

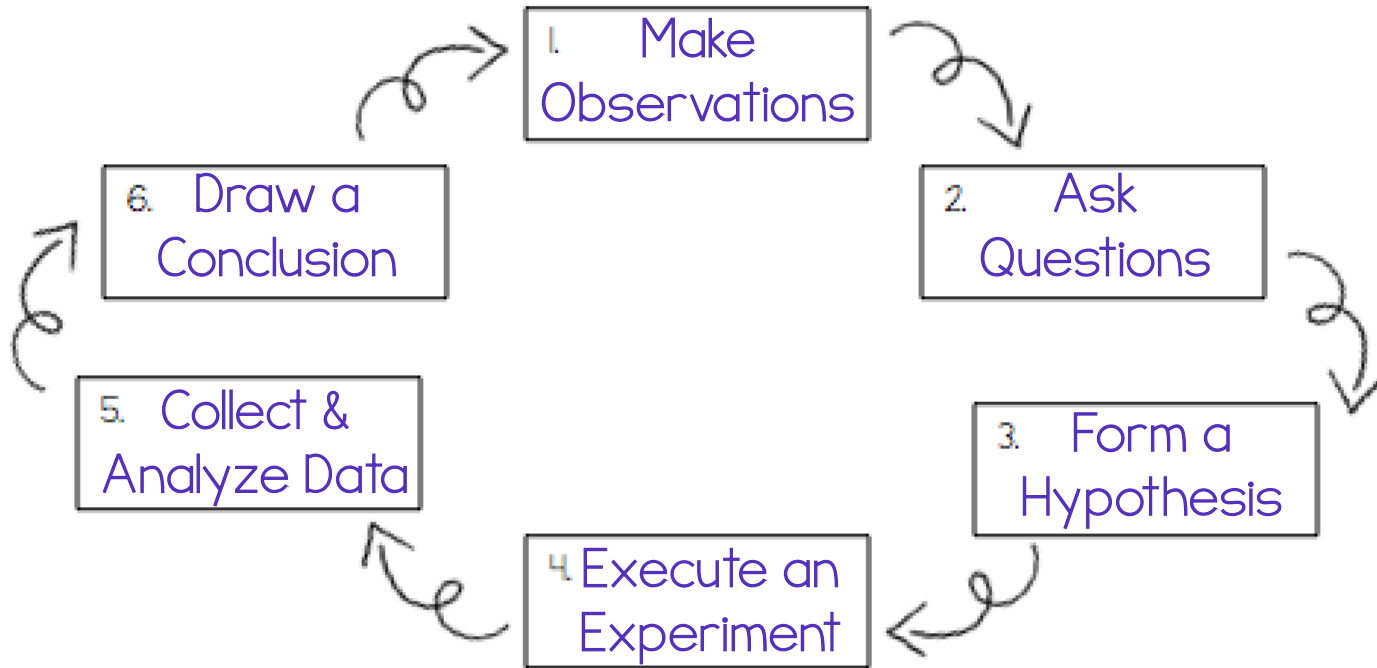
SCIENTIFIC SKILLS

TODAY'S OBJECTIVES:

I CAN FORM A REASONABLE HYPOTHESES TO EXPLAIN A
SCIENTIFIC PROBLEM

I CAN THE SCIENTIFIC VARIABLES IN A SCIENTIFIC PROBLEM
OR SCENARIO

SCIENTIFIC SKILLS



SCIENTIFIC SKILLS

1. QUALITATIVE

QUALITIES OR CHARACTERISTICS

USE YOUR FIVE SENSES

EXAMPLES:



SCIENTIFIC SKILLS

2. QUANTITATIVE

QUANTITIES, NUMBERS, AMOUNTS

MEASUREMENTS!

EXAMPLES:



SCIENTIFIC SKILLS

A HYPOTHESIS IS AN
IF THEN BECAUSE STATEMENT!

A HYPOTHESIS SHOULD LEAD TO AN
EXPERIMENT!

SCIENTIFIC SKILLS

QUESTION: HOW DOES THE TYPE OR WEIGHT OF PAPER AFFECT HOW LONG A PAPER AIRPLANE FLIES?

IF: WHAT YOU ARE GOING TO CHANGE

THEN: WHAT WILL HAPPEN BECAUSE OF CHANGE

BECAUSE: REASON WHY TO EXPLAIN THE "THEN"

SCIENTIFIC SKILLS

DEFINITIONS:

VARIABLE:

ANYTHING THAT CAN POSSIBLY CHANGE IN AN EXPERIMENT!

INDEPENDENT VARIABLE:

THE VARIABLE THAT YOU CHANGE!

(MANIPULATED VARIABLE!)

****IMPORTANT! → ONLY ONE INDEPENDENT VARIABLE!!!**

SCIENTIFIC SKILLS

DEFINITIONS:

DEPENDENT VARIABLE:

VARIABLE THAT "RESPONDS" TO YOUR CHANGE
(RESPONDING VARIABLE)

CONTROLLED VARIABLES:

VARIABLES THAT MUST BE KEPT THE SAME!
(REMEMBER: ONLY ONE INDEPENDENT VARIABLE)

SCIENTIFIC SKILLS

VARIABLE EXAMPLES:

INDEPENDENT:

TYPE OF PAPER USED FOR PLANE

DEPENDENT:

HOW LONG OR HOW FAR PLANE FLIES

CONTROLLED:

SHAPE OF PLANE, HOW YOU THROW IT...

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