

Mind and Argument Mapping

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Mind Maps?

- A visual way of taking/making notes and planning
- Show the big picture and how ideas are connected
- Clarify thinking, simplify complex ideas
- An effective memory tool
- Encourages creative thinking = more ideas



I'M SO GLAD YOU ASKED!

A mind map is a more visual way of taking notes and learning information. Mind maps contain words, colours, lines and pictures.

Mind maps allow you to see the big picture and how different ideas are to connected to one another. Mind maps can help clarify your thinking, simplify complex ideas, and memorise information more effectively.

Finally, mind maps allow you to be creative. This makes it easier for you stay engaged with the course content.



What are Mind Maps?

"Mind maps are a graphic, networked method of storing, organising and prioritising information using key or trigger words and images, each of which will 'snap on' specific memories and encourage new thoughts and ideas."

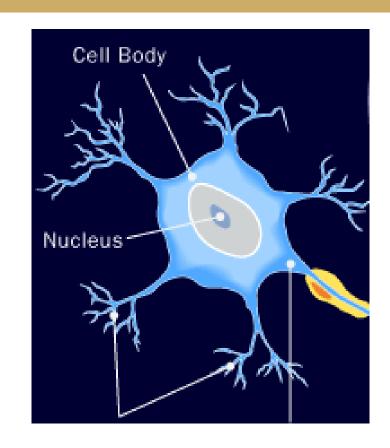
Buzan, T. (2011)



Why are they so effective?

 Mind maps are particularly adaptive for reading, notetaking and revising for exams efficiently

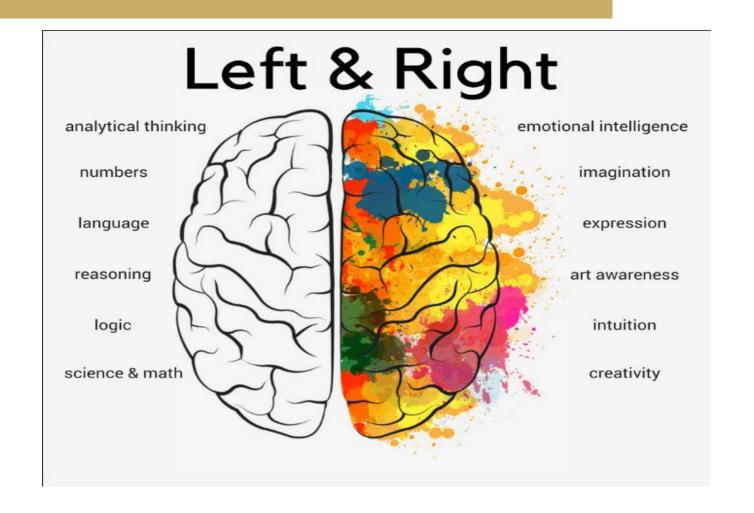
 Mind maps are an effective way to improve learning and memory because they're more compatible with the way the brain functions.





Linear v Whole-brain thinking

Your brain does not think in a linear way, it thinks in multiple directions simultaneously starting from central trigger points in Key Words and Key Images





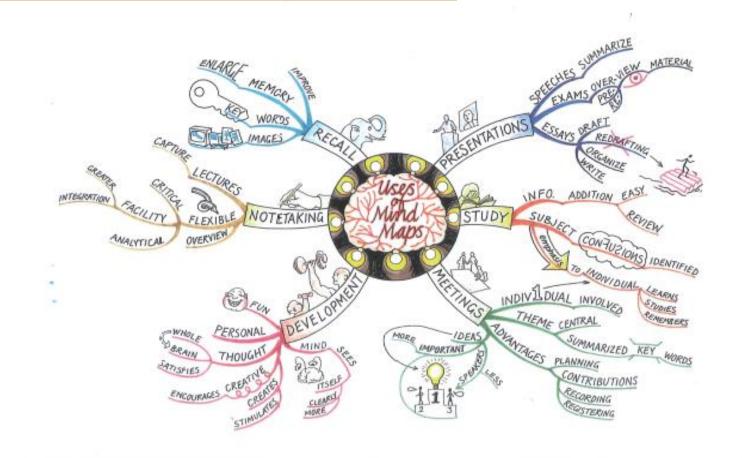
Key Words and Key Images

- A Key Word is a memory trigger
- Linked to a Key Image it stimulates both left and right brain functions
- This radiates connections and triggers recall of complete associated information
- The result is a significant increase in performance



Key Words and Key Images

- Pictures linked to Words stimulate both sides of the brain and involve all your senses
- This embeds information into your memory
- Imagination & Association = Memory



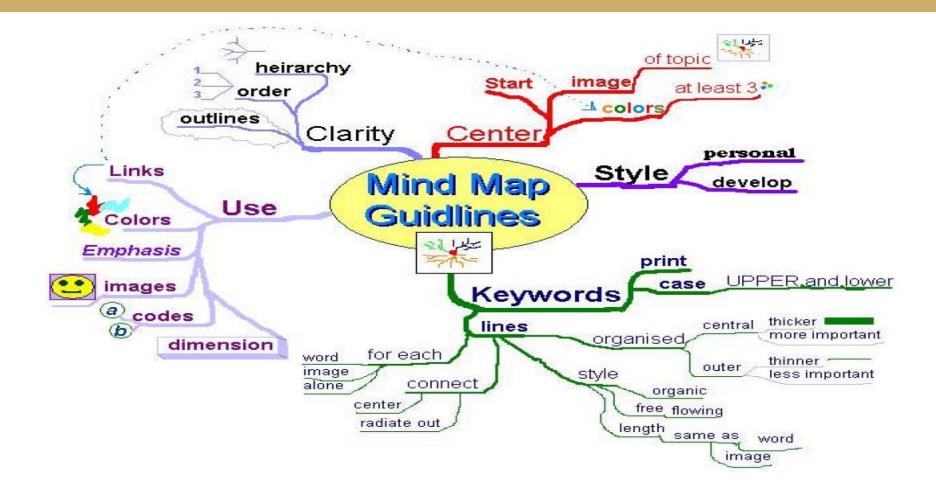


Mind Maps encourage:

- Radiant Thinking and Connections
- Ultimately we think in images and not in words
- Everyone uses radiant thinking to link Key Words with Key Images
- This is the basis for all our thinking and this is the basis of Mind Maps
- Mind Maps have been devised to enhance and increase your radiant thinking processes



How to Mind Map?





How to Mind Map?

- Use variations in the print line and image.
- ► Use images throughout the mind map.
- Organise the space around the branches.









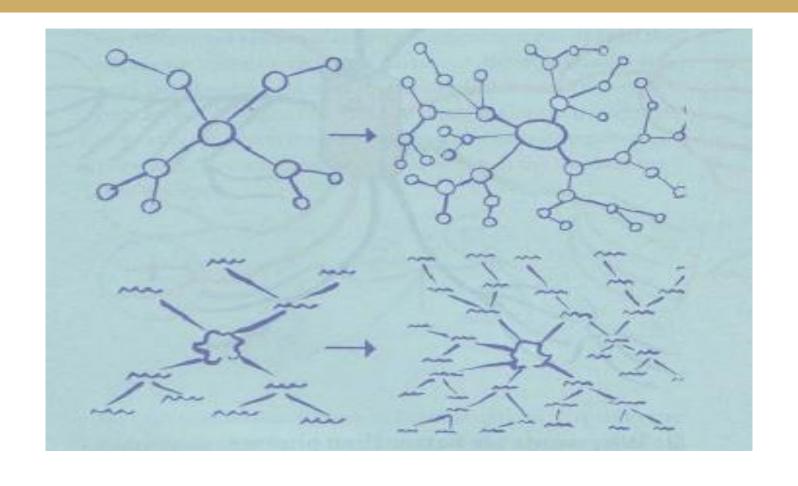








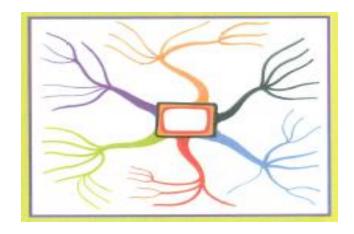
When is a Mind Map not a Mind Map?





How to Mind Map?



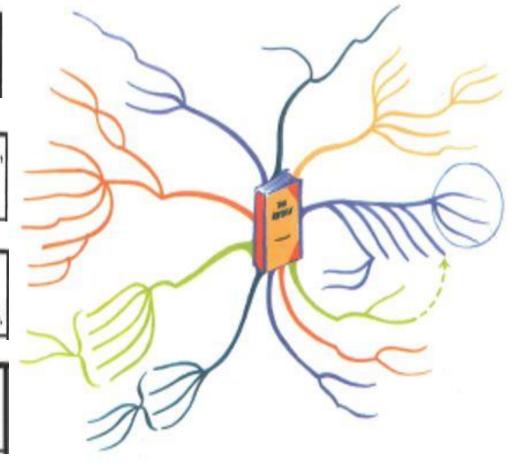


TIP: MAKE SURE YOUR BRANCHES ARE CURVED.
THE HUMAN BRAIN RESPONDS BETTER TO CURVED LINES.

THE BRAIN IS ALSO STIMULATED BY THE USE OF COLOUR, SO USE AS MANY DIFFERENT COLOURS AS POSSIBLE ON YOUR MIND MAP.

THE ACT OF CREATING A MIND MAP HELPS YOU UNDERSTAND THE SUBJECT AT A DEEP LEVEL. IT ALSO HELPS YOU TO ORGANISE AND CLARIFY YOUR THOUGHTS.

LEARNING TO MIND MAP IS LIKE LEARNING TO DRIVE A CAR.





Happiness





Note-taking

"over 90% of written notes taken by students are superfluous, because your brain naturally prefers Key Words"

Buzan, T. (2011)

TWO COLUMN (CORNELL) NOTE TAKING SYSTEM EXAMPLE

Date:

09 Mar 201

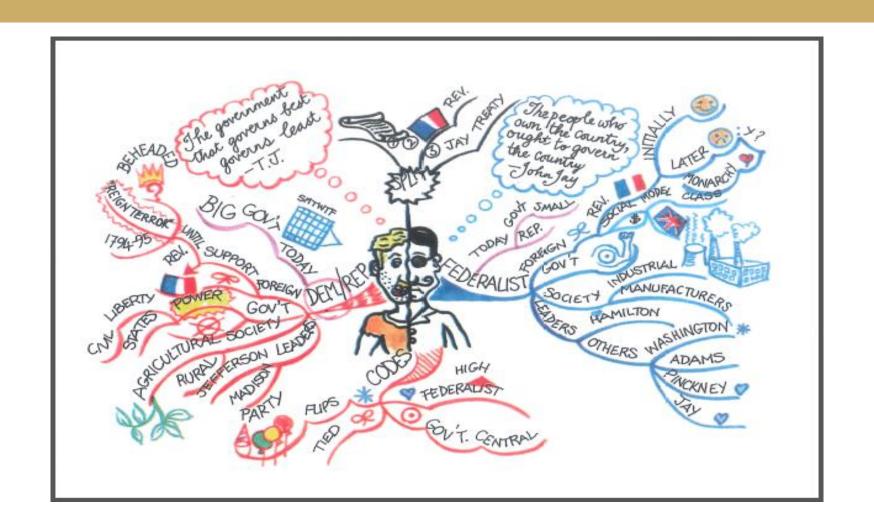
Subject/Toni

Note taking and makin

Recall Column	Note Taking Column
Reduce mair points to	Record facts and ideas (as fully as possible)
key points and cues far reciting, reflecting	Use abbreviations, symbols, diagrams, etc.
ard reviewirg	Write as clearly as you can
DIFFICULTIES	Performing no. of different tasks at once; what to note down or omit; identifying key points
DIFFERENCES BTWN	TAKING - SPEECH - Lectures, video, etc. MAKING - TEXT - book chapters, rewriting notes
IMPORTANCE	Academic Success @ 333 Essays, Exams (revision)
PURPOSE	Engage with material; help with essays; formulate ideas; make sense of material; revisior; review/reformulate ideas
LEARNING STYLES (x3)	Visual Mind Maps (colour; diagrams; wall charts Audito (y) Record; discuss; listen 4 clues/signal words Kinaesthetic Combinations of above
STRATEGIES	Advance prep / punctuality / always attend class / key words & phrases /
(multi-sensary)	loose-leaf notepads / label notes / refs in margin / omit (a, an, the) / abbrevs & s/hand / Mind Waps™ / highlight / copy from boards & OHPs /use handouts
95	/ write 1 side of saper / use dictionary (making) / listen to end summary / use tech if poss / ASAP - write up & talk about afterwards/ p/copy other notes
METHODS	CORNELL - 2 column,
	Q NOTES - Q-uestion & Q-uiz,
	4 QUARTER,
	MIND MAPS***,
	LINEAR a) subheadings; b) key points; c) lists
TECHNOLOGY	Recording devices, laptops, note taking Apps
(Aid not substitute!!!)	
SUMMARY: -	

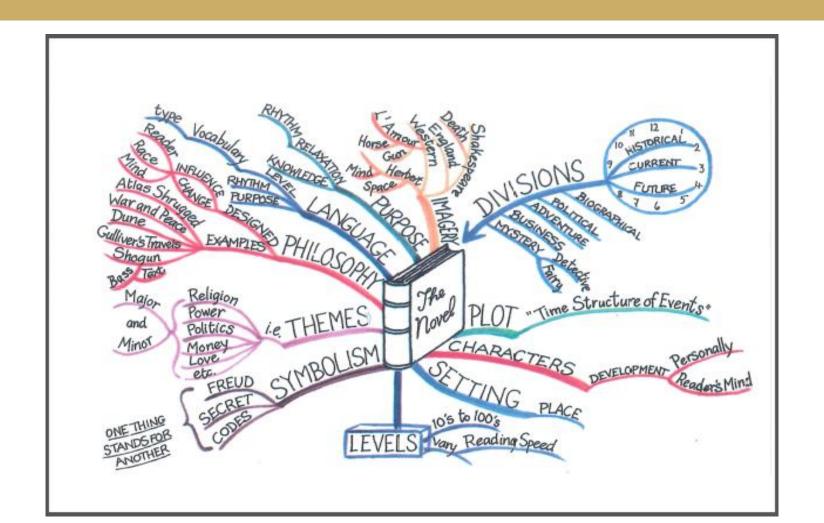


Mind Mapping for Revision



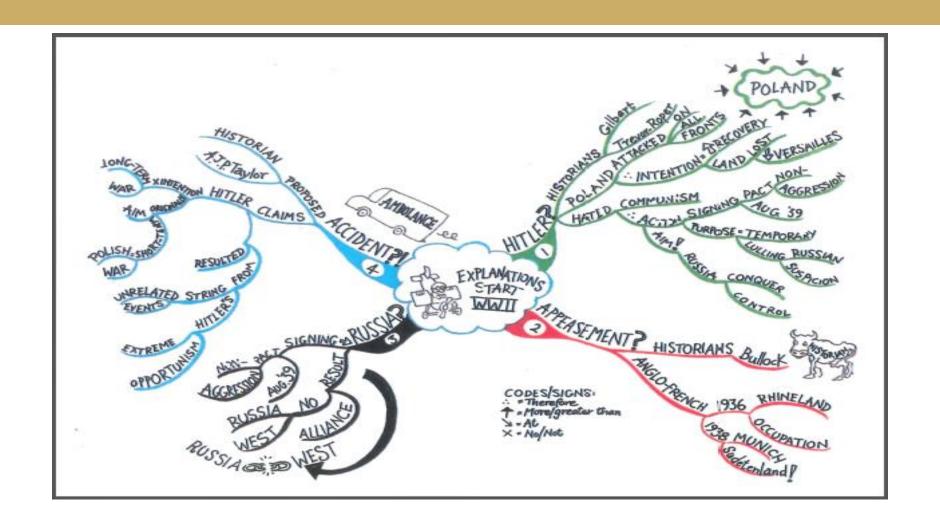


Revision Mind Maps by Students



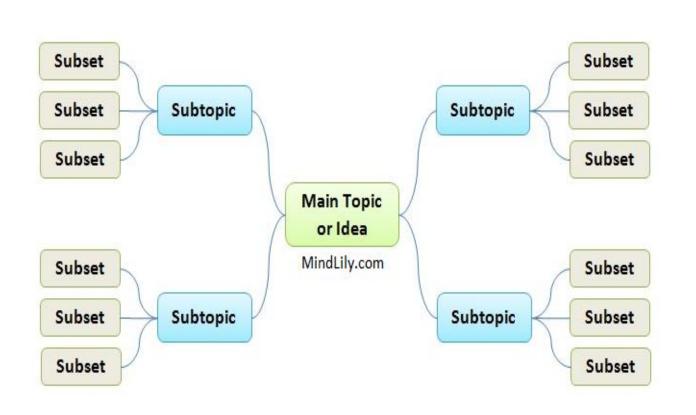


Revision Mind Maps by Students





Hand-drawn v Computerised Maps



Mind Master: Tony Buzan - iMindMap

program Edraw:

www.edrawsoft.com/download-

mindmap.php

MindMapfree: mindmapfree.com

www.matchware.com MindView

https://www.inspiration-at.com/

www.mindmeister.com

www.mindmup.com



MindView

MindView AT has been designed to help visual thinkers create impressive written assignments and presentations. The smooth transition from a Mind-Map to Word and PowerPoint means students can make powerful, formatted documents ready for assessment

- Exports to Word and PowerPoint
- Built-in Citation and Referencing Tool
- Timeline and Gantt view for Project Planning
- Text-to-speech
- Dragon Integration with Native Commands

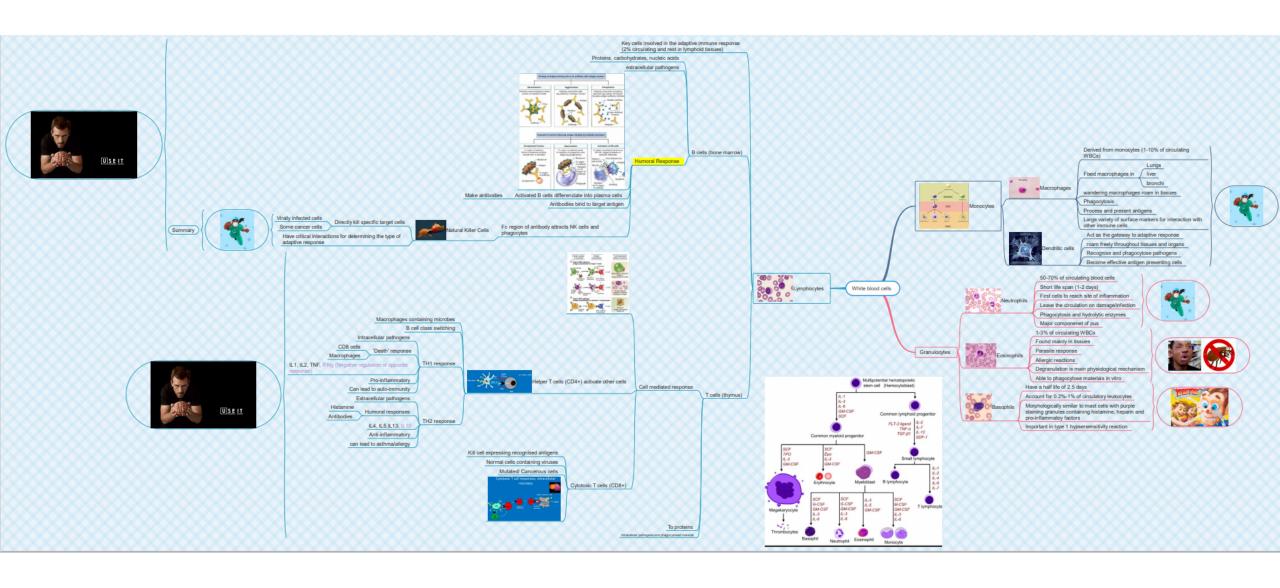


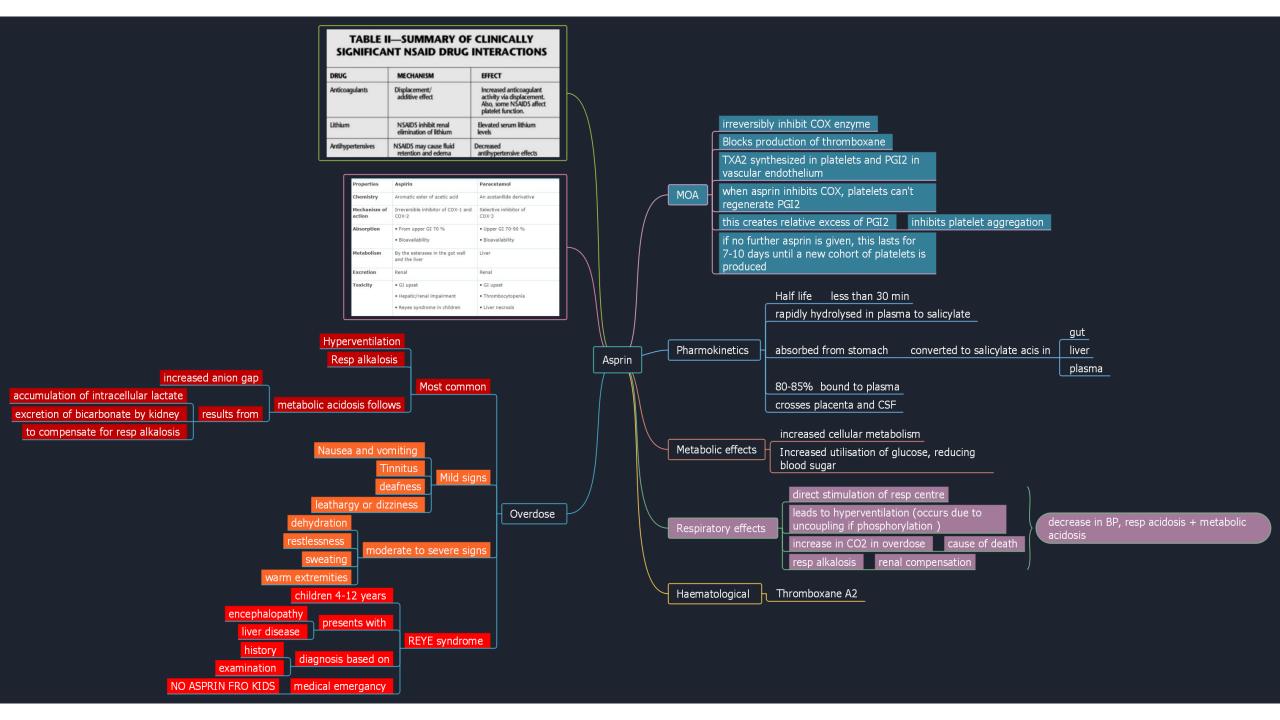


MindMaster

MindMaster is a cross-platform mind mapping software, which has various themes and multiple functions to help users create content-organized and style-rich mind maps for a variety of purposes like brainstorming, project management, knowledge management, business presentation

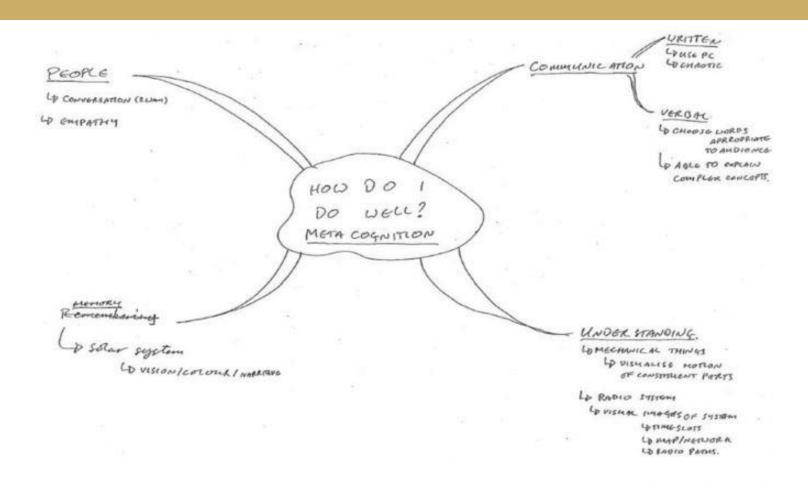




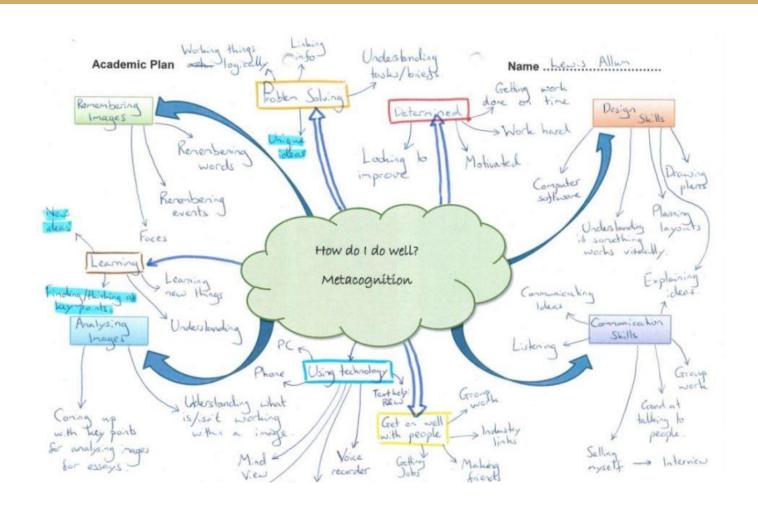




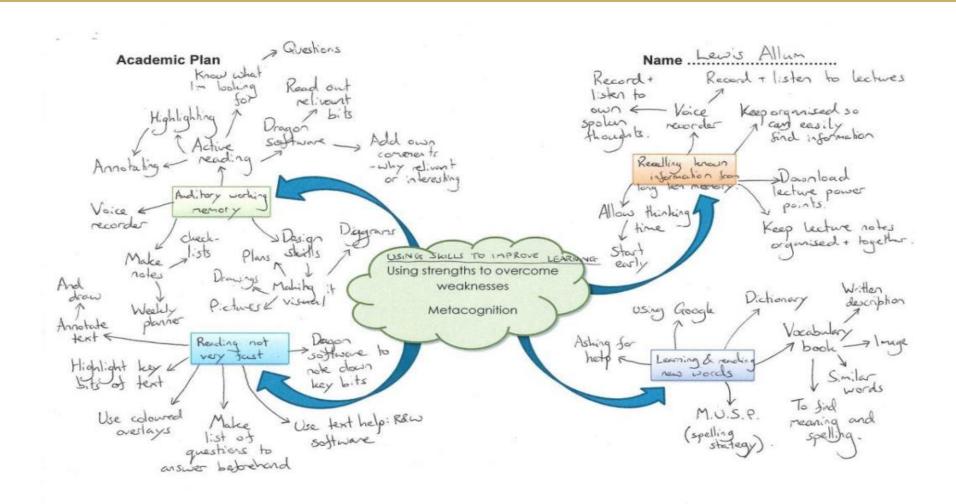
Metacognition Mapping



Metacognition Mind Map: Strengths



Strengths to overcome weaknesses



BIG PICTURE

X Chairing a debate

- **X** Summarising/synthesizing ideas in an essay
- **X** Translating

- **X** Imagining a design object
- X Brainstorming ideas (seeing connections) in diagrams and mind maps
 - **x** Identifying salient patterns in data

NON-

VERBAL

visual/

spatial/

numeric

VERBAL

X Writing about an artwork

x Breaking down an extract of text

X Examining words and concepts

x Film editing

X Collating statistical data

DETAIL

INTERACTIVE/OUTGOING

X Politics student who loves a good debate

X Music student who loves improvising with other musicians

NON-

VERBAL

visual/

spatial/

numeric

VERBAL

X Student who loves to learn through reading

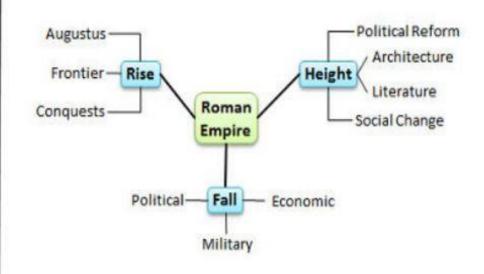
X Designer who loves to work alone sketching out ideas

REFLECTIVE

Mind Maps for Note-taking

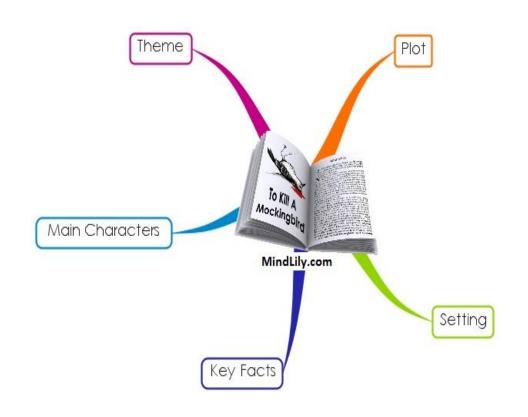
Roman Empire

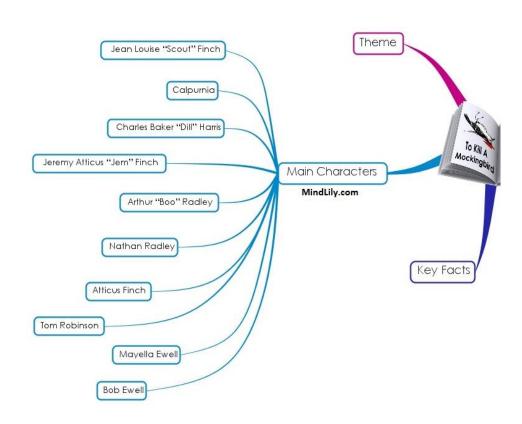
- I. Rise of the Empire
 - a. Augustus
 - b. Conquests
 - c. Frontiers of the Empire
- II. Height of the Empire
 - a. Political Reform
 - b. Architecture
 - c. Literature
 - d. Social Change
- III. Fall of the Empire
 - a. Economic Reasons
 - b. Military Reason
 - c. Political Reasons





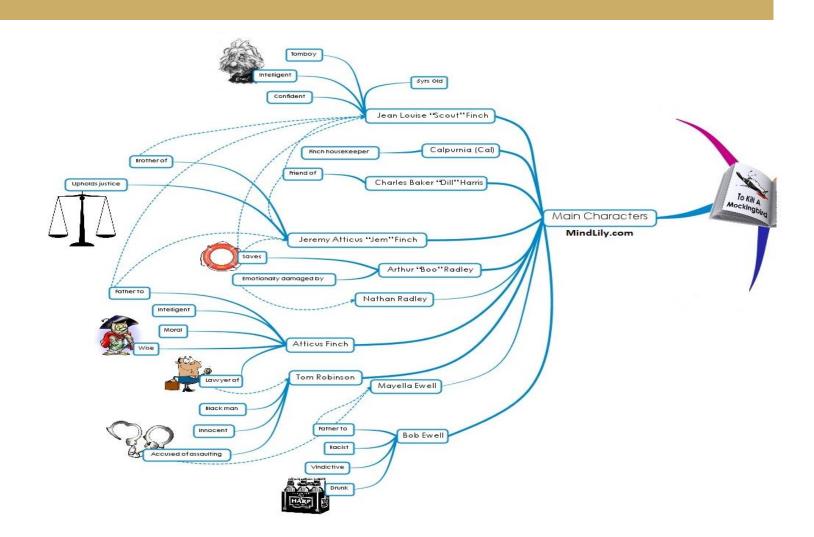
Mind mapping for Note-making







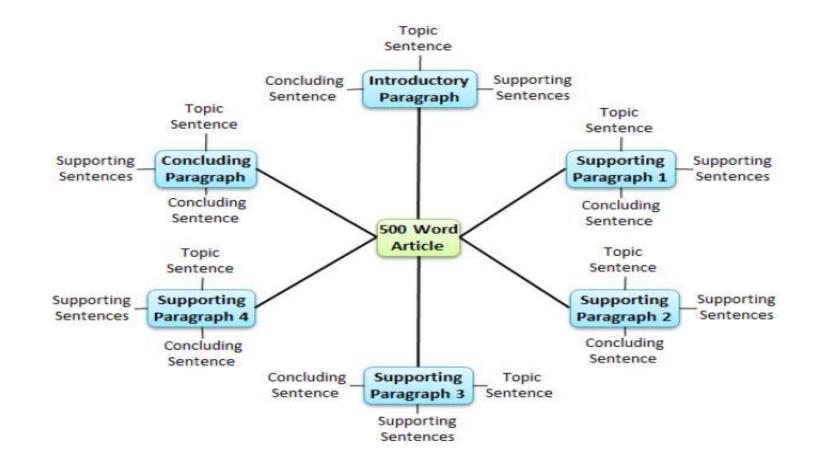
Mind mapping for Note-making





Mind Maps for planning Assignments

- To Explain
- To Persuade
- To Describe
- Compare & Contrast
- Advantages & Disadvantages
- Cause & Effect



The Process

Mind Maps for Research

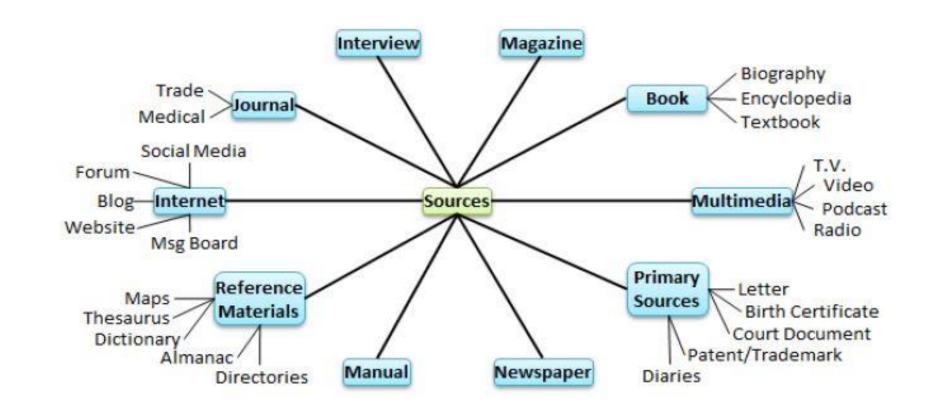
Preview

Read

Mind Map

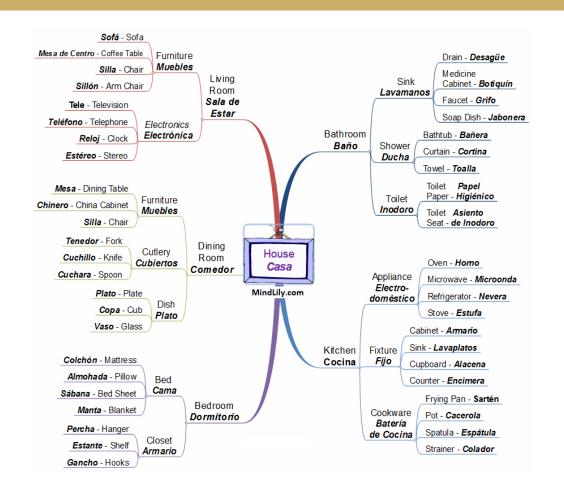
Review

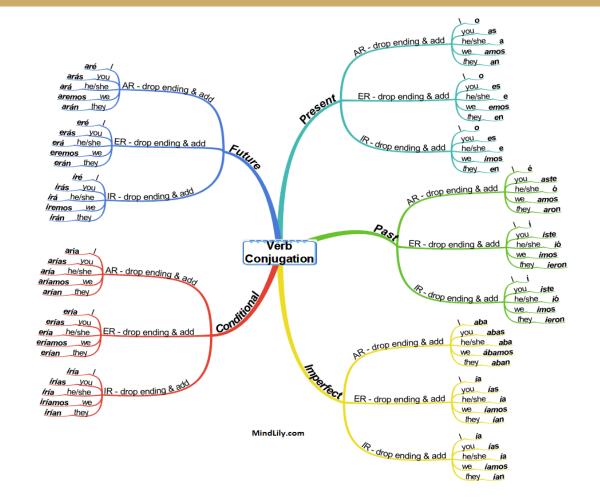
Preview





Mind Mapping - Learning a Language







Argument Mapping

How Argument Mapping differs from other kinds of mapping.

Different kinds of map are defined by the relationships they depict:

- What goes in the boxes; and
- What the connecting lines indicate

Argument maps show only evidential relationships between claims.

In Argument Maps, the lines mean something very specific:

a reason to believe or a reason not to believe something else

Argument Maps are driven by the question, "why should I believe that?".



Argument Maps & Critical Thinking

Critical thinkers make good judgements by being able to analyse and evaluate arguments well

They can grasp the "gist" of an issue and weigh up the pros and cons, answering questions like:

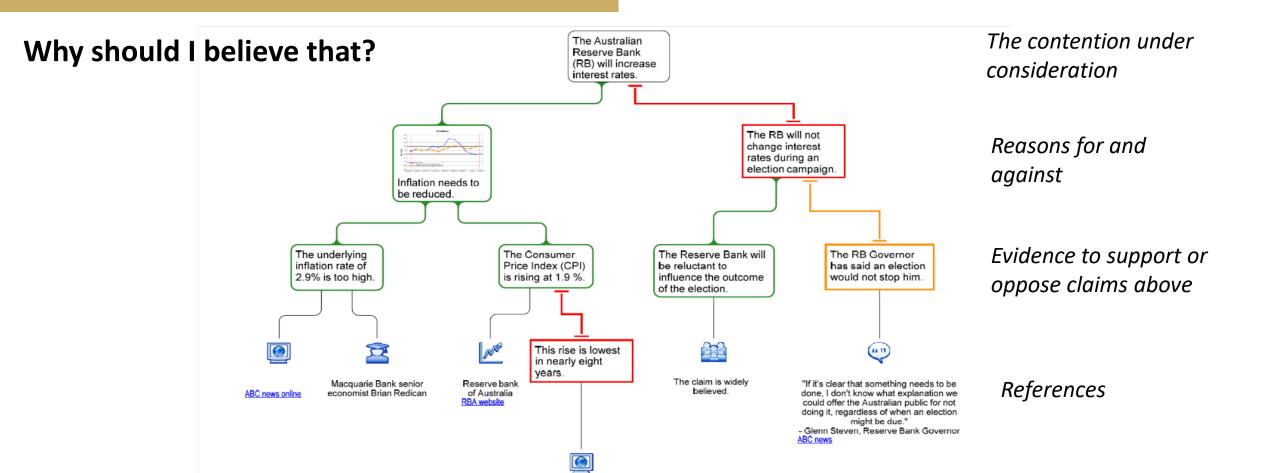
- What am I being asked to accept?
- Should I accept it or not?
- Why? What are the arguments and how strong are they?

Argument Maps support critical thinking by enabling analyse of the exact structure of an argument, showing only elements that are relevant to making your judgements

A good Argument Map encourages clearer thinking, articulates the reasoning clearly, making it easier to consider the case systematically



Argument mapping

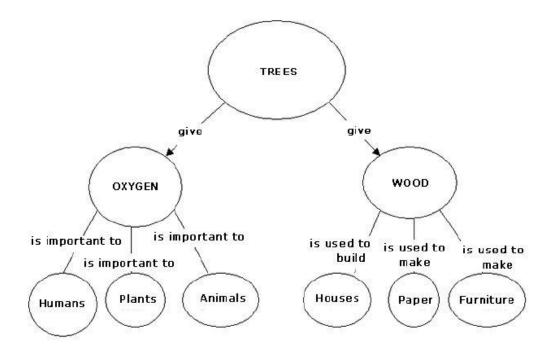


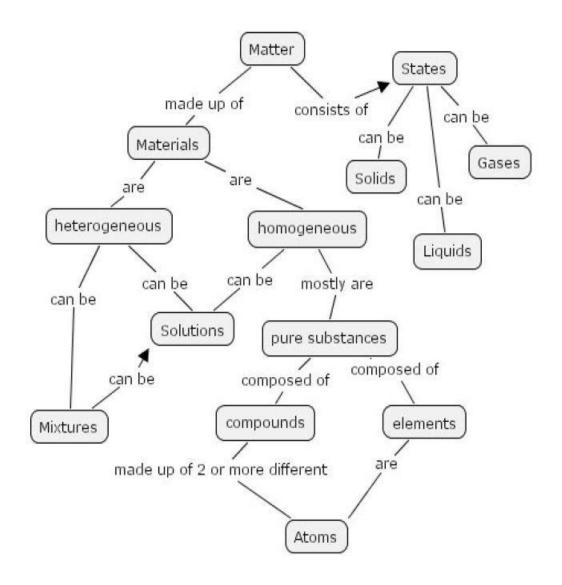
ABC news online



Concept mapping

Provide meaning as to how ideas connect The lines as to how they relate





To summarise:

- Mind Maps support planning and note-taking
- Mind Maps are a useful revision tool
- Mind Maps improve memory
- Mind maps improve recall
- Mind Maps improve the power of association for remembering
- Mind Maps encourage connections and radiant thinking
- Mind Maps require practice

Contact: sarah.myhill@buckingam.ac.uk for more info



Further Resources

A new book available on Amazon written by a medical student from University of Hull: Mind Maps for Medical Students by Olivia Smith

Look inside: http://www.amazon.co.uk/Medical-Students-Olivia-Antoinette-Smith/dp/1482250314

Mnemonics and Study Tips for Medical Students, Second Edition: Two Zebras Borrowed My Car (Hodder Arnold Publication) Paperback – 30 May 2008 by Khalid Khan:

http://www.amazon.co.uk/Mnemonics-Medical-Students-Second-Edition/dp/0340957476/ref=pd_sim_b_1?ie=UTF8&refRID=1XJKJ5EWM2 WXMFKH32QT



Further Resources

- Overall, to introduce the idea of systems thinking, basically create a story or flow around the information to learn. Then within that overall approach:
- For diseases: create a template flowchart in which to capture the name of the disease, its pathogenesis, symptoms, diagnostic tests, diagnostic differentials, treatment, prognosis;
- For systems (eg endocrine, cardiovascular): create a circular (eg endocrine) or linear (alimentary) flowchart capturing the major elements on the main axis and the contributory elements either side.

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References:- Argument Mapping

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