

## Steps to In

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### Step 1: Initiating the Experiment

What did I observe?

*(What do you notice about the object or event?  
Use your senses to describe the object or event.)*

(W  
th

# Inquiry

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What am I wondering?

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

Labeled diagram:



Step 2(a): What could I change or vary

- Brainstorm *(Place sticky notes of the s*

Variable

Variable

Variable

ry about the object or the event?

*(Use the same colour in the squares below.)*

Variable

Variable

Variable

# Variable

Step 2(b): What could I measure or observe?  
- Brainstorm (*Place sticky notes of a new*

Measure /  
Observe

# Variable

observe about the object, or event?  
(new colour in the squares below.)

Measure /  
Observe

Step 3: What will I change and not change?  
- Choosing Variables

One thing (variable) I will change:

Changed  
Variable

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



Things (variables) I will NOT change:  
(What conditions will be held constant so it is a fair test?)  
*Place remaining sticky notes from Part A here.*

Unchanged  
Variable

t change?

I will measure or observe this result:



Measure /  
Observe

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

test?)

Unchanged  
Variable

variable

Unchanged  
Variable

Unchanged  
Variable

variable

Unchanged  
Variable

Unchanged  
Variable

Step 4: What is the question I want to ask?

When I  
change this  
one  
variable....

*Write your  
question here:*

Change  
Variable

Measure  
Observed

nt to explore?

nged  
able

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

What will  
happen to:

ure /  
erve

*Write your  
question here:*

Step 5:

What is my prediction (what

Based upon my question, I predict that

when I change \_\_\_\_\_

(Cha

What?

then I predict this will happen to what

\_\_\_\_\_

(Mea

Why?

I think this will happen because \_\_\_\_\_

\_\_\_\_\_

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What and why)?

that :

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(Changed Variable)

What I will measure or observe:

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(Measure / Observe)

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# Step 6: How do I test my Prediction

## My Test Set-Up:

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

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

Change  
Variable

## *My Test Steps:*

M

on?

nged  
able

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

*Primary Science Investigations, Hatfield: ASE*  
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