The effect cognitive load has on eye blinking

Ledger, H.

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Appendix A

Information Sheet

This experiment is designed to track movement of the eyes throughout various conditions; the conditions consist of watching a series of slides, each containing visual and audio information about everyday objects. The information will be either congruent or incongruent and we are interested in seeing whether different types of information affect eye movement. In order to track eye movement, a technique called EOG (Electrooculography) will be used; this technique involves electrodes being placed around the eyes and a synchronised webcam will record the face so as to verify eye movements visually. All results will be kept anonymous and participants maintain the right to withdraw at any point during or after the experiment. The video will only be used for analysis purposes.

If you are happy to participate, please sign and date below:

Date: ____________  Sign: ________________________

Appendix B

A list of the 24 objects used in Experiment One and Two.

1. Action Man
2. Apple
3. Ball
4. Banana
5. Book
6. Cap
7. Chocolate Bar
8. Glasses
9. Glove
10. Jam Jar
11. Ketchup
12. Keys
13. Mobile Phone
14. Mug
15. Pen
16. Remote Control
17. Scissors
18. Shampoo
19. Shoe
20. Sock
21. Sweets
22. Teddy
23. Toy monkey
24. Watch
Appendix C

Debrief

Thank you for participating in this experiment! The real aim of this experiment was to see if different types of information affect your blink rate, you couldn’t be told this at the beginning of the experiment as this would have affected how you blink naturally. The theory is that increased cognitive load results in fewer blinks, this experiment included information that manipulated cognitive load to see if this was the case. All results will be kept anonymous and if at any point you wish to withdraw your results then please contact me with your participant number. If you have any questions or problems then don’t hesitate to contact either myself or Ed Symes.

Thanks again!

Contact Details

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Ed Symes
E.Symes@plymouth.ac.uk

Appendix D

A list of the descriptive sentences used in Experiment Two

1. I like to play with this action man
2. I like to eat this apple
3. I like to bounce this ball
4. I like to eat this banana
5. I like to read this book
6. I like wearing this cap
7. I like to eat this chocolate bar
8. I like to wear these glasses
9. I like to wear this glove on my hand
10. I like to spread this apricot jam on my toast
11. I like this tomato sauce on my chips
12. I like to unlock the door with these keys
13. I like to make calls on this mobile phone
14. I like to drink tea and coffee from this mug
15. I like to write things with this pen
16. I like to change the channels with this remote
17. I like to cut things with these scissors
18. I like to use this shampoo
19. I like to wear this shoe
20. I like to wear this sock on my foot
21. I like to eat these sweets
22. I like to cuddle this teddy bear
23. I like to play with this toy monkey
24. I like to tell the time on this watch
### Appendix E

**Raw Data from Experiment One – eye blinks observed**

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### Appendix F

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