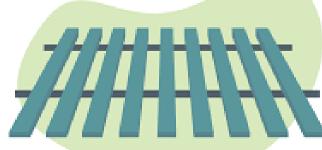
Revisit.



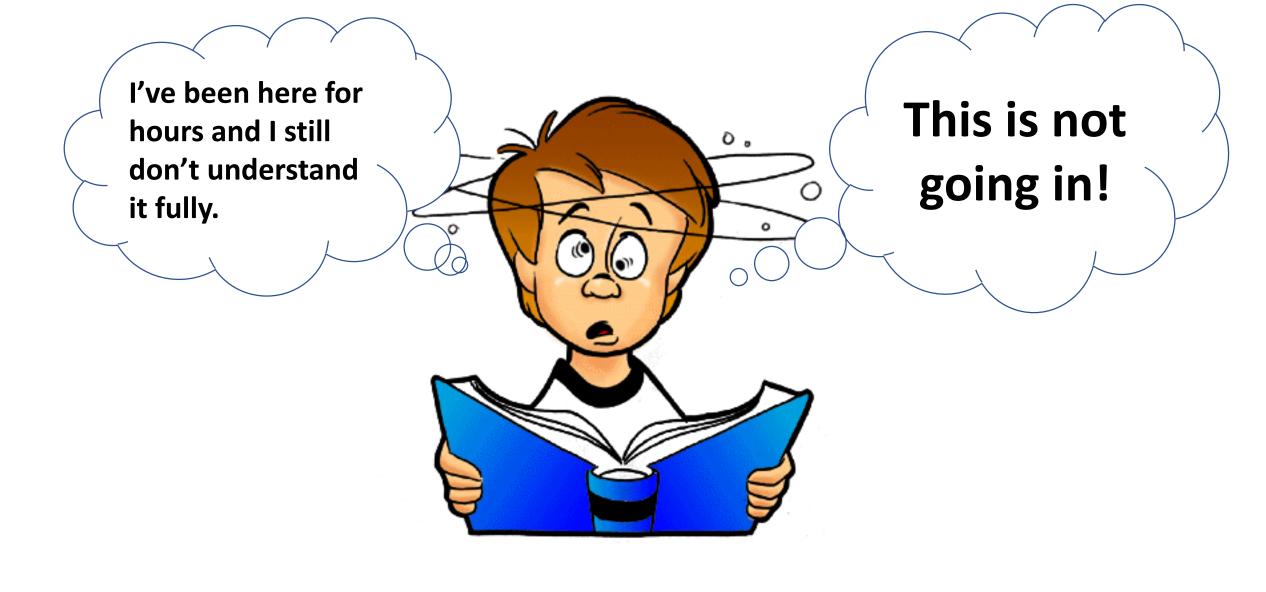


How to make sure you are **learning properly** and able to **remember information** you have learned in the past.

Get Learning Back On Track







Do you ever feel like this?

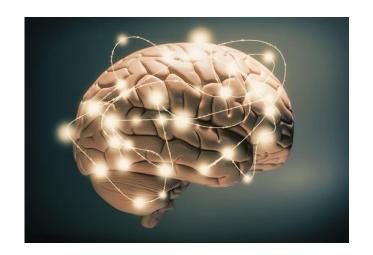
There are two 'phases' of effective learning.

1. Thinking hard about what it is you are trying to learn.

2. Revisiting your work.



Phase one... Thinking hard.

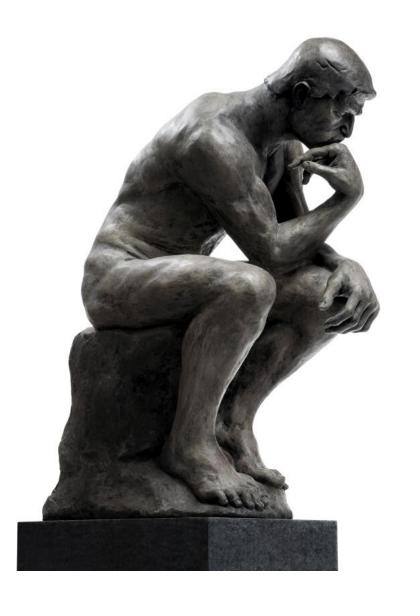








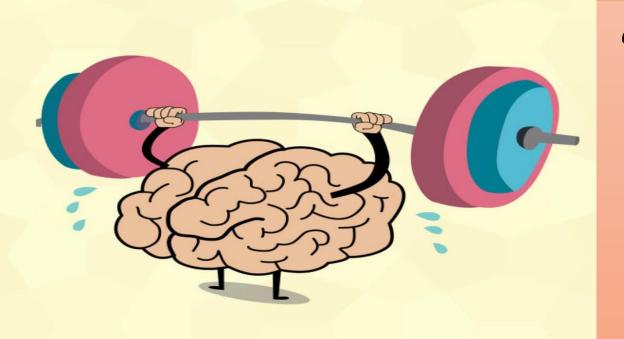




"Learning ONLY happens when people think hard"

Prof. Robert Coe – Durham University





"Memory is the <u>residue</u> of thought."

Daniel Willingham









The reason why you are good at ??? and can always remember how to do it well is because you **THINK HARD** about it over and over again.

Looking vs. learning

How many times in your life do you think you have seen a 50p coin?

"Learning ONLY happens when people think hard."



Seen 200 times 20 people in the room 4,000

looks



Looking vs. learning

•So, what's on the back of a 50p coin?

No cheating!

There is an image of Britannia (the female personification of Britain who gets her name from the Latin for Britain)

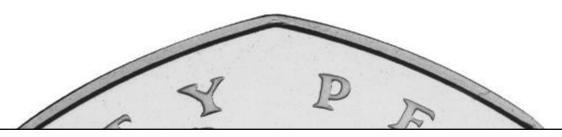
- 1. What is in her left hand? A branch
- 2. What is in her right hand? Trident (not spear)
- 3. What is on the shield? Union flag (not Union Jack)
- 4. What is on her head? Helmet
- 5. What is at her feet? Lion

Rules;

Hands up only,
Must be a precise answer (like in an exam),



- 1. What is in her left hand?
- 2. What is in her right hand?
- 3. What is on the shield?
- 4. What is on her head?
- 5. What is at her feet?



We have seen the coin many times but we have not thought hard about it. Therefore we are familiar with it but we haven't learned it...we don't know it!





So, what sort of things do you need to do to THINK HARD about your work?





PiXL Revisit

A Strategy for Revision

© Commissioned by The PiXL Club Ltd. August 2019

To be emailed to you along with this presentation.

Please use them.

Slow in the show







EMBED

Knowledge and understanding

- Reduce
- Transform
- Deconstruct

MAKE MEANINGFUL AND USEFUL

Analysis and application

- Prioritise
- Categorise
- Criticise
- Trends and patterns
- Practise

11 thinking hard devices.

GROW, EXTEND, DEVELOP.

Flexibility of thinking

- Make connections
- Compare
- Extend

Which device shall I use and when?

 Your teachers will guide you...but as time passes you will be able to decide which one will work best for yourself.

Your teachers will teach you how to think hard and revise in lessons.





Embed the knowledge and understanding

Reduce – pick out the **key points** from the information.

Transform – change the format of the information (e.g. words to pictures, numbers to graphs)

Deconstruct – break the information down into its parts or 'chunks' (e.g. formulae in maths).



PiXL Revisit: Reduce to 6 points

Unit / Topic: Information **Reduce to 6 points Reduce to 3 key points** R 1. A. Ε 2. 3. В. 5. C. Ε 6. Information **Prioritise (most important)** WHY? 1. 2. 3. 5. 6.



PiXL Revisit: Transform

Unit / Topic:

NOTES:

Words to pictures
Pictures to words
Numbers to graphs
Graphs to numbers
??? to an anacronym.
Any 'process' into a flow chart
Experiment to a flow chart.

Picture

Picture

Reduce/ transform.



PiXL Revisit: Experiment on a page

Experiment Title:

Process / Method

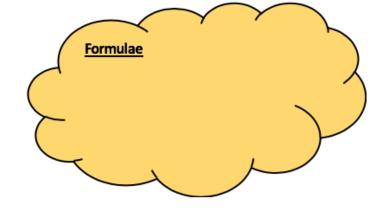
- 1.

- 5.
- 6.

- 9.
- 10.

Results









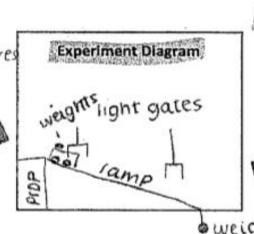
PiXL Revisit: Experiment on a page

Experiment Title: Investigating force mass and acceleration

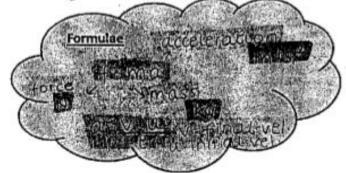
Process / Method

- 1. set up all the equipment
- 2 adjust slope until trolley moves
- 4. measure length of card 3. put a piece of card on trolley

- 6. put masses on top
- 7. fasten pulley at bottom
- 8. drop mass, let trolley roll
- 9. record velocity
- 10. workout the acceleration







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celler	SM SSS Wo	CHEST STATE	NAMES OF STREET

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		0.61	1.56	1.03	0
mean answer	-0-9	0-61	1-56	0.97	0
20		0.63	1.48	0.95	0

20

Equipment

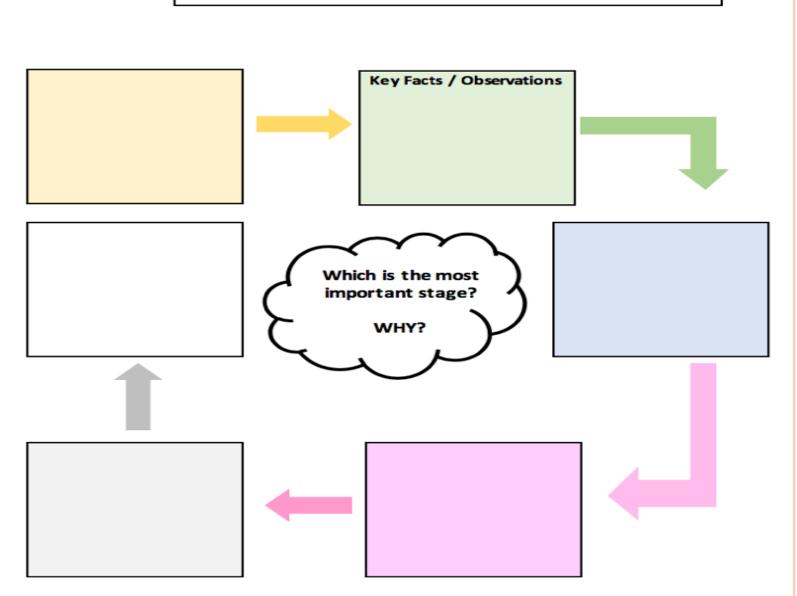
- trolley
- · ramp
- props
- ·string
- · puney
- · masses
- · cape
- Putty
- balance
- · 2 light gates
- aaralogger
- 2 clamps Istanas · Dox of crumpled
- · newspaper

the higher the mass, me acceleration decreases.

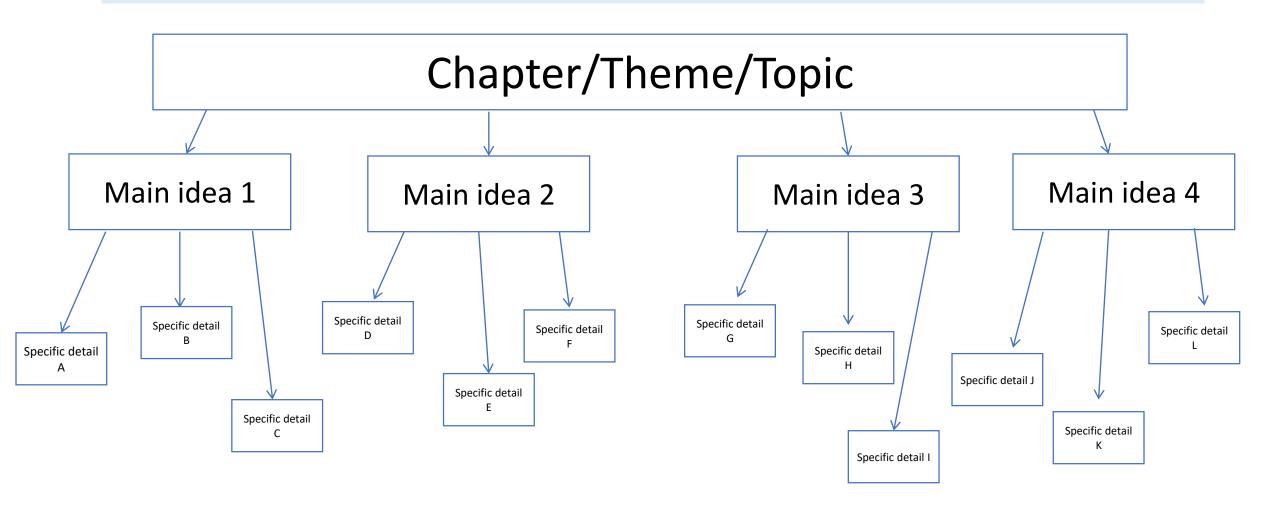


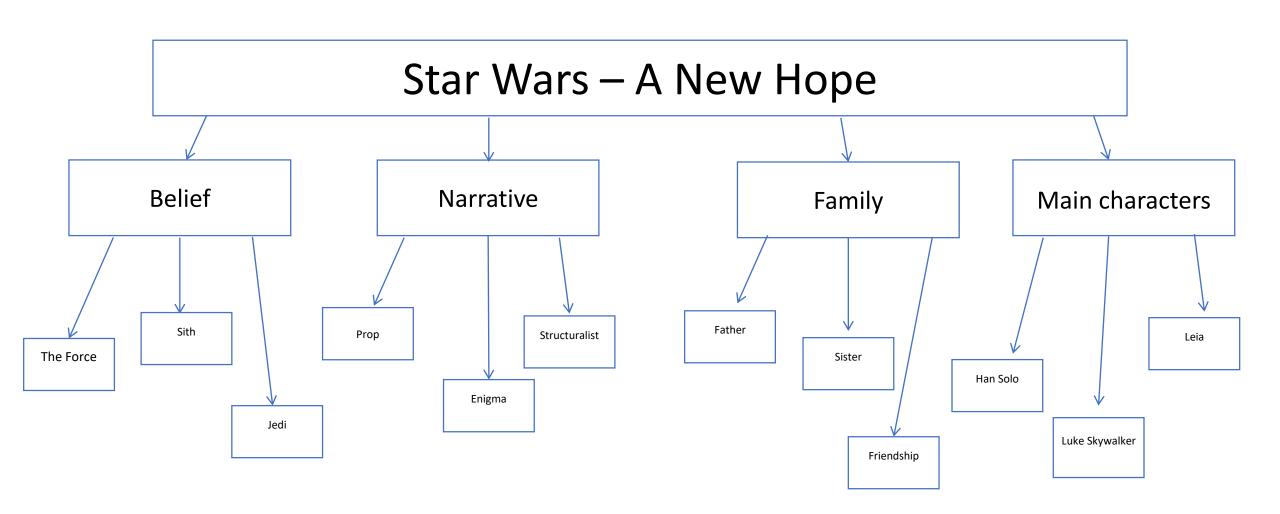
PIXL Revisit: Process and Categorise Steps and stages explained

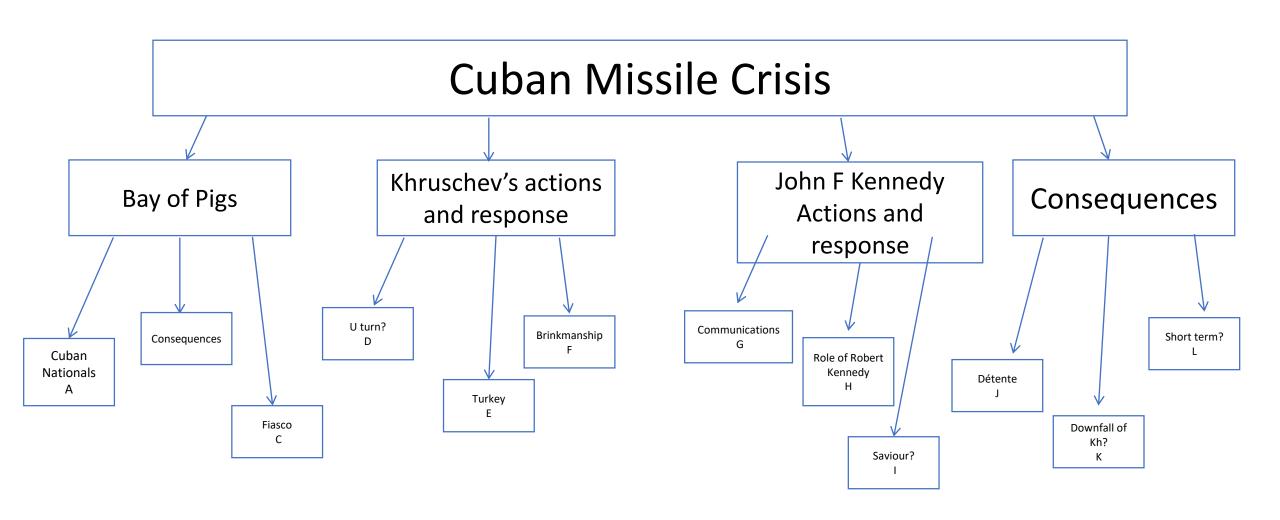
Unit / Topic:



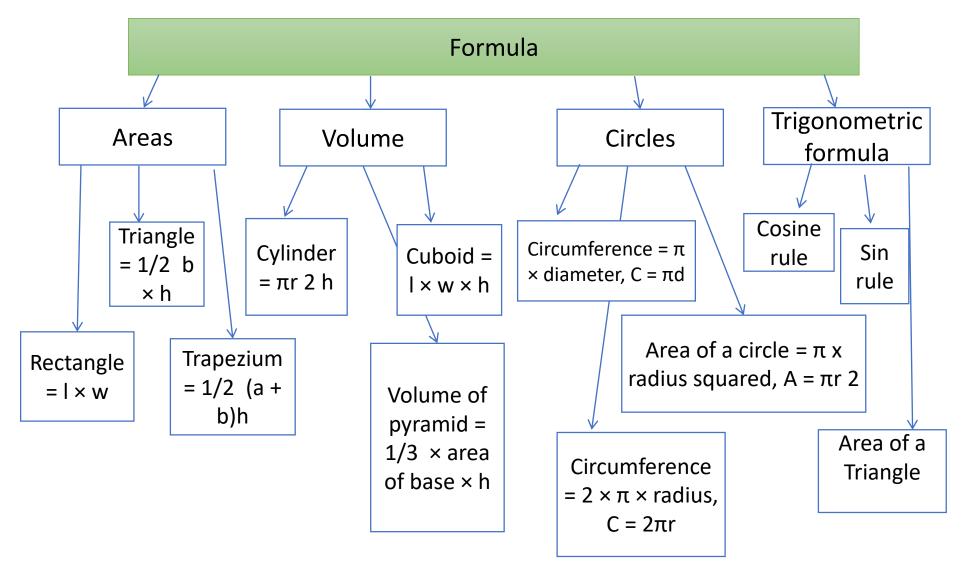
Deconstruct: to break down a lot of information into smaller parts.





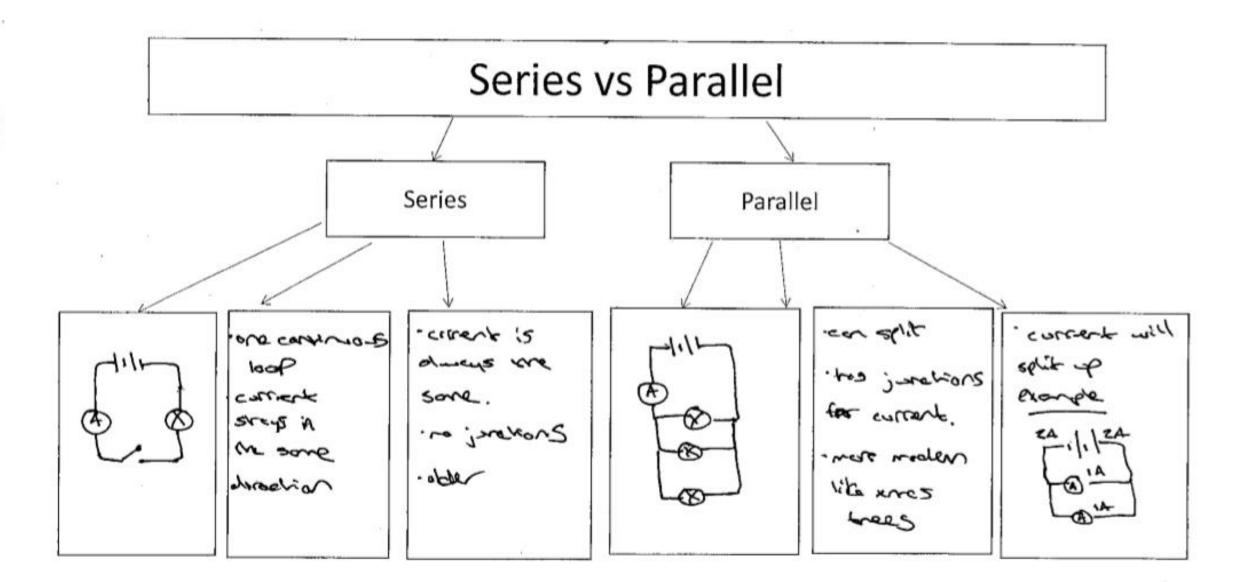


DECONSTRUCT



Taken from the article: 'What Will Improve a Student's Memory?' By Daniel T Willingham

Deconstruct: Make a large amount of learning manageable.



Make the information meaningful and useful through analysis and application

- Prioritise put information into order of importance.
- Categorise put the information into 'groups.'
- **Criticise find fault** with information or suggest alternatives or improvements or a different interpretation/opinion.
- Trends and patterns find 'themes' in the information.
- Practise repeat over and over again until you remember it.





PiXL Revisit:

PiXL Knowledge	Prioritise - Significance and Importance		
m 12.5 m 12.5 m			
Notes:	Key Facts, Dates, Words,	Number of Priority:	
1.		WHY?	
2.) WHY?	
3.		WHY?	
4.		WHY?	
5.		WHY?	



PIXL Revisit: Ranking Triangle

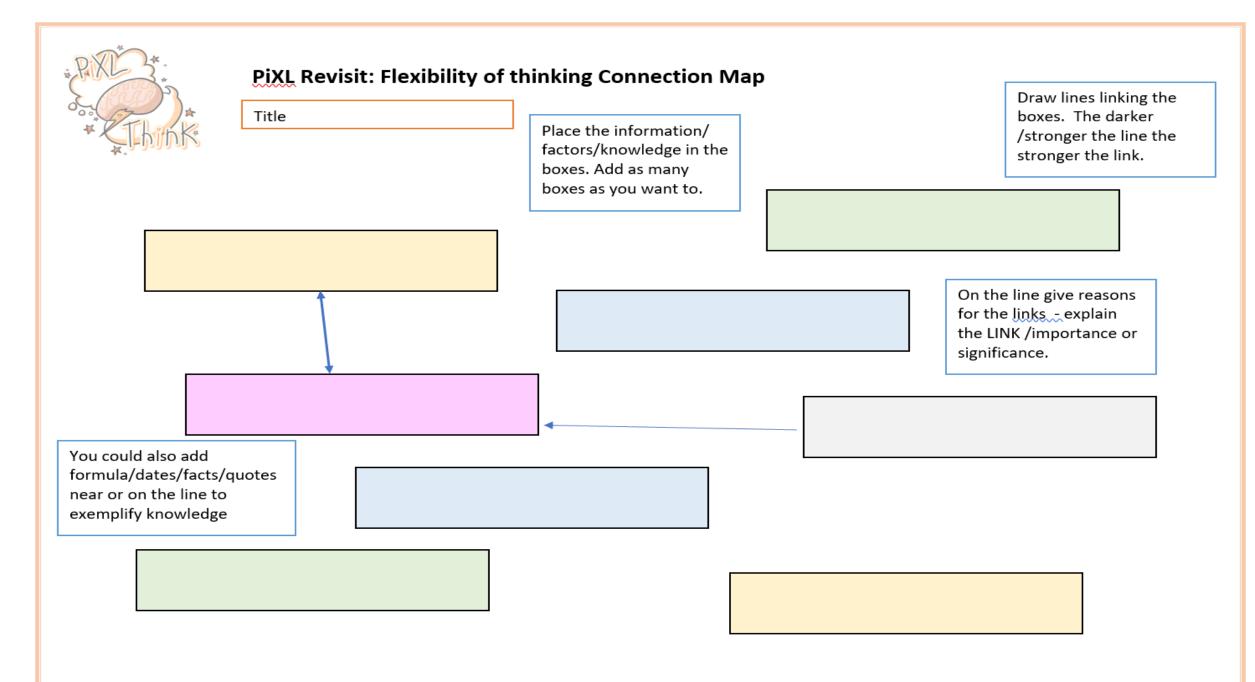
Grow, extend and develop through flexible thinking.

Make connections – find links between parts of the information.

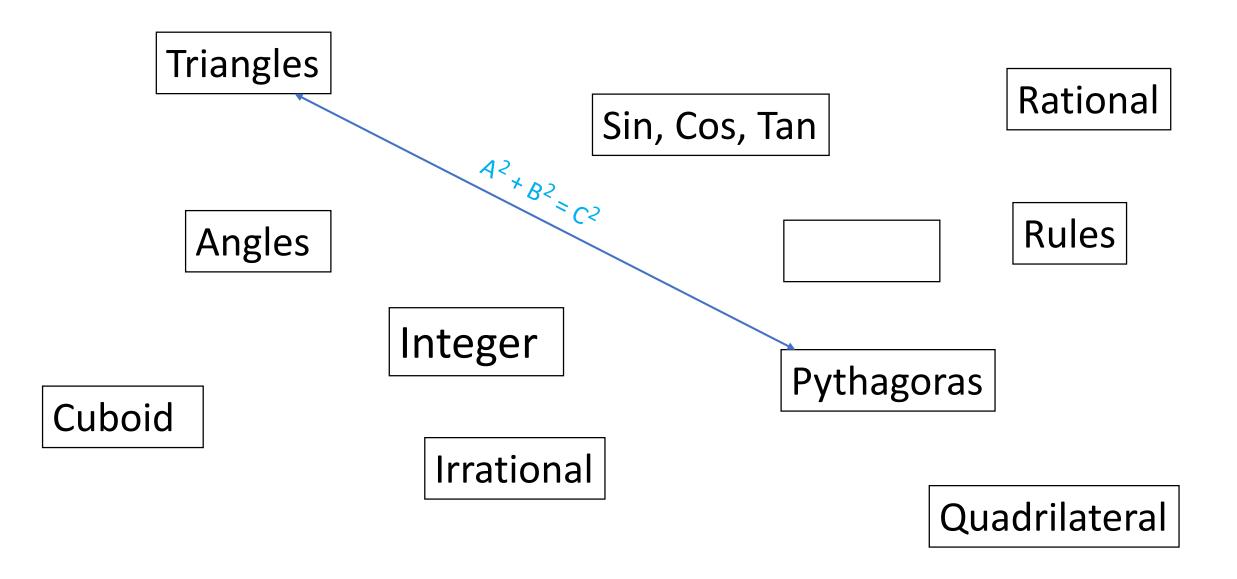
Compare – find **similarities and differences** in the information.

Extend – 'take the information further,' 'build on it.'





Connection map; Maths





PiXL Revisit: Thinking Hard Model

lam	ne of Topic:
lam	ne:
las	s:
ake	a section of the text and do the following:
1)	Prioritise: Underline the three most important sentences here. Rank 1-3, briefly explain number 1. Cross out the least important sentence.
2)	Reduce: Reduce the key information into 12 words.
3)	Transform: Transform this information into four pictures or images (no words allowed).
4)	Categorise: Sort this information into three categories. Highlight and think of a suitable title for each category.
5)	Extend: Write down three questions you'd like to ask an expert in this subject.

Combines;
Prioritise
Reduce
Transform
Categorise
Extend



PiXL Revisit: 'Boxing Up' Activity

Name of Topic:
Name:
Class:
Read the text and then put your thoughts in to different boxes so that you have 'boxed up' the text.
Box 1 – three things I did not know.
Box 2 – three things I understand better now.
Box 3 – three things I already knew.



PiXL Revisit: Question Time

Name of Topic:	
Name:	
Class:	

When you read any text, you should be asking it questions, NOT just letting it wash over you. Read your text and pause and ask it questions - e.g. 'what do you mean when you say '...."?'

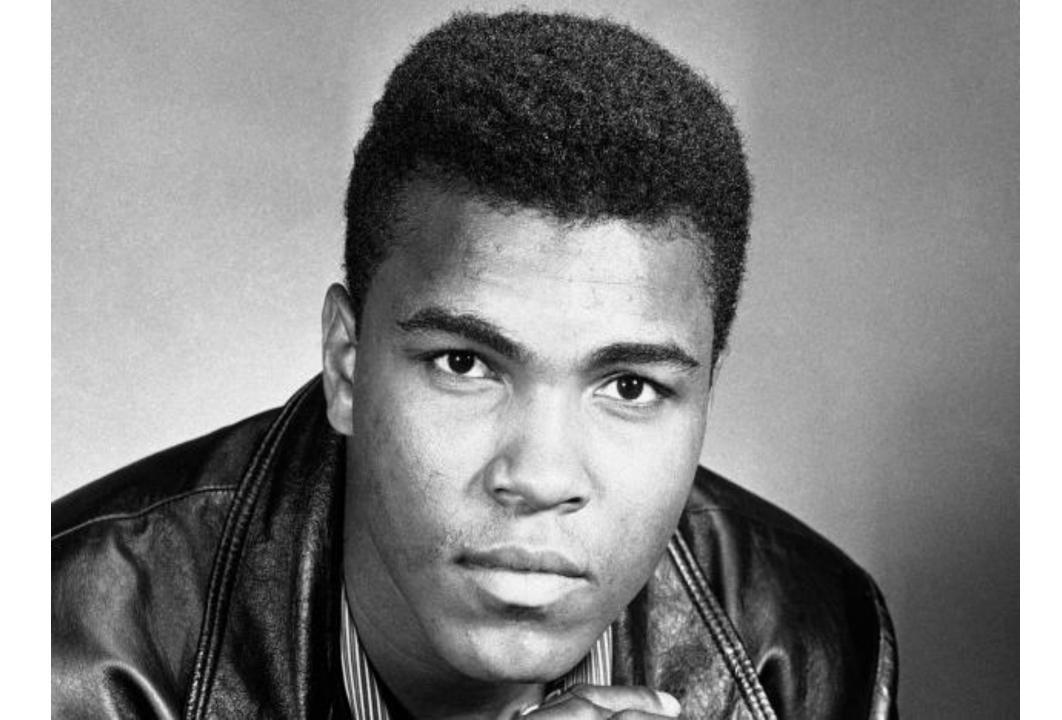
Questions I'm asking the text		Answers to those questions		Things I need to ask my teacher
	-		-	
	-		-	
	-		-	
	-		-	
	-		-	

Slow in the show











MUHAMMAD ALI 1942-...

Muhammad Ali, arguably the greatest boxer in the history of the sport. He was born in 1942, in Louisville, Kentucky in the United States. He was named after his father, Cassius Clay, Sr., who was named for the 19th century abolitionist and politician Cassius Clay. He changed it to Muhammad Ali in 1964. He became a boxer at the age of 12. As an amateur boxer he won many titles, culminating in the Light Heavyweight gold medal in the 1960 Olympics in Rome, Italy. When Ali returned home to the states, he was so proud that he wore the medal around his neck wherever he went. After a week, he went to a café and ordered a drink. The waiter said "I'm sorry, we don't serve coloured people". Ali was so incensed by this! He had represented his country, won the gold medal, and come back to this kind of treatment. Muhammad Ali ripped from his neck and threw it into a river. Ali turned professional at the age of 18. Ali's record was 100 wins, 5 losses when he ended his amateur career.

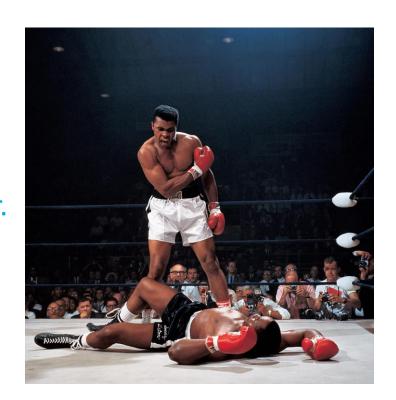
Ali became the World Champ at the age of 22. Clay was famed for his unorthodox fighting style. Rather than match his opponents with brute force, Clay brought tactics and strategy into the ring. With his fast-moving style, he was equally adept at dodging a punch as at delivering one. His fancy footwork soon became known as the 'Ali shuffle'. Ali also fought a great psychological game, often beating fighters before they stepped foot in the ring. It was in the pre-fight build up to his first world-title fight with sonny liston that Ali famously said "I will float like a butterfly and sting like a bee".

In 1967, when Ali refused on religious grounds to be drafted into the US army to fight in Vietnam, he was stripped of his title and banned from boxing., two decisions he successfully overturned in court. This he achieved by defending himself brilliantly without a lawyer. In 1971, Ali lost the title to Joe Frazier. Ali went on to win it back and then fought in two of the most famous fights in the history of boxing; The Rumble in the Jungle, versus George Forman and The Thrilla in Manilla, again versus Joe Frazier. Ali is the only boxer to have held the World title on 3 separate occasions. Ali retired from professional boxing in 1981, at the age of 39, with a career record of 56 wins and 5 losses, and as a three-time World Heavyweight Boxing Champion. Throughout his boxing career Ali was won over 50 million \$. Muhammad Ali became a Muslim around the age of 22, and a member of a group known as the Nation of Islam (or the Black Muslims) and was inspired by the teachings of Malcolm X. Muhammad Ali has been married 4 times, and has had nine children. There have been many films made of his life, most recently with Will Smith in the title role. Ali was awarded the coveted title of 'Sportsman of the Century' by the BBC in 1999. Although suffering from parkinsons disease, Ali still makes many public appearances. He refuses to allow his disability to beat him. He travels around the world doing great work for charity.



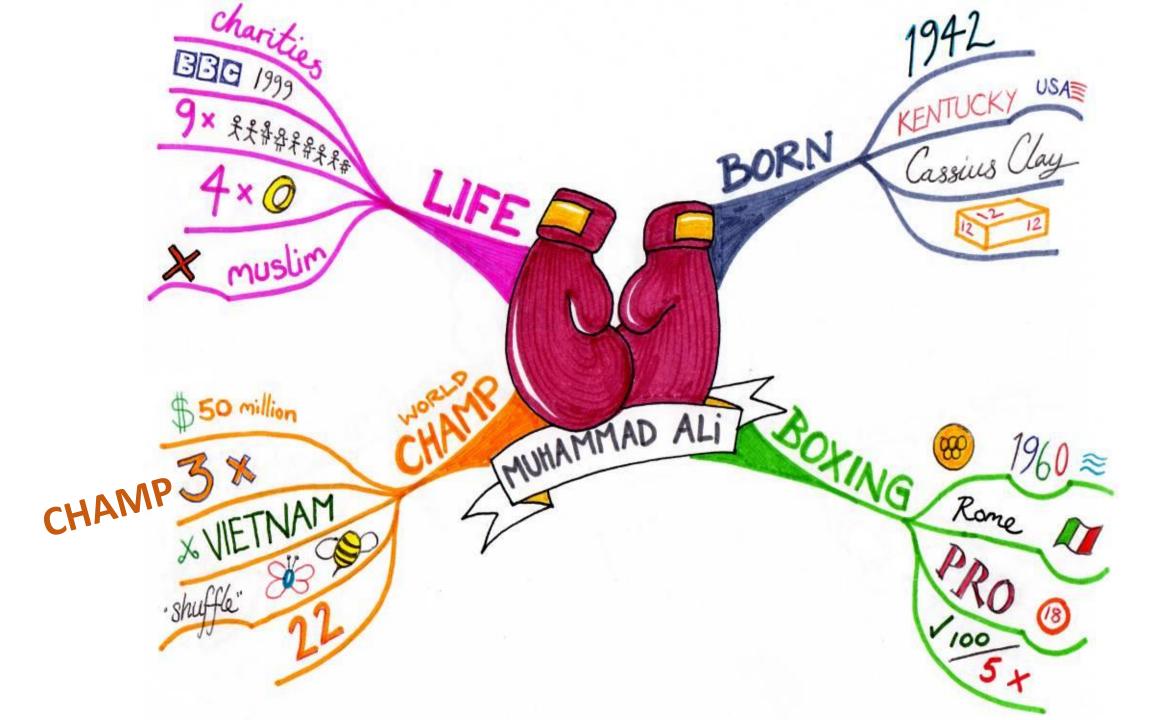
Muhammad Ali

- 1. What year was he born? 1942
- 2. What year did he win the Olympics? 1960
- 3. What did he do with his medal? Threw it in the river.
- 4. Why did he do that? In protest for black civil rights
- 5. "Float like a...? butterfly and sting like a bee"
- 6. How many times was he married? 4!
- 7. How many children did he have? 9!



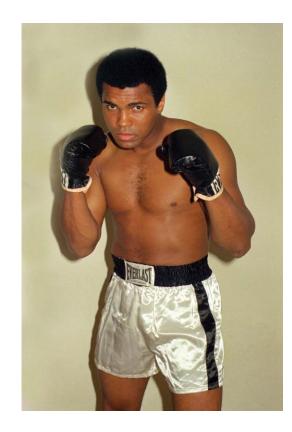






More test!

- 8. Where was he born?
- 9. What age did he start boxing?
- 10. What at age did Ali become world champion?
- 11. Which war did Ali refuse to fight in?
- 12. How much money did he earn as a boxer?
- 13. What religion was Ali?
- 14.In 1999, he was named...?





Mind maps are brilliant because...

They combine; reduce, transform, deconstruct, categorise and make connections.

Mind maps 'must see;'

- Google
- You tube
- Positively Mad Mind Map video.
 - The science behind why they work.
 - How to do easily and effectively.
 - All the things you can use them for.
 - Why they are so much better than simply copying notes.



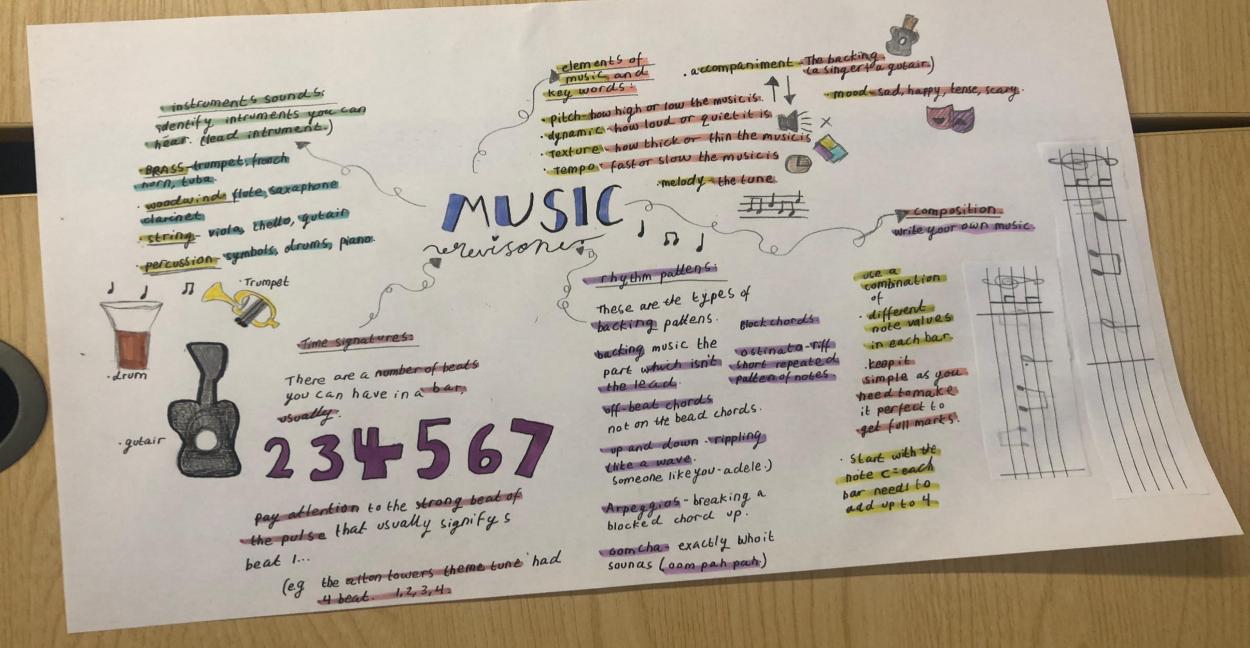


How to do an effective mind map.

- 1. Page is landscape
- 2. Central focal image (trunk)
- 3. Key words / topics (branches)
- 4. Detail (twigs and leaves)
- 5. All lines are connected
- 6. One word/picture per branch
- 7. Use colour.



if you heat this uptproten) it will & potable water loce its chapa and will not Bafe to drink pace maker through The shie to fit these shapes in any more the except is now citter beds in the uk 40 bill potable water: becterez "Dentyred! acid PH Scale this shape is formed. Sufface waterlakes, rivers, resevers structured a ground waterrocks, ground/trapped water. achino de petrol waste water. naphta water contaminated by lock & key relison humans. neutral Antance Havelled by fractional desidation; s Airence travelled by a process used to seperate with different > enzymes: enzymes are biological catalyses that speeds up boding points. chemical reactions without using the cells energy # pac-man States of matter breaks in (skirencymes) Keert S eparatin. W pieces Substrate Lechnques (food e caliva filtration-separates things tamplase) (Starch) cartive site liguid SOLITE using size lwhere the process freeflowing Distation-Separates things cant move cant & come s nappers) be squashed around can be catalosp tightly. random squashed From your using neat Compacted a mangement not many mouth chromolography separates vibrates CON GANTLU solvent. Levid colvent that can dissolve in a particies taxes shape of when nested Flow things uting water liquid solute container solute foolid that can dissolve in a liquid SITUEDE



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· condition S

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beaten & whipped

very cocul & dangerous Job

dangerous the machines cost.

· conditions

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They would attack ten if they disabley.

· conditions

· Factories:

children were

sent to work in

extra money for the family Most children did nt

age of 5,6 8/07.

live above the

factories to earn

factories were like working as a slave. They would threaten to kill them in they would work.

Year & Hope A 2019

white chapelis
full of crime because
it was easy to
commit. Because
of nousing,
employment &
immagration.

your fingers bleed & break. Low could also get Lung concer.

Was T

Working conditions!

last people would

· Logding

men mostly occupied the house as it was closer to thier work Station. There went enough heds you had to share.

they can't afford to buy property

If you want

LH you proba-

nevergetout

into a

bly would

unless you

get very rich.

The familes are Split apart like men, nomen, son & daug. hter all Split up. Jobs:

they had to hit rocks until they are small and unweave rope into yarn basically the dobs were purithments for bieng poor

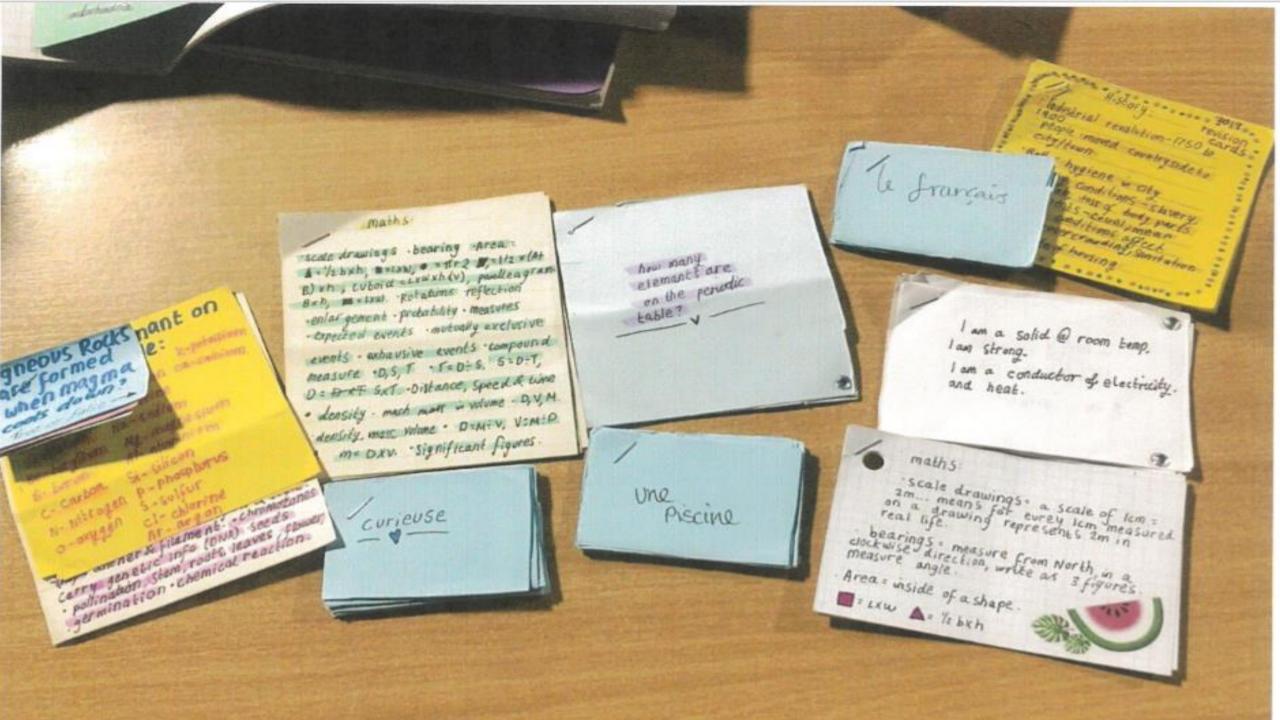
belongings most people will by to steal them. It was crowded, hot and the smell was visofferable.

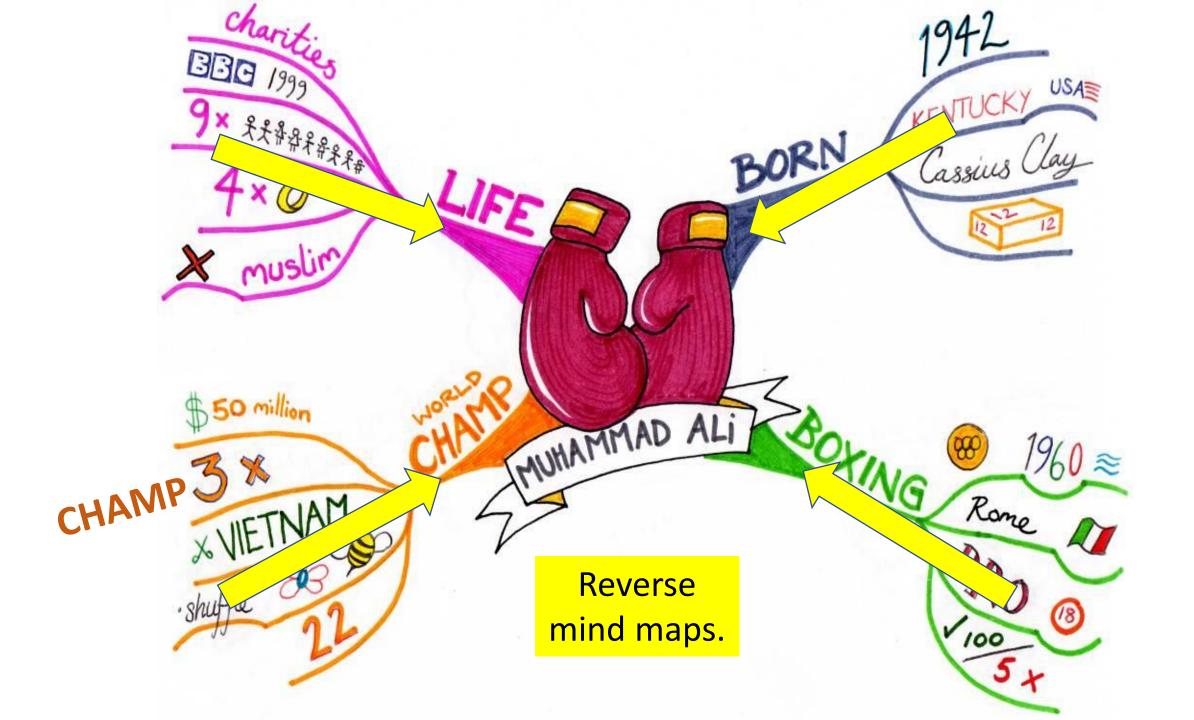
Reverse mind maps.

Same process but in reverse;

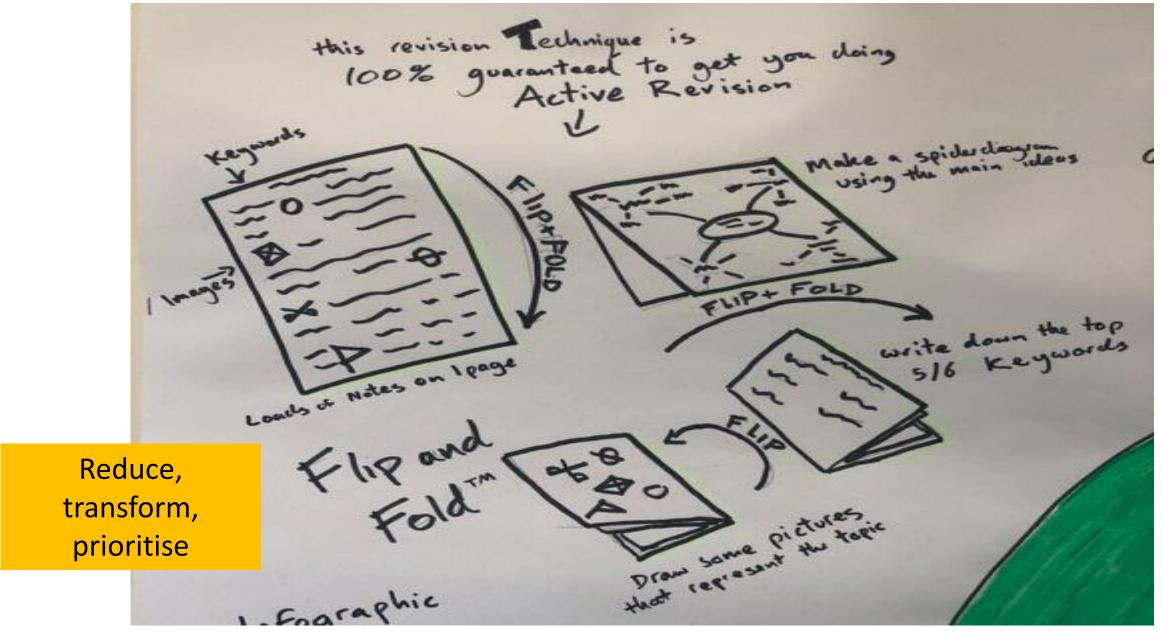
Leaves -> Twigs -> Branches -> Trunk

 Lots of pupils prefer doing it this way...so try both!





Flip and fold.



So...thinking caps on when you learn and revise!

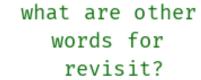


Phase two...Revisit.



REVISIT YOUR OLD IDEAS WITH NEW EYES

> THIS HAS BEEN A JEREMYVILLE COMMUNITY SERVICE ANNOUNCEMENT.







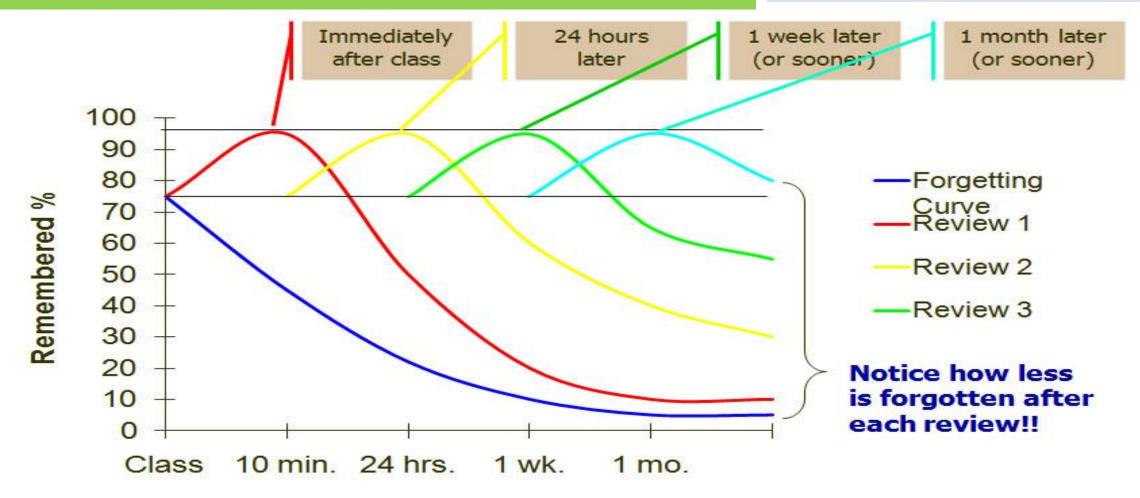


reconsider, review, reexamine, return, reevaluate, revise, rethink, come back, frequent, redefine



Beating the forgetting curve.

The forgetting curve describes the decrease in ability of the brain to retain memory over time. The issue was first hypothesized by **Hermann Ebbinghaus in 1885**.



You **MUST <u>REVISIT</u>** the thinking hard resources you make **AT LEAST FOUR TIMES!** So **KEEP** any revision resources you make or use in a folder.

Slow in the show







	Name:				For	m Group:									
m	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	у	Wednesday	Thursday	Friday	Saturday	Sunday
FEB	18	19	20	21	22	23	24	2:	5	26	27	28	29		
<u> </u>															
H:															
MARCH					1	2	3		4	5	6	7	8	9	
<u>~</u>						·									
A	11	12	13	14	15	16	17	12	в	19	20	21	22	23	
\exists															
	25	26	27	28	29	30	31			·					
								:	1	2	3	4	5	6	
APRIL															
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ద										-					
M	22	23	24	25	26		28	. 2	9	30					
											1		3	. 4	
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MAY	- 6	7	8	9	10	11	12	1.5	1	14	15	1.6	5.7	18	
₹															
	20	21	22	23	24	25	26	Z	7	28	29	30	31		
														•	
ш	i					5	2		3	4	5	6	7	8	
Z															
JUNE	5.0	11	12	13	14	15	16	i	7	18	19	20	2.1		
low t	o calendar	your revi	sion:												
. ALWAY	ALWAYS USE A PENCIL!! There are 85 possible revision days from 18th Feb to 18th May 6. Schedule your revision (in pencil) LEAVING NO GAPS!					CARSI		Order of entry		Subjects		No. of sessions	-		
	Starting on; 18th Feb and using the order shown.						dershown.		1st		English Language		х3	-	4
. Neatly	tly cross out your birthday (you get the day off!) 7. When you have entered all of your subjects once, start again u						nce, start again using	5	2nd		Maths		х3	-	

- Homework permitting, you will revise for two one-hour sessions on a school day and three one-hour sessions on a non-school day.
- Complete the subjects box on the right by entering your subjects in the following order;

English, Maths and Science (these have been done for you).

Cross out the science option you don't do.

Grade 4/5/D/C/Pass/Di (L1)
Grade 6/B/Merit grade subjects
Grade 7+/A/A* & Distinction grade subjects
All other subjects

- When you have entered all of your subjects once, start again using the same order. Repeat until you have filled in up to the 12th May.
- Revision during the exam period (from 13th May onwards): Using a different colour mark on all of your exams using a code,

e.g. M=Maths, Mu = Music

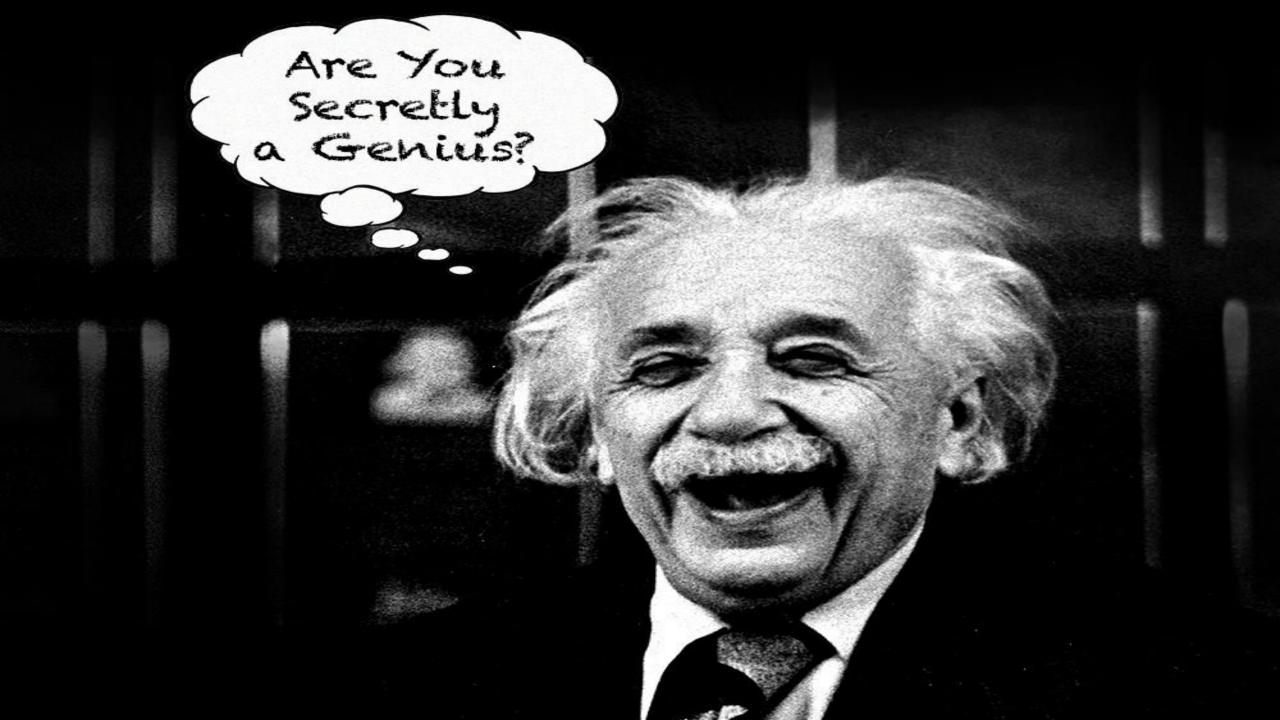
Enter subjects according to when your exams are.

Ensure you spend time revising that subject the day before the exam.

Order of entry	Subjects	No. of sessions			
1st	English Language	x3			
2nd	Maths	х3			
	Combine d Science	х3			
3rd	Biology, Chemistry, Physics	x1, x1, x1			
4th		x2			
5th		x2			
6th		x2			
7th		x2			
8th		x2			







You are if you focus your revision on what you need to.

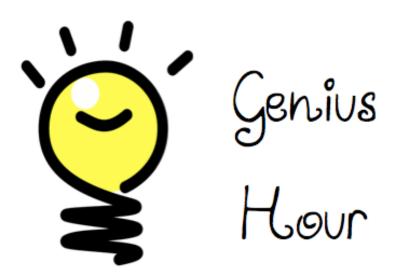
			Algebraic Argument	Expressions	Area Of A Circle	Circle Terminology	Derive Triangle Results	Calculating With Fractions	Ratios and recipes	Venn Diagrams	Compound Units	Problems Involving Ratio	
Students	Target Grade	Predicted Grade	5	6	6	4	6	7	7	5	6	5	
Abi	С	C1	2	1	3	0	6	4	6	3	4	2	
Grant	Α	A2	2	5	2	4	1	6	2	3	2	5	
Matt	С	C1	4	3	4	1	5	5	6	5	1	0	
Will	В	B2	3	3	5	4	2	2	1	5	5	1	
Danielle	Α	D2	5	3	5	1	4	1	6	2	6	2	
													•

- DTT = Diagnosis, Therapy and Testing.
- Know what you don't know...and revise that.
- Turn reds to amber and ambers to green on your Personal Learning Checklists (PLCs), Question Level Analyses (QLAs) and trackers.
- Reduce your workload and stress.

What should a revision session look like?

The Genius Hour.

- Review / Remember / Recall
 - Gathering (5 mins)
 - Think hard! (20 mins)
 - Break (5 mins)
 - Remember hard! (15 mins)
 - Break (5 mins)
 - Recall in a Test (10 mins)



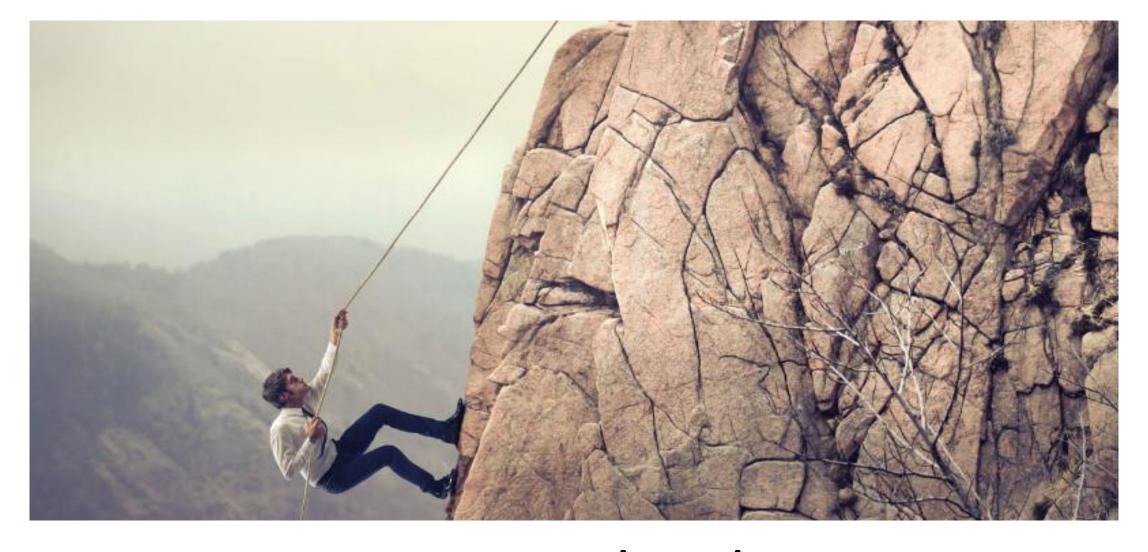


20 mins 'Thinking hard'

- You can use your notes for this bit.
- Use the thinking hard activities.
 - Create some <u>THINKING HARD RESOURCES</u> e.g. reduce, categorise, connect etc.
 - Do whichever technique works for you.
 - Make your mind map display them at home.
 - Make a 'flip and fold.'
 - Record and play-back key information (auditory learners).

DON'T JUST SIT THERE LOOKING AT IT AND EXPECTING IT TO GO IN!



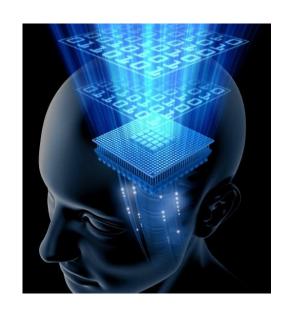


5 minute break. show resilience!



15 mins 'Remember hard'

 Whatever technique you have used, try to commit the information into your memory.



- Open-shut your book / notes.
- Use flip and fold.
- ACRONYMS use the first letter of each word to prompt your memory.
- MNEMONICS silly sentences to remember the order of something (Never Eat Shredded Wheat).





5 minute break. show resilience!



10 mins testing yourself

- Self-Test.
- Parent to test.



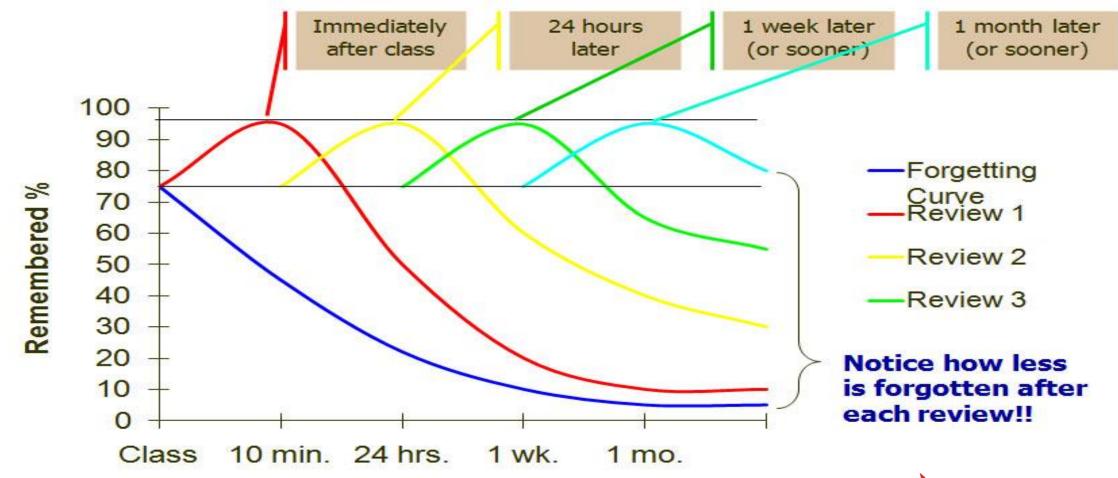
- Do a Summary Poster.
- Test in back of revision guides / workbooks.
- Complete a test on a recommended learning website.
- Exam question from your teacher or an exam board websites.
- Focus your revision on what you got wrong!
- Present to parent.
- Reward yourself!





Beating the forgetting curve.

The forgetting curve describes the decrease in ability of the brain to retain memory over time. The issue was first hypothesized by **Hermann Ebbinghaus in 1885**.



Don't forget you **MUST REVISIT** the revision you do **AT LEAST FOUR TIMES!**So **KEEP** any revision resources you make or use in a folder.



Slow in the show







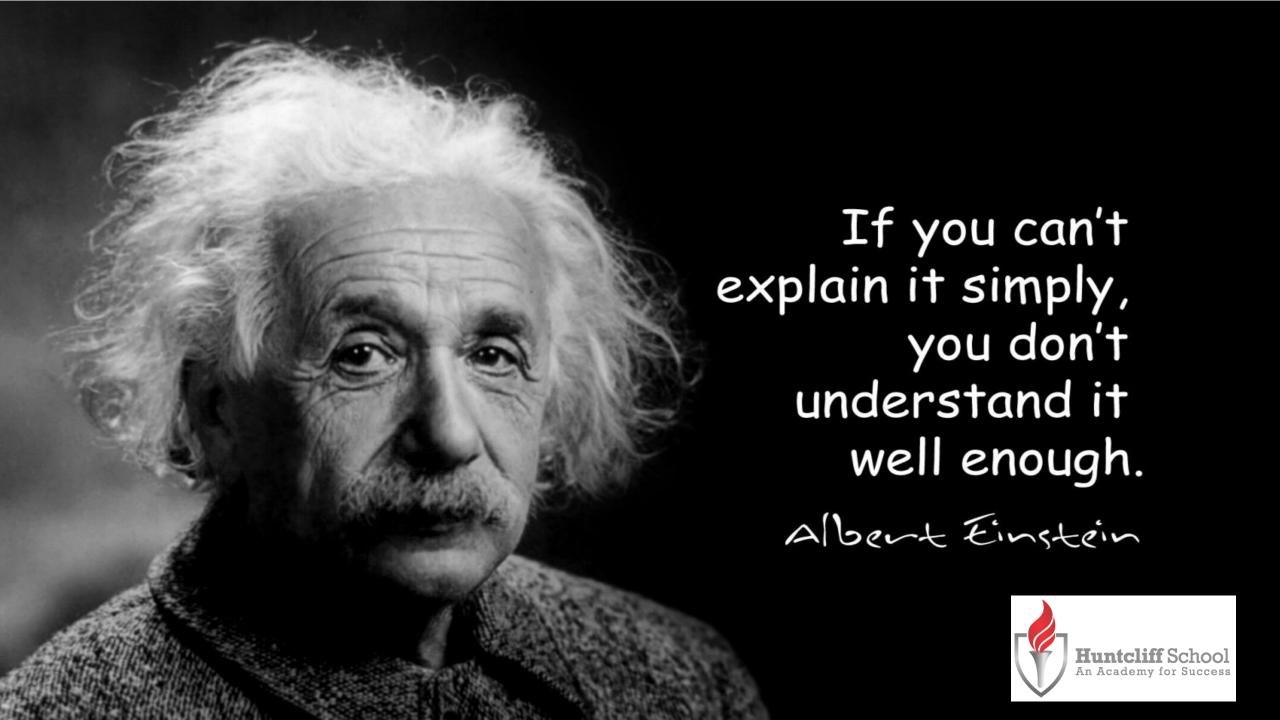
Parental Presentations.

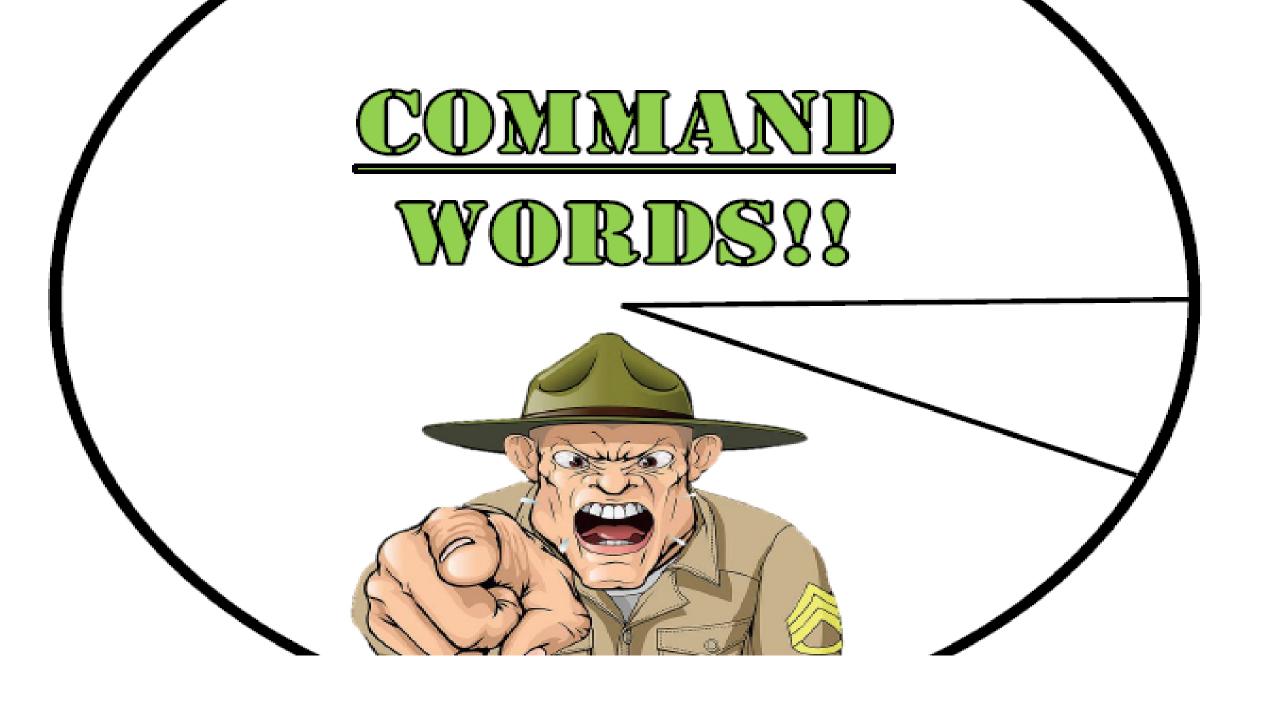


Pupil presents for ONE minute on each subject revised.

Parents have ONE minute to ask and have answered all questions.









Exam command words: Heads and Tails.

Command word
Analyse
,
Calculate
Compare
Complete
Define
Describe
Discuss
Evaluate
(aka assess)
Explain
Justify
List
Outline
State / give / name.
Suggest
Suggest Use the
information in the
paragraph /
diagram / graph /

What you have to do in your answer.	Handy hints to help.
Only give the main key facts about the topic.	Check how many marks this question is worth. It is likely to be a small number of marks so you only need a short answer and you won't need to go into too much detail.
Give a description of something – what it is it like?	Try to use subject specific words.
Describe the advantages and disadvantages (good and bad points) of something.	Use comparative words like 'better than,' 'more than,' 'less than,' 'quicker,' 'more expensive.'
You only need to write the correct answers with no explanation needed.	Always check how many things need to be in your list and make sure you 'beat' that number with your list.
Use the numbers given in the question to work out the answer (with or without a calculator).	Always show your working out and include units
Study or investigate something in detail so that you can explain, understand or interpret it.	You will often be asked to analyse a graph or a set of results or some data so that you can explain what it shows.
Give the meaning of something.	Learn the keywords and terminology of all your subjects!
Give your reasons why you believe/think something.	Use linking words like so," 'therefore,' 'because,' 'due to,' 'since,' 'this means that.'
Simply give the answer. Only a short answer is required unless the questions asks for a further explanation.	Always check how many things you have to state / give / name. If it says 'state two' then make sure you give at least two or you will lose easy marks.
You need to apply what you know and come to the answer that you think is correct.	Useful words are 'may,' 'might,' 'could' and 'l think that.'
Describe the similarities and/or differences between two things in the question.	Use comparative words such as 'however,' 'whereas,' 'but,' or 'on the other hand.'
The answer must be based on the information you have been given in the question.	Unless the question says otherwise, you don't need to use any other knowledge than what has been given to you in the question.
Answers should be written in the spaces provided e.g. in a table, a graph or in spaces in sentences.	Sometimes the words will come from a list given to you. Always check if you can use the
Give the reasons why or how something has happened.	We'll send this
Consider all the issues raised in the question. Show what you know about them.	to you again.

We are going to...

- Email all these resources to pupils' school email address and parents' email address AGAIN.
- This includes the revisit booklet with all the revision worksheets (templates).
- Text parents to REMIND them that you have these fantastic revision resources.



CHANCES OF SUCCESS:

0% I WON'T 10% I CAN'T 20% I DON'T KNOW HOW 30% I WISH I COULD **40%** I WANT TO

60% I MIGHT 70% ITHINKICAN 80% ICAN







Effective learning and revision.

- 1. Whatever it is that you are trying to learn...do it by thinking hard!
- 2. Use the thinking hard devices and the <u>booklet</u> to help you.
- 3. Revisit key learning at least four times so that you can remember at least 80% of it.
- 4. Revise throughout Year 11.
- 5. Revise using the 'genius hour.'

