

Efficiency of Aboriginal & Torres Strait Islander Fire Starting Methods

Name:		Date:									
Aim/Question What do you want to find out?	To evaluate the different methods that Aboriginal and Torres Strait Islander Peoples have used for millennia and continue to use today, to start fire. Your task is to determine which is the most efficient method of starting fire.										
Independent variable What will you change?	Choose 1 variable you will change to decide which method is most efficient: <input type="checkbox"/> The method (drill/saw/plough) <input type="checkbox"/> The person doing the work <input type="checkbox"/> The force applied to the system										
Dependent variable What will you measure? (Choose one from each column)	<table border="1"> <tr> <th>I will measure:</th> <th>I will measure this using:</th> </tr> <tr> <td> <input type="checkbox"/> The time to produce smoke <input type="checkbox"/> The temperature generated after _____ seconds <input type="checkbox"/> My effort (respiratory rate) after _____ minutes </td> <td> <input type="checkbox"/> A stopwatch <input type="checkbox"/> A radar thermometer <input type="checkbox"/> counting </td> </tr> </table>		I will measure:	I will measure this using:	<input type="checkbox"/> The time to produce smoke <input type="checkbox"/> The temperature generated after _____ seconds <input type="checkbox"/> My effort (respiratory rate) after _____ minutes	<input type="checkbox"/> A stopwatch <input type="checkbox"/> A radar thermometer <input type="checkbox"/> counting					
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Controlled variables What will you keep the same? (Choose all)	The variables you will keep the same are: <input type="checkbox"/> The type of wood for the base <input type="checkbox"/> The type of wood for the saw/drill/plough stick <input type="checkbox"/> The person doing the work <input type="checkbox"/> The speed of moving the stick <input type="checkbox"/> The weather <input type="checkbox"/> The moisture and age of the wood										
Hypothesis	If _____ then _____ because _____										
Materials											
Risk assessment What risks can you identify in this investigation? What measures can be taken to minimise the risks?	<table border="1"> <thead> <tr> <th>Risk</th> <th>How will I manage the risk</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>			Risk	How will I manage the risk						
Risk	How will I manage the risk										

Data collection
TABLE

Observations:

	Trial 1	Trial 2	Trial 3
Fire Saw			
Fire Drill			
Fire Plough			

Data:

	Trial 1	Trial 2	Trial 3
Fire Saw			
Fire Drill			
Fire Plough			

Graphing

Construct a graph to display the results.

Ensure you label the axis, create a key and add a title.

The Horizontal axis will be your independent variable

The Vertical axis will be your dependent variable

Discussion**Data**

What does your data tell you?

1. Which method is the most efficient and what observations support this?

2. What variables could you not control?

3. What would you do differently if you could repeat this inquiry?

4. Why are different wood types used by different Aboriginal and Torres Strait Islander Peoples?

5. Why do different Aboriginal and Torres Strait Islander Peoples use different methods of starting fire?

Conclusion

4 sentences
summarising the
experiment.

- 1-aim
- 2-method
- 3-results
- 4-hypothesis

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.