



▶ Homer notices that his shower is covered in a strange green slime. His friend Barney tells him that coconut juice will get rid of the green slime. Homer decides to check this out by spraying half of the shower with coconut juice. He sprays the other half of the shower with water. After 3 days of "treatment" there is no change in the appearance of the green slime on either side of the shower.

1. What was the initial observation?
- Identify the-
2. Control Group
3. Independent Variable
4. Dependent Variable
5. What should Homer's conclusion be?



- ▶ Lisa is working on a science project. Her task is to answer the question: "Does Rogooti (which is a commercial hair product) affect the speed of hair growth". Her family is willing to volunteer for the experiment.



Describe how Lisa would perform this experiment. Identify the control group, and the independent and dependent variables in your description.



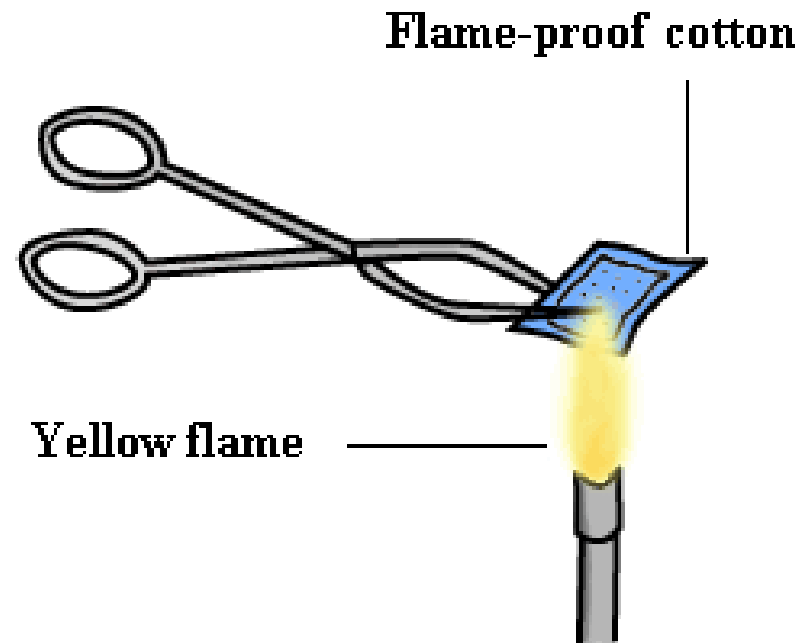
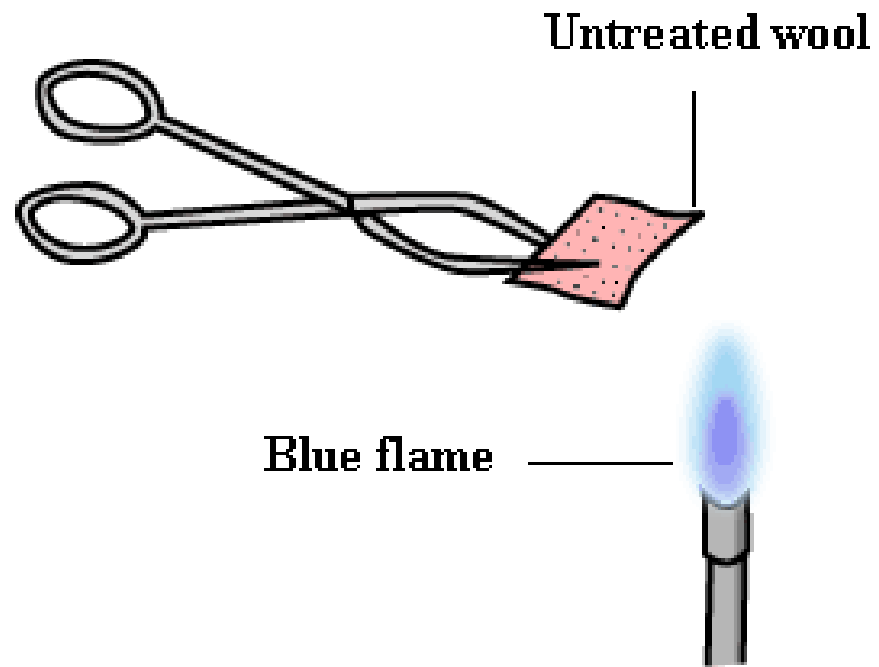
River Crossing Puzzles

<http://www.brainbashers.com/wolfgoatcabbage.asp>

Mazes

<http://www.brainbashers.com/dailymazes.asp>

Is this a fair test?





**Identify
the
variables**

COMPLETE IN INVESTIGATION PLANNER

METHOD (HOW WILL YOU PERFORM YOUR EXPERIMENT?)

MATERIALS (MAKE A LIST OF EQUIPMENT WILL NEED)

DATA (WHAT DATA WILL YOU RECORD AND HOW?)

ONCE YOU HAVE COMPLETED EACH TASK ADD A STICKER TO THE PROGRESS CHART

Types of data

Numerical data
or quantitative data

* numerical values

Discrete data

If you can count it,
then it is discrete.



Continuous data

If you can measure it,
then it is continuous.

* length



* weight



* temperature



Categorical data
or qualitative data

* categories

Nominal data

If you can brand it,
then it is nominal.

Gender
 Female
 Male

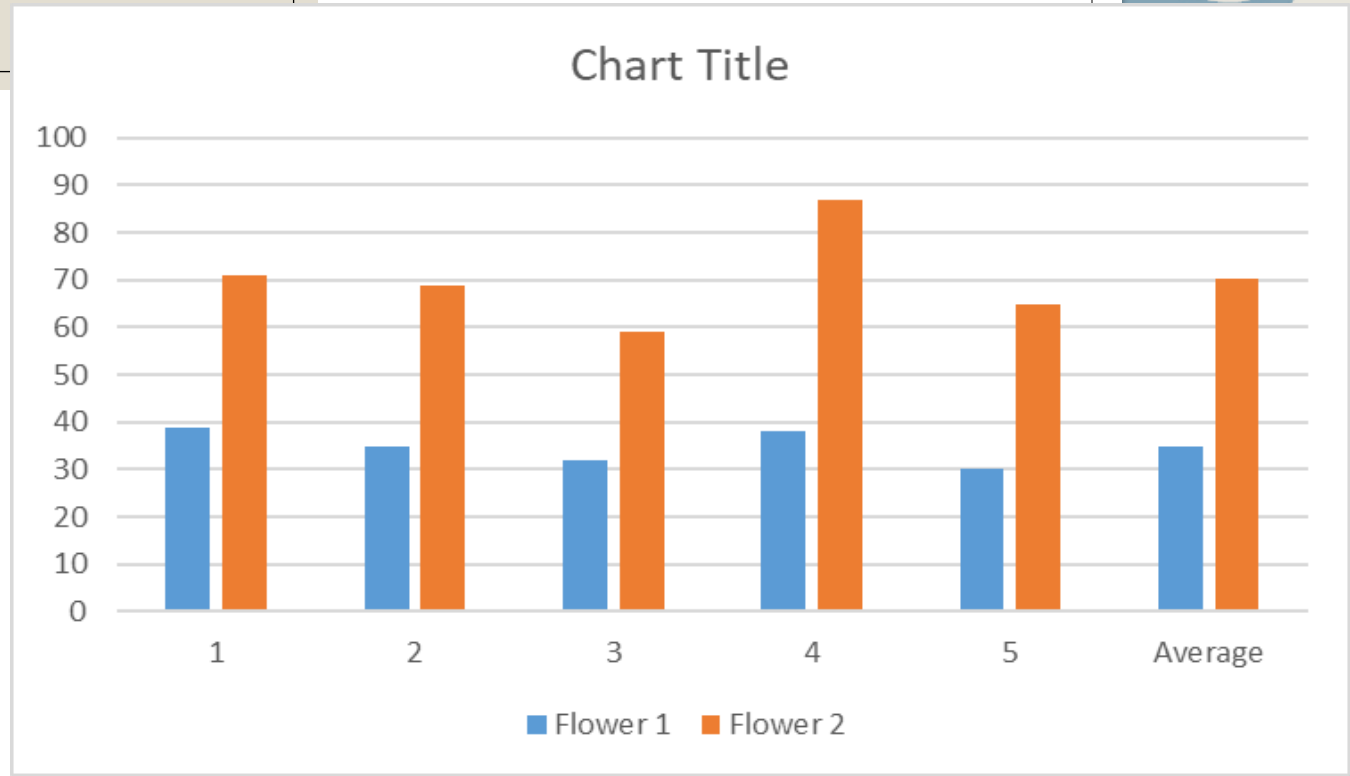
Colour
 blue
 red
 green
 orange

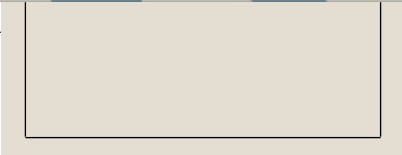
Ordinal data

If you can rank or order it,
then it is ordinal.

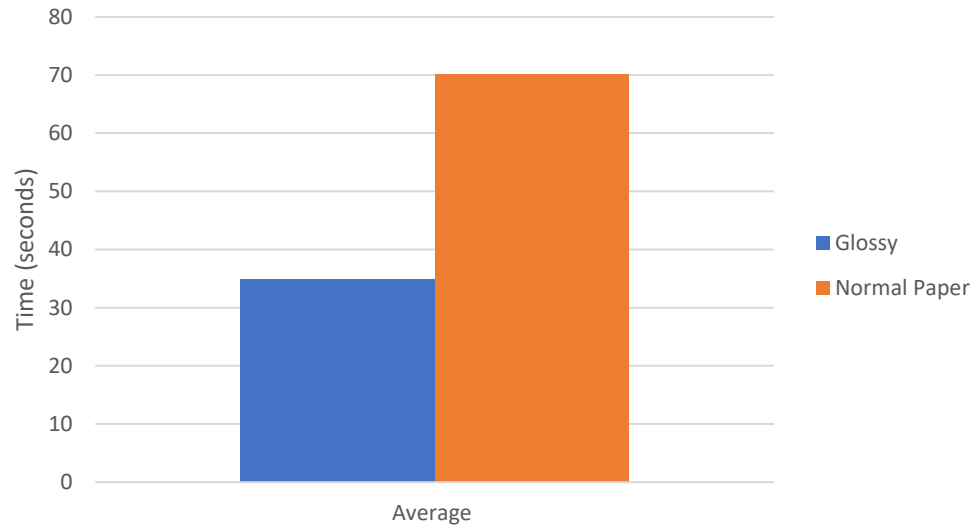
- Always
- Usually
- Sometimes
- Rarely
- Never

Opening Time		
Trial Number	Water flower 1 - Glossy	Water flower 2 – Paper
1	39 secs	71 secs
2	35 secs	69 secs
3	32 secs	59 secs
4	38 secs	87 secs
5	30 secs	65 secs
Average	34.8 secs	70.2 secs

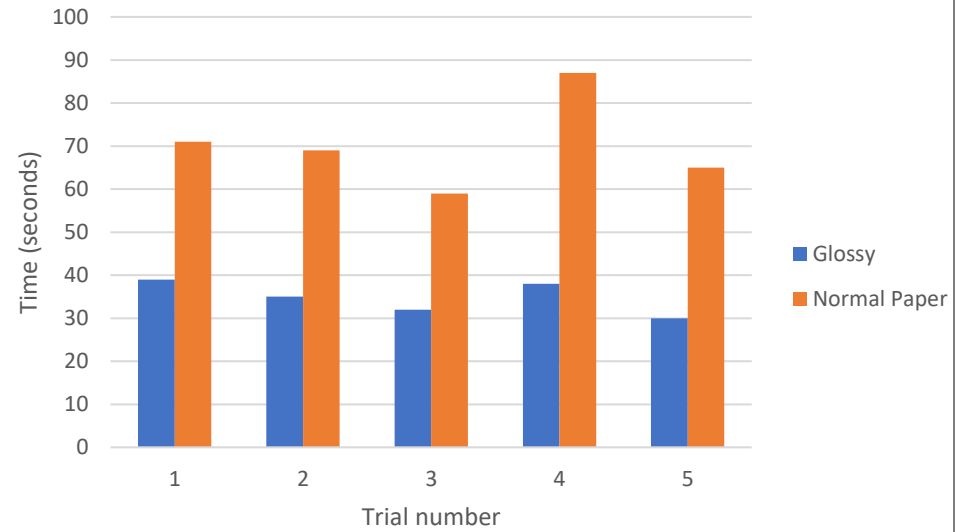




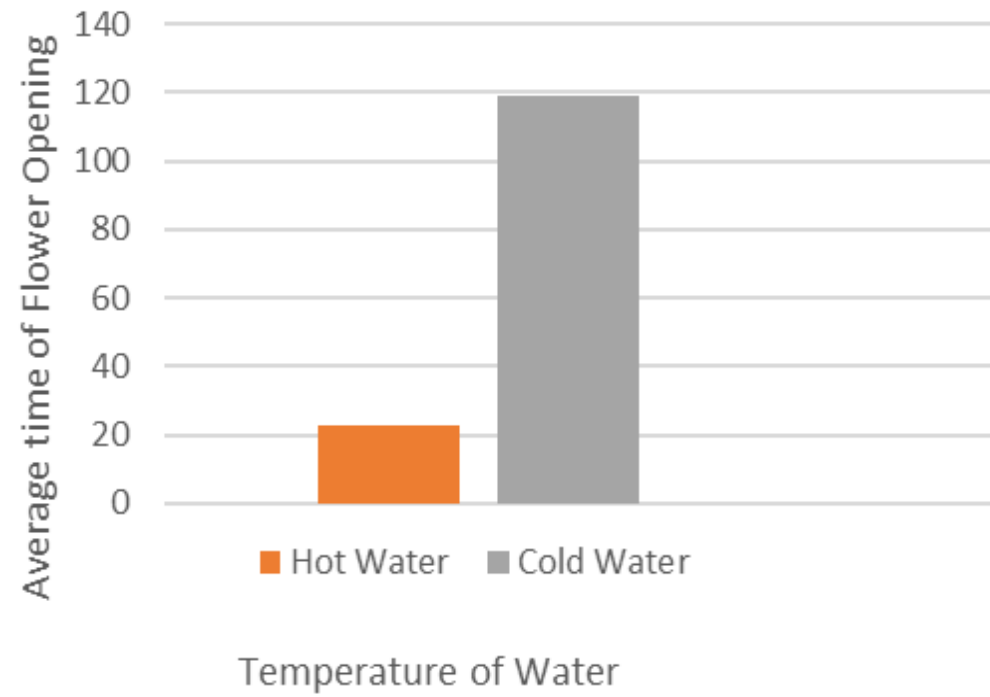
Water Flower Opening Time



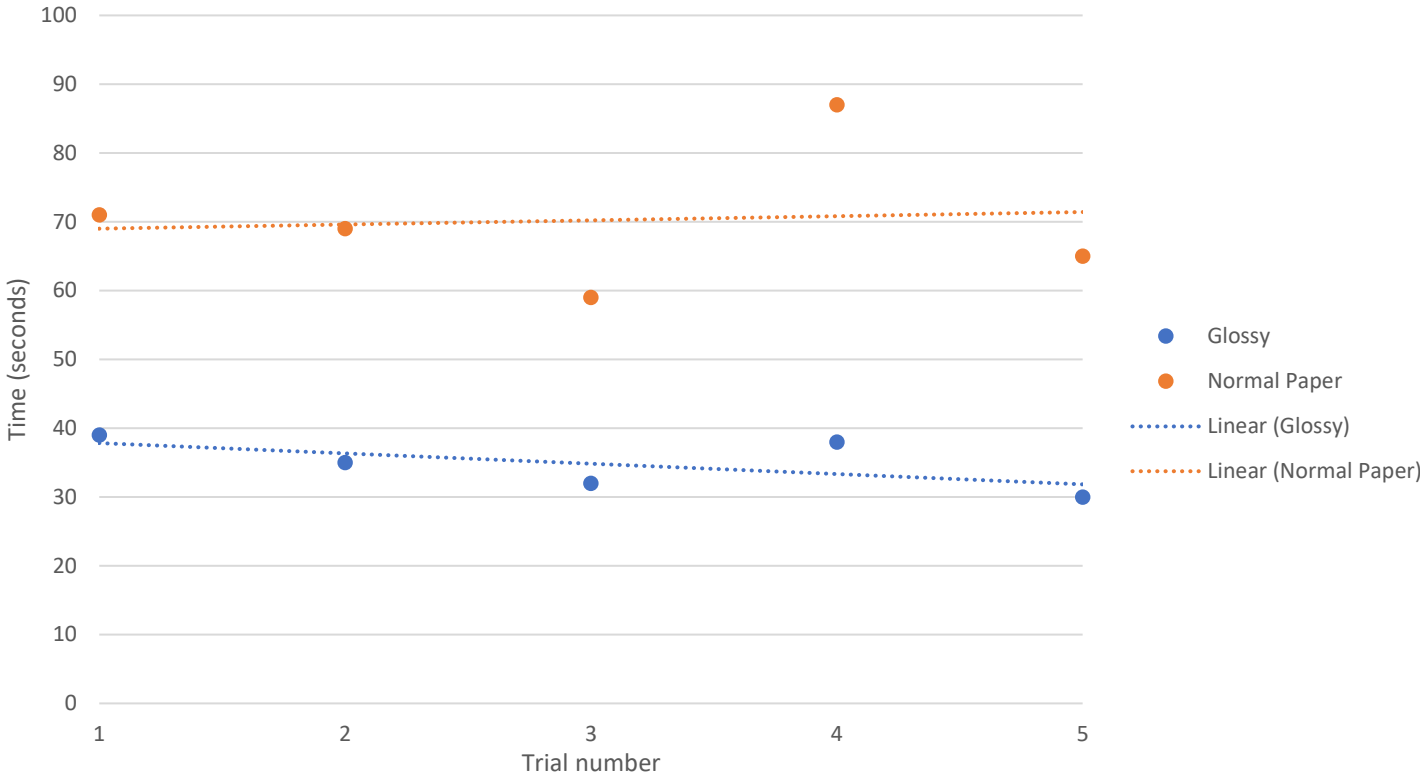
Water Flower Opening Time



Water Flower Experiment



Water Flower Opening Time



IMPORTANT THINGS TO THINK ABOUT

-WHY ARE YOU DOING THIS TEST?


-WHAT IS THE SCIENCE BEHIND THE TEST?

-WHO/WHAT WOULD THE RESULTS BE USEFUL FOR?

**ADD THIS INFORMATION TO THE BRAINSTORM PAGE IN
THE INVESTIGATION PLANNER (INCLUDE LINKS TO WHERE YOU
GOT THE INFORMATION)**

READY TO START TESTING?

**-ADD A STICKER TO THE REWARD CHART.
ONCE THE CHART IS FILLED YOU ARE
READY TO BEGIN YOUR FAIR TEST**



**UPLOAD YOUR
INVESTIGATION PLANNER
TO DAYMAP**

**Include the members of
your group in the file name**