Scientific Enquiry

A hypothesis is a **prediction that is supported with an explanation**. The explanation might use previous knowledge.

Consider the following question:

**‘Does the distance between the light source and the puppet effect the size of the shadow?’**





Consider the following:

* Do you think it will make a difference if the light source is far away from the puppet?
* Will the puppet change in size depending on where the light source is?
* What do you need to keep the same when you are changing the distance?
* What do you need to change?

I can set up a simple practical enquiry and consider how to make a test fair.

Consider the following question:

**‘Does the distance between the light source and the puppet effect the size of the shadow?’**

**Planning**

**Aim** (What are you trying to find out?)

I am going to investigate…

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**Prediction**

a) **Describe** (What do you think will happen?)

I predict that…

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b) Use your knowledge and understanding of science to **explain** why you think this will happen.

I believe this will happen because… …………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

**Fair Test**

**Explain** how you will carry out a fair test – What equipment/features are you going to keep the same?

To make sure my investigation is a fair test, I will make sure…

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**Method**

In the space below, list the equipment you will use.  Draw a diagram of how you will set up your experiment.