

Te Paepae o Aotea Science Badge

INVESTIGATION	
<i>Complete 20 stars</i>	

Science investigations involve the sequence of events shown on this sheet. To gain the Investigation Science Badge, you carry out your own investigation on a topic of your choice. You must complete all activities to gain this badge

Exercises in Investigation		Sign
1	Give a brief description of what you hope to discover in your investigation	
2	Why are you carrying out this particular investigation? Who will benefit from the results of your investigation?	
3	Make a list of all the things that you could change (variables) in your investigation	
4	Make a list of all the things that you could measure in your investigation	
5	For this investigation, what is the <u>one</u> thing that you could change and what is the <u>one</u> thing that you will measure?	
6	Make a list of all the things that you keep the same in your investigation	
7	What is the question that you want to answer in your investigation?	
8	From the science that you know, what do you think is the answer to this question (your hypothesis)?	
9	Make a list of all the equipment that you will need in this investigation	
10	List the steps in your method for carrying out this investigation	
11	Show the assembled apparatus that you intend to use in your investigation to your teacher	
12	It is important to repeat an investigation enough	

	times to make sure that your results are valid and reliable (i.e. you can consistently get the same results). Write down how many times you will repeat your investigation and why you have chosen this number to times	
13	Your data from your investigation should be recorded in a table. Produce a table of results from your investigation, which somebody else can clearly understand	
14	Links between the thing you changed in your investigation and the thing you measured are best displayed on a graph. Produce a graph of your results	
15	From your graph, describe the link between the thing you changed and the thing you measured	
16	Write a report on your conclusions your investigation to the person in activity 2 whom you said would benefit from your investigation	