

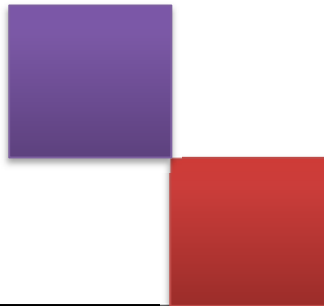
# Think Fast

## Introduction

What is this experiment: This experiment is based of reaction times we test how fast an individual can grab a ruler. The more the ruler passes through you hand the worse your reaction time is.

## Materials

- A ruler
- Plastic glove
- Pen
- Note book



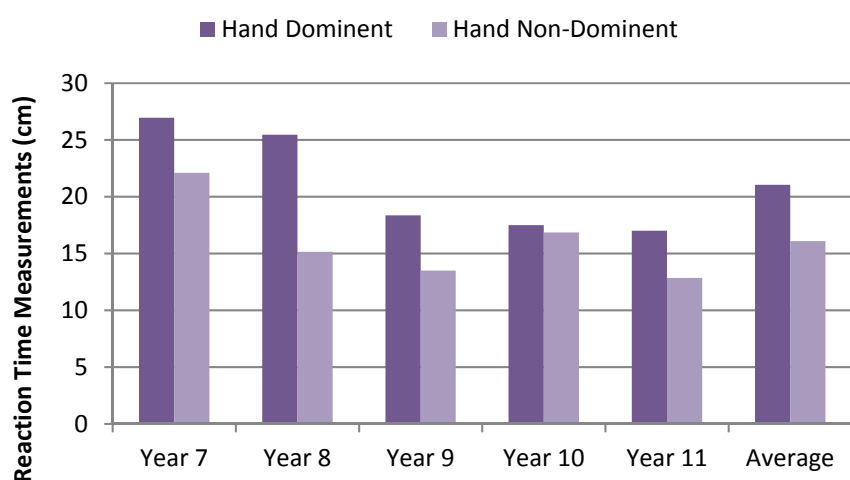
## Procedure

1. Gather around 10-20 people and give them each a glove.
2. Take one at a time to somewhere where you have a bit of space for the experiment.
3. Get the ruler and hold it at around 5-10cm above their hand.
4. Wait for 3-20 seconds then when you're ready release the ruler and measure where they caught it.
5. Repeat the steps with the other hand.
6. Record in the book which hand was dominant and which hand was non-dominant.

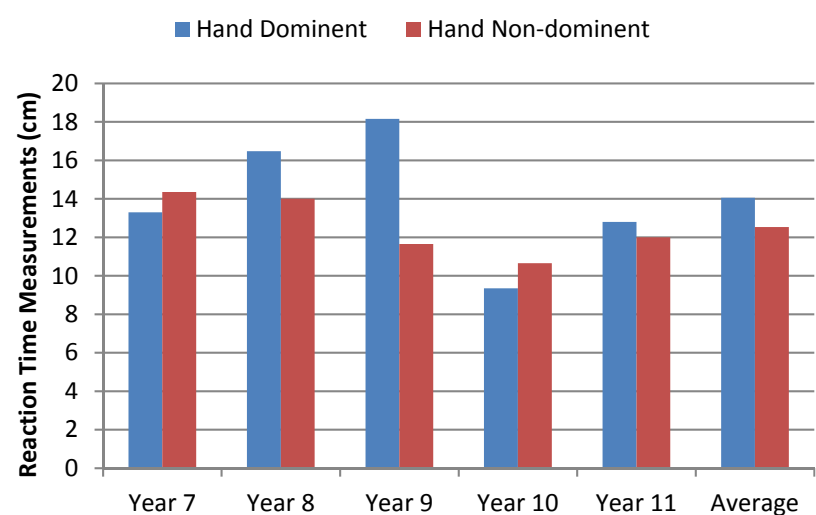
## Variables that may affect the outcome

- If the person is distracted they may get different reaction time and also if they are sleepy or hungry.
- WE measures approximately 5-10 cm that could also change the experiment.
- Change in environment could also change results.

## Girls Reaction Times Year 7-11



## Boys Reaction Times Year 7-11



## Conclusion

Overall the data shows that boys' reaction times were quicker than the girls. The boys only beat the girls by few amounts of centimetres some errors in our experiment could have changed and influenced the results. Some of the errors we made were not measuring how far the ruler was from the individuals' hand. We also had some changes in the environment this could have distracted or change the person's reaction times. Overall this shows that boys have slightly quicker reaction time than girls but is not completely accurate because of the errors.