

# OCR (B) Physics A-level

## PAG 12.3 - How Science Works Report

### Practical Flashcards

This work by [PMT Education](https://www.pmt.education) is licensed under [CC BY-NC-ND 4.0](https://creativecommons.org/licenses/by-nc-nd/4.0/)



What are some suitable sources to use for research?



What are some suitable sources to use for research?

- Books
- Scientific Articles / Journals
- Websites (google scholar)



What needs to be included in the reference for a book?



## What needs to be included in the reference for a book?

- Author(s)
- Title
- Chapter / Page numbers
- Edition
- Date
- Publisher



What needs to be included in the reference for an article?



# What needs to be included in the reference for a book?

- Author(s)
  - Title
  - Date
- Journal



What needs to be included in the reference for a website?





## What needs to be included in the reference for a book?

- Author(s)
- Title
- Date Written
- URL
- Date Accessed



# What is a citation?



## What is a citation?

A quotation or reference to an academic text,  
included within the body of report.

It could be in the format of *(Name, date)* or as  
footnotes with numbered references [1]



# What is important to include in a report?



## What is important to include in a report?

- Introduction
- Appropriate picture and/or diagrams
  - Conclusion
  - Points for further research
  - Bibliography



# What is a hypothesis?



# What is a hypothesis?

A proposed solution to a problem posed at the start of an investigation from limited information or initial research.



Why is it important to consider errors and uncertainties in experimental data?





## Why is it important to consider errors and uncertainties in experimental data?

Uncertainty can help to decide confidence in a result or conclusion. Errors can help to identify potentially erroneous data and limitations in the design of an experiment.



# What should a conclusion include?



## What should a conclusion include?

Uncertainty can help to decide confidence in a result or conclusion. Errors can help to identify potentially erroneous data and limitations in the design of an experiment.

