



Steps to I



STEP 1: INITIATING

What did I observe?

(What do you notice about the object or event? Record quantitative and/or qualitative observations to describe the object or event.)

W
ob

Inquiry

ING THE EXPERIMENT

What am I wondering?

(What questions or predictions do you have about the object or event?)

Labeled diagram:

STEP 2(A): WHAT COULD ABOUT THE OBJECT



- Brainstorm *(Place sticky notes of the same*

Variable

Variable

Variable

ULD I CHANGE OR VARY CT OR THE EVENT?

(Use the same colour in the squares below.)

Variable

Variable

Variable

STEP 2(B): WHAT C
OBSERVE ABOUT THE C

- Brainstorm (*Place sticky notes of a new color*)

Dependent
Variable

COULD I MEASURE OR
OBJECT, OR EVENT?

colour in the squares below.)

Dependent
Variable

STEP 3: WHAT WILL I CHANG



CHANG

- Choosing V

Independent variable I will chang

Independent
Variable

(Place a sticky note from Part B(i) here)

Controlled Variables I will NOT

(What conditions will be held constant so it is a fair test?)

Place remaining sticky notes from Part A here.

Controlled
Variable

I CHANGE AND NOT CHANGE?

g Variables

Change: I will measure or observe
this result:

Dependent
Variable

(Place a sticky note from Part B(ii) here)

NOT change:

Controlled
Variable

Variable

Controlled
Variable

Controlled
Variable

Variable

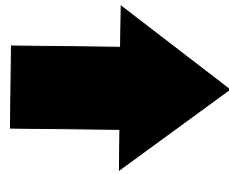
Controlled
Variable

Controlled
Variable

STEP 4: WHAT IS THE QUESTION YOU WANT TO EXPLORE?

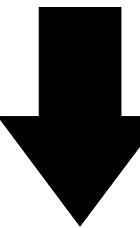


When I
change this
one
variable....



Independent
Variable

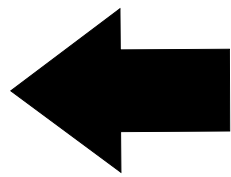
*Write your question
here:*



Dependent
Variable

QUESTION I WANT TO ASK?

Independent
Variable



If I don't
change this
one
variable....



What will
happen to:

Dependent
Variable

*Write your question
here:*

STEP 5:



WHAT IS MY (WHAT AND

What?

Based upon my question, I predict that :

when I change _____

(In

then I predict this will happen to what I

(D

Why?

I think this will happen because _____

MY PREDICTION (AND WHY)?

at :

(Independent Variable)

What I will measure or observe:

(Dependent Variable)

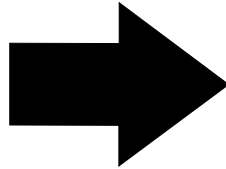
STEP 6: HOW DO I TEST



My Test Set-Up:

Here's how I
will change the
variable...

(What will I do?
How will I
change the
variable?)



Indeper
Variab

My Test Steps:

M

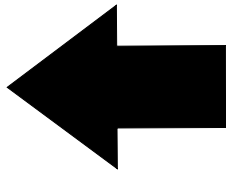
TEST MY PREDICTION?

dependent
variable

My Control Set-Up:

Here's how I
won't change
this variable...

(What will I do?
How will I keep
the variable the
same?)



My Control Steps:

References:

*Based on Goldsworthy, A. and Feasey, R.(1994) **Making Sense of Primary Science***

*Buttemer, H. "Inquiry on Board" **Science and Children**, October 2006*

Primary Science Investigations, Hatfield: ASE