

Experiments - Writing a Report (Control/Treatment)

Problem (as a group)

- Pose a question
- Make a prediction - give reasons for your prediction
- What is the purpose for your experiment?

Plan (as a group)

- Explain what type of experiment you will be carrying out
- Define the explanatory and response variables
- Define the units
- Explain how your experiment will work in enough detail that someone could reproduce exactly what you did.
- For Merit, explain and justify the decisions you made about how to do the experiment.
- Describe any related variables (other things that could affect the results and make them less reliable), the effect they could have on your results, and how you will minimise these effects

Data (as a group)

- Conduct the experiment, record the data, and include it in your writeup

Analysis (individual)

- Display results in a dot and box plot for each group
- Display summary statistics
- Analyse the graphs by describing what you see, giving evidence to back it up and saying what it might mean. Remember to include the context!

Conclusion (individual)

- Write a conclusion that answers your investigative question - make sure you give evidence for the conclusion you have made
- What things didn't go so well in your experiment and could have affected the results?
- What further research could you do or what else might be interesting to investigate?