# Neuroscience Tips to Boost Your Grades

Mr Brook –

Assistant Headteacher Learning and Teaching



#### Which of these do you usually do when revising?

Follow a timetable

Read notes

Test yourself

Highlight textbook

Use visual elements

Write summaries



# Effective revision strategies

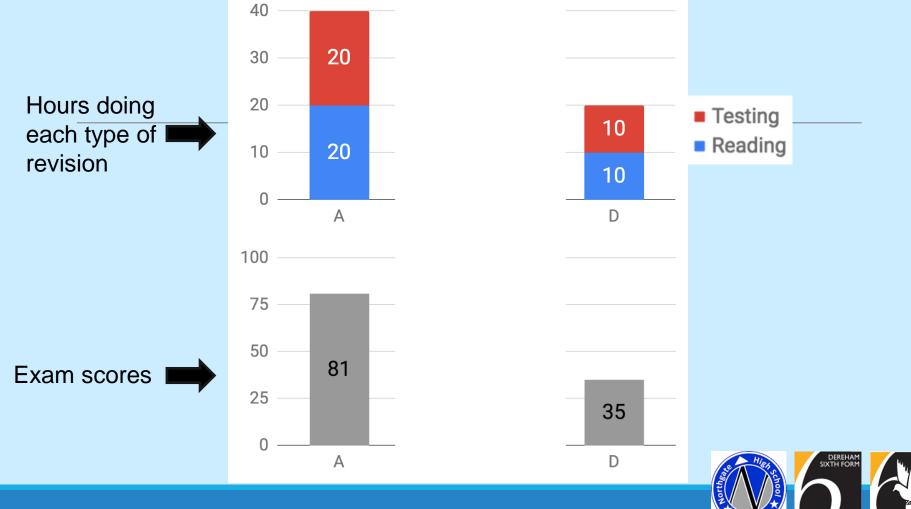


## #1 Test yourself

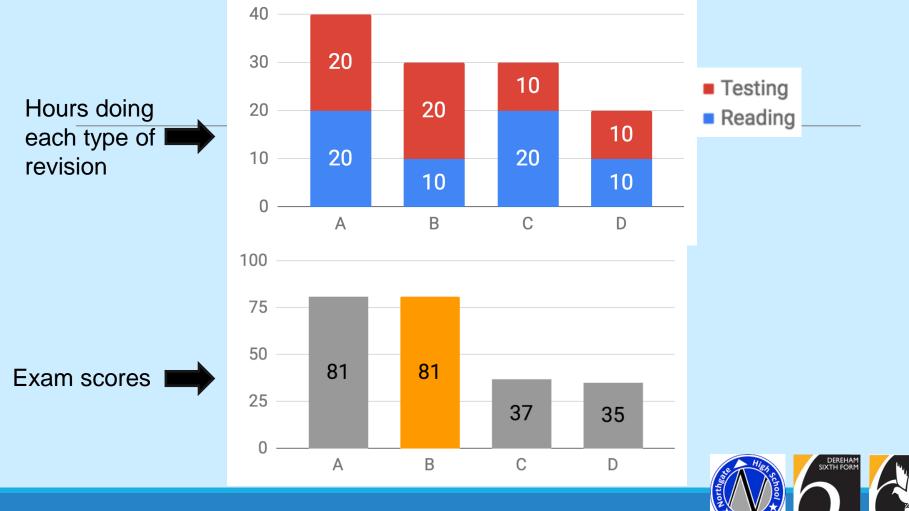












#### #1 Test yourself

Actively bring information to mind instead of passively absorbing it







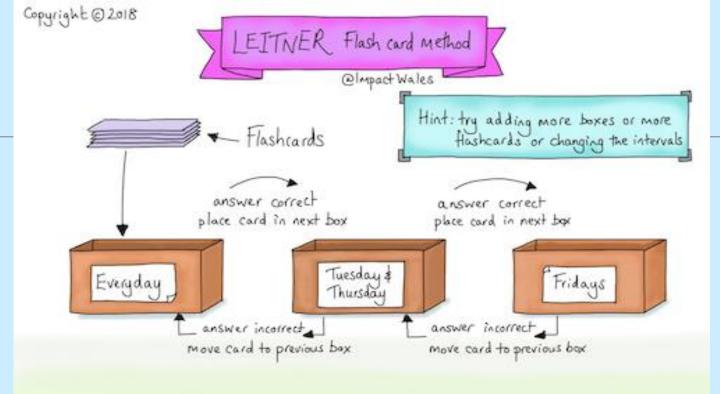


#### #1 Test yourself

Some ways you can do this are:

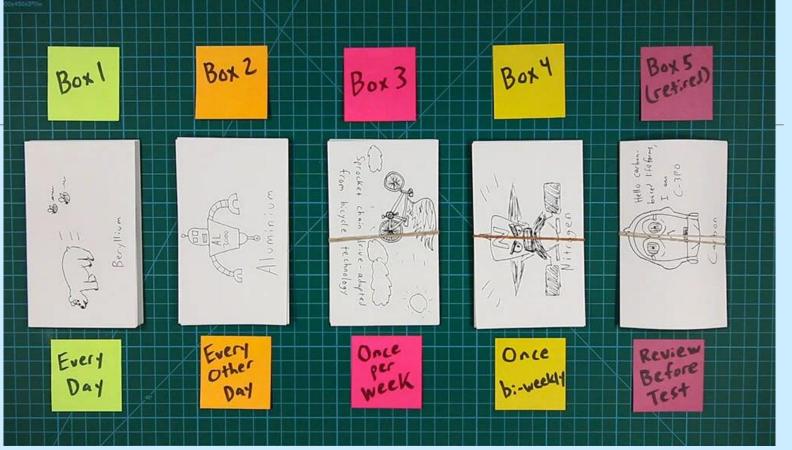
**Using flashcards** - put a question on one side and the answer on the other side. Ask yourself the question and try to remember what's on the other side. Do this over and over.





An effective use of flashcards to prompt of recall learning using spaced practice proposed by Leitner in the 1970s. It focuses on the proficiency of recall of the learner. Information which is easily recalled has a longer time tapse before the next recall opportunity.









#### #1 Test yourself

Some ways you can do this are:

**Answer past papers** - by practicing past papers you are actively having to recall information to answer the questions.

Revision Guides and the internet are two places you can find practice questions.

#### #1 Test yourself

Some ways you can do this are:

**Study group** - talk about what you need to know with your friends and test each other on pieces of information.

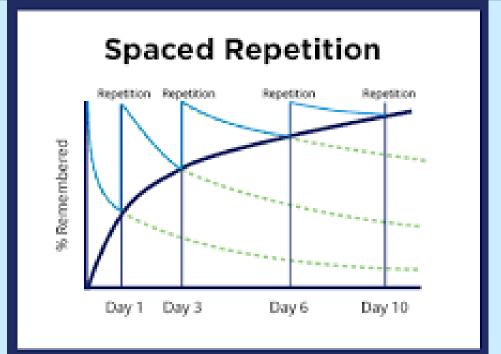


#2

Follow a timetable and revisit learning regularly



Spaced Learning and Repetition: How They Work and Why









#### #2 Follow a revision timetable

Revise in small sessions spread out over time

Switch between topics every now and then

Do not cram



Α	В	С	
2h	7h		
2h	7h		
2h	7h		
	4h		
2h			
2h			
4h			
2h			
2h			
4h		2h	
		7h	
2h		8h	
1h		8h	

Marathon







#### Find it hard to concentrate on your own?

Revising as a group can be very effective – both asking and answering questions provides you with a chance to practice formulating answers to possible questions.

Working with others can also help you stay on task – it is harder to get distracted if other people are looking at you for an answer!

Working on your own? Using a timer (eg Pomodoro Technique – click here for a guide and link to a timer)

Study Buddy websites can also help with this (eg <u>StudyMD</u> or <u>Tan Yi</u>) can also help to develop the ability to focus on work for an extended period of time.

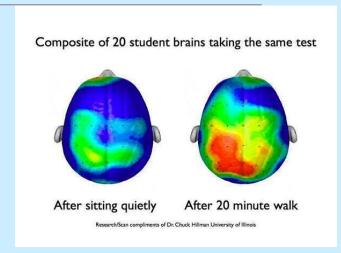
#### Take regular study breaks

If you begin to feel stressed, tired and that no new information is entering your head, **take a break.** 

There is no point forcing yourself to study for hours upon hours as this will not result in a positive outcome.

Taking regular study breaks and exercising is proven to engaging your brain in studying and improve your exam performance in the long-run. You should aim to do something active, not just sit and doomscroll!

The diagram to the right shows that taking a break and doing something different can increase the activity in your brain when taking a test.



#### STUDY TIMETABLE



	MºN	TUE	WED	THU	FRI	SAT	SUN
9-4	SCH00L	S(Hool	S(HººL	SCHSSL	S(HººL		
4-5	(HEM	BAND	BAND	ENGLISH	BAND		
5-7							
7-7:30	BILLOY	TRUMPET	ENGLISH		MATHS	HISTORY	
7.45-830	GEº	(HEM	MUSIC		ENGLISH	MUSIC	
830-9	HIST?RY	MATHS	BICLOGY		BIºLºG	MATHS	
9-9:30							





### #3 Add visuals







#### #3 Add visual elements

This makes notes easier to understand and remember







#### Use Mind Maps to connect ideas

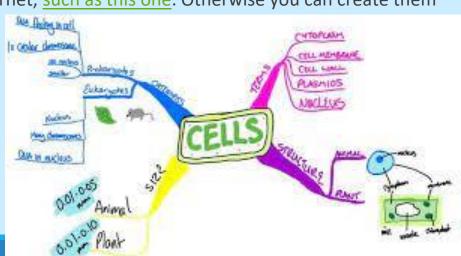
If you find it difficult to remember tons of new study notes, Mind Maps may be the key to improving your memory. The theory behind mind mapping explains that making associations by connecting ideas helps you to memorise information easier and quicker.

There are many free mindmap tools on the internet, <u>such as this one</u>. Otherwise you can create them

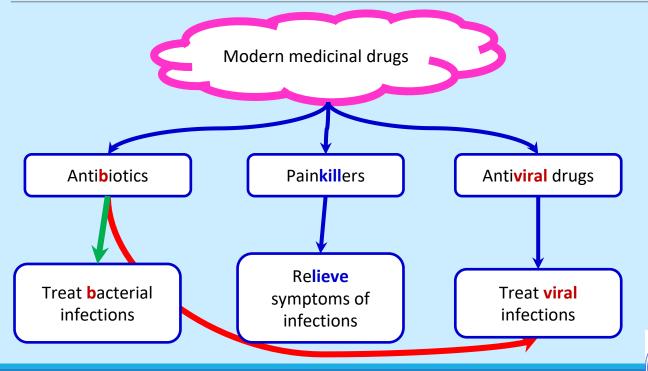
yourself with A3 paper and coloured pens

This guide to mindmapping has many hints and examples to help you get started: -

https://felt-tip-pen.com/mind-mapping/



Modern medicinal drugs can be divided into three types. The first type is antibiotics. The function of antibiotics is to treat bacterial infections. Antibiotics do not work against viral infections. The second type of modern drug is painkillers. These drugs work by relieving symptoms of infections. The last type of modern drug is antiviral drugs. Unlike antibiotics, these drugs treat viral infections.







#### Summary







#### Summary

- #1 Test yourself
- Past papers, colleagues, flashcards,
- #2 Follow a revision timetable and revisit learning regularly
- Do not cram, spread out, switch topics, see it often
- #3 Add visual elements
- Timelines, diagrams, mindmaps, ...







#### Don't forget to adapt for Different GCSE Subjects...

It may seem obvious but many students try to study for different subjects using the same study methods. Your GCSE revision should take account of the difference between your subjects and the challenges they represent.

For example, **Flashcards** are an ideal study aid to help you prepare for MFL, PE, and Science where you need to remember key definitions. An **Online Quiz (eg Sparx)** is a great way to test your GCSE Maths skills, while you might benefit more from using **mindmaps** to study English.

Once you understand that your subjects need to be approached differently, there is no stopping you!

