Hypothesis Writing: examples

**EXPERIMENT OR CORRELATION?**

**Operationalise IV (sauna or igloo)**
**Operationalise DV (time to do a 500 piece jigsaw)**

Think of a **difference between two groups**

- **Null** – predicts that the IV will have no effect on the DV
- **Alternate** – predicts that the IV will affect the DV

- **There will be no difference between the time taken to complete a 500 piece jigsaw for people in an igloo and people in a sauna, and any difference will be due to chance**
- **Do you predict what the difference will be?**
  - **No**
  - **Yes**
  - **Two-tailed**
  - **One-tailed**

- **People in an igloo will complete a 500 piece jigsaw faster than those in a sauna**

**Operationalise v1 (number of Facebook friends)**
**Operationalise v2 (hours studying per week)**

Think of a **relationship between two variables**

- **Null** – predicts that the IV will have no effect on the DV
- **Alternate** – predicts that there will be a relationship between the variables

- **There will be no correlation between [v1 and v2], and any correlation will be due to chance**
- **Do you predict what the difference will be?**
  - **No**
  - **Yes**
  - **Two-tailed**
  - **One-tailed**

- **There will be a correlation between number of Facebook friends and hours spent studying per week**
- **There will be a negative correlation between number of Facebook friends and hours spent studying per week**

EXAMPLE: Study to find out whether temperature affects cognitive ability

EXAMPLE: Study to find out whether sociability and being studious are linked

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