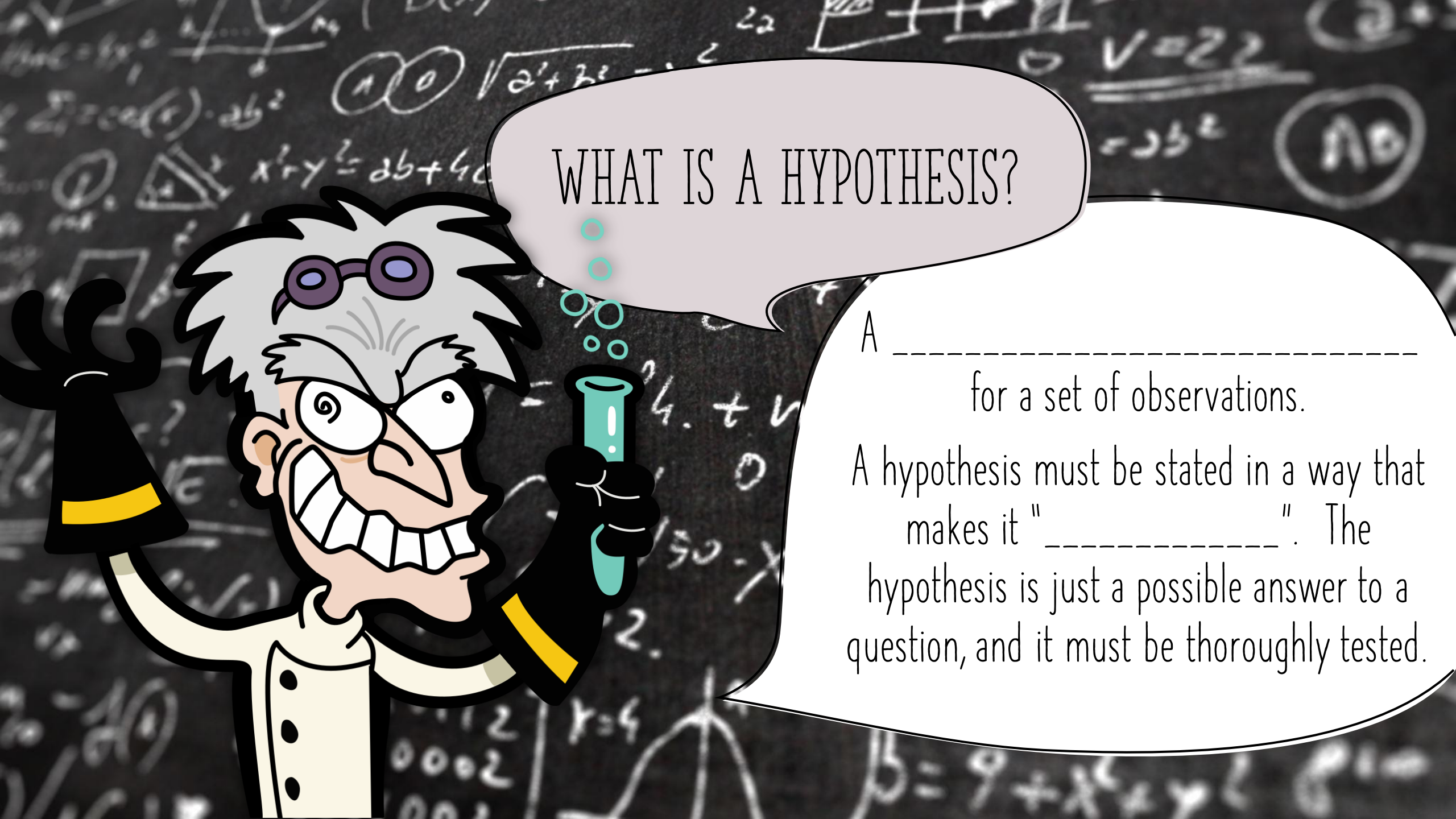
HOW IS SCIENCE DONE?

Science begins with an _____

This is the process of gathering information about events or processes in a careful, orderly way.

_____ is the information gathered from making observations.





WHAT IS A HYPOTHESIS?

A _____
for a set of observations.

A hypothesis must be stated in a way that makes it "_____". The hypothesis is just a possible answer to a question, and it must be thoroughly tested.

TYPES OF DATA

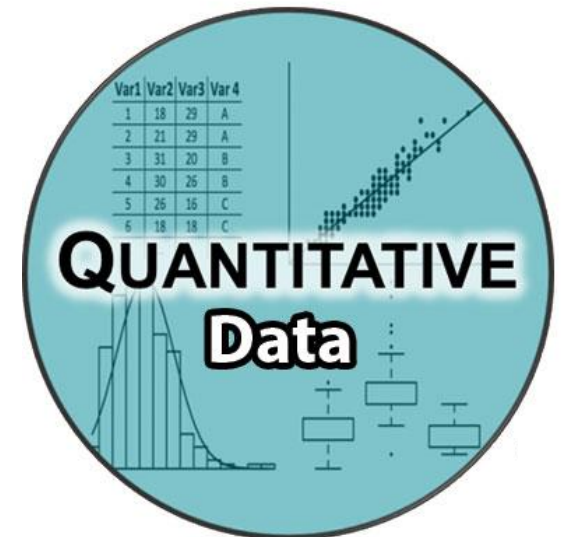
Qualitative Data

- Descriptions and involve characteristics that _____ be counted.
- Made using your senses to observe results.



Quantitative Data

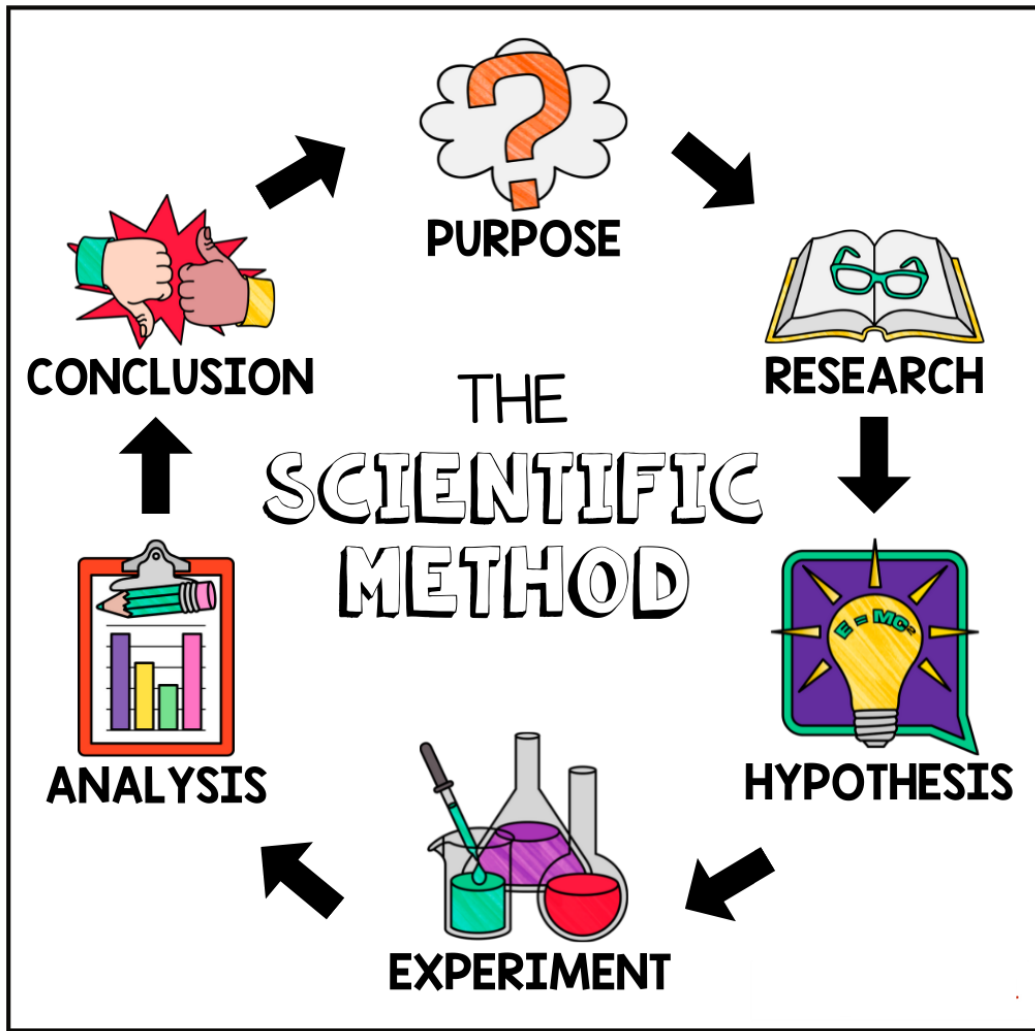
- _____, and are obtained by counting or measuring.
- Made using instruments (e.g. rulers, balances, thermometer, beakers, etc...)





THE SCIENTIFIC METHOD

Is a series of steps used by _____
to solve a _____ or
answer a _____.



THE SCIENTIFIC METHOD

The Steps to the Scientific Method:

- 1.
- 2.
- 3.
- 4.
- 5.

Scientific Method

