

Hypothesis



THE ROBINSON ANEMOMETER.



Local Environment Study Key Terms

A statement that is proved correct or incorrect. As







	researchers, we don't mind if it is right or wrong, we just want to know which it is.
Enquiry	Asking questions and conducting research to answer an overarching question or hypothesis
Bias	Prejudice against something. For example, you always want your football team to win because you're bias towards them
Qualitative	Any data that involves someone's feelings or opinion
Quantitative	Any data that involves numbers
Annotations	A short description labelled onto something like a picture
Anemometer	A device that is used to measure wind speed using 4 spinning cups
Analysis	Detailed examination of something. In research, this is usually examining graphs
Conclusion	A summery at the end of a research project that aims to answer a research question or hypothesis
Evaluation	Looking back at something and deciding what went well and what could be improved.

Starting a Local En	vironment Study	Using Technology			Presentation method 2: proportional symbol map			
Hypothesis and aims:	Using Technology is a great way of making research easier. Below are some examples of great Apps to get going with. Skitch Maps Skitch Maps allow you to take a picture and add labels, images and annotations to that picture. This means you don't have to spend 20 minutes drawing a picture and can make direct comments onto a picture. Word Cloud Word cloud is another App that allows you to record your feelings about something. On this app, you stand somewhere and words that come to you mind you write down. It then creates something like what you can see below Snap2Map We wont use this app this time but it is great for research in a town or city. It instantly locates your picture on a map so you can remember where you took different images.			ow are some examples	Strengths	Clearly shows the differences between different a reas with different sized arrows.		
A hypothesis is a statement that we are going to try and prove correct or incorrect. As researchers, we don't mind if it is right or wrong, we just want to know which it is.				and annotations to awing a picture and	Weakness	Can be difficult to draw and they need to be highly accurate to be useful.		
Examples we could use:				an ala autor an athing		Line graph can also show the difference		
 The microclimate will be the s More shielded locations will h South facing locations will hav Areas with less wind are more 				ngs about something. I mind you write own or city. It here you took	Alternative presentation techniques	between different sites.		
Research Method 1: Observation				· · · , · · · · ·				
Description: A researcher uses observation to look at an environment and record relevant information that might help prove or disprove the hypothesis. Observation is often used to try to understand the relationship between two things. For example, how does the sun affect a plant. Observation must be without bias. The best observers use all of their 5 senses.		Presentation method 1: Bar chart			Conclusion			
		Strengths	Very clearly shows which opinion is most dominant. Easy to make comparisons between questions. May not show where different sites are. You can compare different sites, but you wont know where they are located on a map.		Our conclusion will b have done in the stur	onclusion will be written at the end of the research. This is a summary of what we done in the study and will either find the hypothesis correct or incorrect.		
					The conclusion is ver	e conclusion is very important as it sums up all of your research collection and analysis.		
		Weaknesses			Evaluation			
Strengths - Flexible and easy to do - Find relationships directly	Weaknesses -Time consuming - It is difficult to record everything you see.	Alternative Pie charts to show percentage of respondents presentation with each differing opinion.			This is a very important, if not the most important aspect of your research. The evaluation is when you look back at your research project and decide			
VISION HEARING SME	LL TASTE TOUCH	Ormiston Victory	Local En St	vironment udy	what you did well and what you could improve on. For example, maybe you found that using a bar chart wasn't very useful but measuring the wind speed was very useful. This evaluation will allow you, or others, to complete the same study again - but better.			
Method 2: Sl	Method 3: Wind and Temperature				The Enquiry Process starts with 'Ask Questions'			
Description: A sketch map allows you to record draw the scene or take a picture. sketch maps is the labels you add about what you were thinking at th be using an App called ('kitch Mar'	Description: When you are collecting data, you will be taking wind speed re using an anemometer and temperature readings using a ther This will give us valuable quantitative data			Ask questions Evaluate the process				
Strengths -These allow you to remember things that you were thinking when you were in the field	Aner -They can be time consuming and can sometimes be inaccurate	Anemometer		Thermometer	1		Ļ	
		0			Dr	aw usions	Process & present data	
						appli	Analysis and ication of wider nderstanding	