



Title: Is there a Heat Island in Settlement 'X'?

Hypothesis:

A sentence that can be proven to be true or false: such as ...

- 1. Settlement 'X' has a 'heat island'*
- 2. Air temperature variations around the grounds in Settlement 'X' are due to differences in ground cover.*

Introduction: (up to 400 words)

Introduce the topic and place that you are studying:

- What is a heat island?*
- What factors affect air temperature?*
- (Scholars) What studies have been done before that show that Heat Islands occur?*
- Where is the study happening? (Location map of Settlement 'X' is needed)*

Method: (about 100 words)

What data did you collect and how?

- Use annotated diagrams and photographs wherever possible in your explanation.*

Results: (very little writing)

Graphs and maps showing your data: (raw data should be put in the appendices at the end of the write-up. You could use the following methods:

- An isotherm map of the Settlement 'X' area (maybe on tracing paper over a base map/aerial photo: perhaps over a 'land cover' map)*
- Graphs to show:*
 - All of the data stacked up for each site (temperature, land cover, ground colour, wind speed, altitude (from OS map or altimeter on GPS), number of storeys the buildings have, distance from the nearest building (only an idea!))*
 - Scattergraphs comparing temperature with a selection of variables to see if there is a relationship.*
 - A transect showing temperature and how many buildings there are.*

Conclusion: (about 300 words)

- Describe what your graphs and maps show in the results section.*
- Is your hypothesis true or false?*
- Are there any anomalies (odd readings) in your data? Can you explain them?*

Evaluation: (about 200 words)

- How could the data collection have been done more accurately?*
- What other data could have been collected to test the hypothesis better?*
- Think about time, volume of data, equipment and types of data collected.*