

How do we revise for Science?



Three common revision techniques that are **LEAST** effective in helping you revise are:

- Highlighting texts
- Re-reading
- Summarising text



Whilst these methods may feel like you are revising, there are many better methods to help you revise.



Flashcards

Simply create with questions on side and answers on the other side. You can colour code for specific topics and quiz yourself or others.



Post its can be also useful for key words and equations

Using Flashcards

Using the Leitner Method, using the video below <https://youtu.be/C20EvKtdJwQ>



You can also create excellent flashcards online or on your phone using Quizlet which also had an app.



How to use in Science

There are a variety of ways to use flashcards in revision for the skills you need

Key words

Create for key words and terms



Equations

Create them for the equations you must learn



Required practical's

Create them with the method on to learn the key RPA points



Retrieval Practice

Testing what you know is a powerful tool in revision, the effort to remember something really strengthens your memory

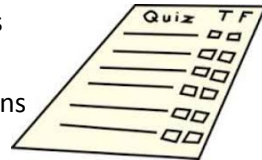
Apps such as Quizlet allow you to use or create your own quizzes based on topics.

Create them, test yourself or get someone to test you, it's works!

Types

There are a number of types you can create:

- Multiple Choice Questions
- True or False
- Short Explanation Questions
- Odd One Out
- If this is the answer then what is the question



How to use in Science

Spaced

Test on old and new topics mixed up

Knowledge Organisers

Use to create 'must know' quizzes for a topic

Examples

'Give two examples of.....'

Transform It

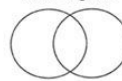
Graphic organisers are a great way of 'transforming' your notes/information into visual revision topics.

They can be used to create links, show a narrative, identify the causes/consequences and importance of something.

How to use in Science

1. **Links between topics** – Create a mindmap/flow diagram to link the big ideas between topics. Eg: Energy and Electricity
2. **Comparisons** – Do a Venn diagram to compare models in electricity. You can also use it to compare renewable and non-renewable energy resources.

Venn Diagram



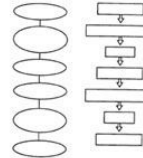
Sequential Thinking Model



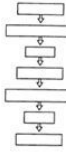
Sequential Thinking Model



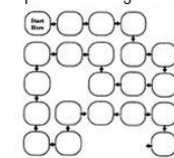
Chain



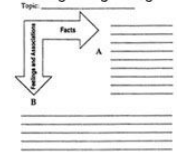
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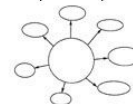
Sequential Thinking Model



Thinking at Right Angles



Spider Map



Web



Mind Map



The Science department have purchased online tuition videos and examination content for you all. The subscription is usually £50 pounds

Can't remember your login?
Try: Your first initial, surname and the number (loneil22)

Your password should be: aln (if this doesn't work see Mr O'Neil)



How do we revise for Science?

Deliberate Practice

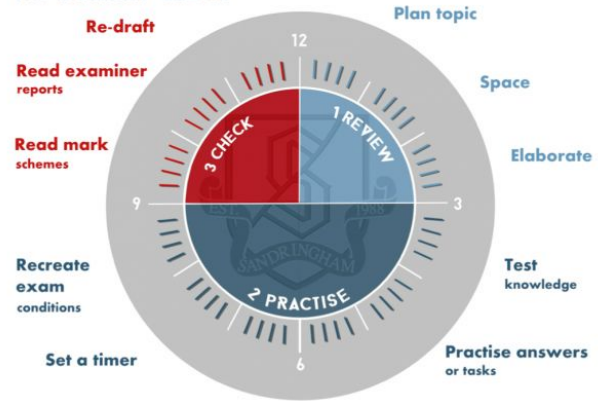
Set aside time to practice improving your knowledge or science skills. Choose what you need to do, it must be tough enough to challenge you, and practice, practice, practice!

You should focus on something that you are *almost* able to do but *not just yet!*

How to use in Science

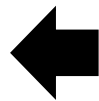
1. Use a model answer from the teacher, pull it apart and identify the key parts. Then answer a similar question and try to replicate
2. Study material, complete practice questions in timed conditions. Then use your notes to correct / improve your answer. A week later, redo a similar question. Repeat as necessary.

THE MEMORY CLOCK



The Cornell Method

This method can be used in your revision books as a great method to get you to 'think' about your revision. Simply split your page into 3 sections as shown on the diagram on the left:

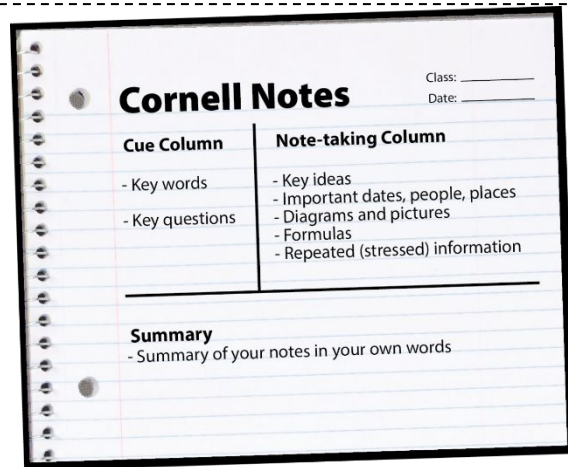


- Note Taking
- Cues
- Summary

How to use in Science

Use it to summarise a whole topic or theme, for example

- What energy stores and pathways are there?
- How are these used in specific transforms, eg: a ball falling?
- Take into account wasted energy stores, what impact would this have on the environment?



Interleaving and Spacing

Don't revise your all topics in one go (cramming), you should revise 'chunks' of a topic for small amounts of time (15 minutes) and then move onto another 'chunk' from a different topic.

This will improve your memory!

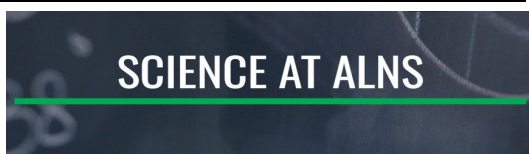
e.g. 15 minutes on Cell Biology, then Electricity

How to use in Science

1. Create a revision plan to cover topics you need to cover (least confident first!) and then go back over them again later. Spread our learning in small sections, 5 hours to 5 x 1 hour
2. Use your flashcards to self test yourself on old and new topics, self testing across these



Where to find the resources



There is a science revision website with all the relevant information and resources.

<https://sites.google.com/alnsconnected.com/alnsscience>

When are your exams?

Biology paper 1: 13th May 2025

Chemistry paper 1: 19th May 2025

Physics paper 1: 22nd May 2025

Biology paper 2: 9th June 2024

Chemistry paper 2: 13th June 2024

Physics paper 2: 16th June 2024