The Stroop test

Aim	
Null hypothesis	
Alternative hypothesis	
Independent variable (operationalised)	
Dependent variable (operationalised)	
Experimental design	
Sampling method	
List possible extraneous variables and explain how you could control them	

Procedure

- Find willing participants in your household who consent to participate in an experiment; you can include yourself as a participant.
- Find the Stroop test below the procedure.
- Participants should state the colour of the word, not what the word says. For example, for the word **Blue**, they should say ‘red’. For the word **Brown,** they should say ‘brown’.
- Participants should take great care to say the colour correctly and not race against the clock. Mistakes should be corrected
- The experimenter should check if the words are read correctly.
- The experimenter says ‘start’ to signal to the participant to begin reading the first list.
- The participant says ‘stop’ at the end of the list, so the experimenter can record how long it took to read the list.
- Participants should read the practice list first so both participant and experimenter can practise what they have to do (only do this once). Participants should now read **List A Non-conflicting colours, then List B Conflicting colours.**
- You need to record the time taken to complete List 1 and list 2 for each participant and record the results in the table.

Stroop Test

Practice list	List A Non-conflicting colours	List B Conflicting colours
Brown	Red	Brown
Green	Blue	Red
Red	Green	Brown
Purple	Brown	Purple
Red	Purple	Green
Brown	Blue	Purple
Green	Red	Brown
Blue	Brown	Brown
Red	Green	Red
Blue	Red	Purple
Purple	Purple	Green
Red	Red	Brown

Purple	Blue	Green
Green	Brown	Red
Purple	Purple	Blue
Red	Red	Purple
Green	Green	Red
Red	Purple	Green
Purple	Blue	Red
Green	Purple	Blue
Purple	Brown	Green
Blue	Green	Brown
Green	Brown	Blue
Brown	Red	Purple
Blue	Green	Blue
STOP	STOP	STOP

Activity 1: Carry out the Stroop test and record data

Table showing the time taken to read out the word (in seconds).

	Time taken to read list A non-conflicting colours	Time taken to read list b conflicting colours
Participant 1		
Participant 2		
Participant 3		
Participant 4		
Total		
Mean score		

Activity 2: Analyse data: Conclusion of the Stroop test

What conclusion can you draw from the results?

Activity 3: Identify confounding variables

Thinking about the Stroop test you conducted, were there any confounding variables (variables that definitely
impacted your results).

Confounding variables

Activity 4: Discuss the validity and reliability of the Stroop test.

Thinking about the Stroop test you conducted, Discuss whether it was high/low in internal validity.
Discuss whether external validity is high or low, referring to ecological, population and historical validity (where relevant).
Discuss whether your experiement had high or low reliability