### Effective Study Skills at Key Stage 3

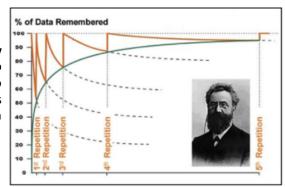


Retrieval is trying to remember information you have previously learned, so you can access it easily at a later date. When we are asked a question, our brain makes connections to other things we know. By repeating the question regularly, those connections are strengthened, and eventually the information transfers to our long term memory making sure that we are successful in the GCSE exams and in study post 16.



# What does the research say?

This is one of the most extensively researched areas of learning . If we only learn something once, we are more than likely to forget it; we need to force ourselves to remember and re-learn the information if we want to cement it in our long term memory. Look at this diagram – those students who self-tested 3 times before the exam were far more successful than those who just re-read the text.

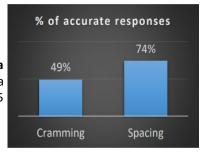


# How can you make it even more effective?

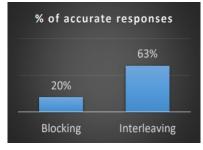
# P)

### **Spacing**

Cutting up your revision into smaller chunks and spacing them out over a period of time is much more beneficial than cramming an entire subject in a day. An hour of History each day for 5 days is much more effective than 5 hours in one day.



# **Interleaving**



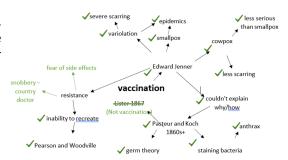
To improve your results further, also consider interleaving. This is where you **mix up the subjects and topics you revise**: 30 minutes of Shakespeare, 30 minutes of algebra, 30 minutes of Poetry, 30 minutes of Ratio - rather than an hour of English and an hour of Maths.



# **Effective Retrieval Strategies**

# 1. Brain Dump

Choose a topic and write down as much as you can remember, without referring to your notes. Check your notes and see what you missed then try to fill the gaps without the notes. Check your notes a third time and add the missing information.





# **Summary: Brain dumps**





Identify knowledge

Identify the knowledge/topic area you want to cover





Write it down

Take a blank piece of paper/white board and write down everything you can remember about that topic. (with no prompts)

Give yourself a timed limit (e.g. 10 minutes)





Organise information

Once complete and you cannot remember any more use different colours to highlight/underline words in

This categories/links information.





Check understanding

Compare your brain dump to your K/O or book and check understanding.

Add any key information you have missed (key words) in a different colour.





Store and compare

Keep your brain dump safe and revisit it.

Next time you attempt the same topic try and complete the same amount of information in a shorter period of time or add more information.

Brain dumps are a way of getting information out of your brain.

# 2. Flash Cards

Write flashcards for each topic, in all subjects, then mix them up for the most effective revision. Keep your flashcards simple one question, one answer per card.

# osmosis

Net movement of water from a high concentration to low concentration across a partially permeable membrane

# 1861

Pasteur published his paper about germ theory.

# Summary: How to use flash cards





# Identify knowledge

What are you creating flash

Do you have your knowledge organizer?

Use your book to look at previous misconceptions from whole class feedback.



Colour coding

helps with organization NOT

Use different coloured flash

Designing 1 Question per flashcard.

Making them concise and

Use a one word prompt, so that you can recall as much as you

No extended answer questions.



Write your answers down, then check. Or say your answers out loud. This really clearly shows the gaps in your knowledge.

Do not just copy & re-read.

Use the Leitner system to use



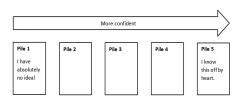
# Feedback

How have you performed when you look back at your

Is there anything you need to revisit in more detail?

Shuffle the cards each time you Is your knowledge secure? If so, move onto applying knowledge in that area in specific extended exam

Avoid answering the questions in your head: research shows that when you read a question and answer it in your head, you aren't actually testing your knowledge effectively. Say the answer out loud or write it down before checking it against the card, so you are truly testing if you can explain the answer properly



As you test yourself on the different piles, move the cards into different piles as you become monfident.





### 3. Quizzes

Write a set of questions and answers and ask someone else to test you. It's important to either write or say your answers 4 aloud.

### Public Health in the Industrial Revolution

Questions

- Give two reasons why people migrated to urban areas during the Industrial Revolution.
   Why did increased population density increase the risk of epidemics in urban areas?
- the risk of epidemics in urban areas? Give an example which shows that many public health systems in urban areas were overwhelmed during the Industrial Revolution. Why did many people living in damp and overcrowded housing increase the risk of epidemics during the Industrial Revolution? Why didn't the government in the early industrial Revolution take steps to improve public health services and living conditions?
- Give an example of a disease, caused by poor public health, of which there were epidemics during the Industrial Revolution.

- Improvements in agricultural technology ar the invention of the factory
   Diseases could easily spread from person to person.
- Multiple families would share one overflowing cesspit. 🗸
- 4. People had weak immune systems which made them less able to fight off diseases.
- 5. The government had a laissez-faire attitude to public health, meaning that they did not think that improving public health should be their responsibility. 

  6. The plague X Cholera or typhus (the plague was in the Niddle Ages and the Renaissance)

5/6 (83%)

Ingleby Manor

# **Summary: Self Quizzing**





Identify knowledge

Identify knowledge/content you wish to cover.



Review and create

Spend around 5-10 minutes reviewing content (knowledge organisers/class notes/text organi book)

Create x10 questions on the content (If your teacher has not provided you with questions)





Cover and answer

Cover up your knowledge and answer the questions from

Take your time and where





Go back to the content and self mark your answers in gree



Next time

Revisit the areas where there were gaps in knowledge, and include these same questions



# 4. Mind Maps

Mind maps provide a structured way to capture and organise ideas and information. They help users to understand concepts by breaking them down into their component parts. The technique is used to develop new ideas, or to break down and better understand existing information.

# Summary: How to create a mind map











Identify knowledge

Select a topic you wish to revise. Have your class notes/knowledge organisers ready.

Place the main topic in the centre of your page and identify sub topics that will branch off.

Identify sub topics

3. Branch off

Branch of your sub topics with further detail.

Try not to fill the page with too much writing.



Use images & colour

Use images and colour to help topics stick into your memory.

Put it somewhere visible

Place completed mind maps in places where you can see them frequently.

Avoid using too much information: mind maps are designed to summarise key information and connect areas of a topic/subject. If you overcrowd the page, you lose the point of the mind map and will find it harder to visualise the information when trying to recall it

# 5 Step Study Plan





What do you need to know? Break it down into topics and units. When you can retrieve it without effort, cross it off the list. It might help with motivation and organisation to have a 'to do' and 'have done' list.



# 2. Timetable a spaced schedule

Look back at the notes about spacing and interleaving. Study each topic little and often and mix up subjects and topics so you are revising a mixture each day. Be sure to leave yourself enough time to cover everything.



# 3. Use Effective Study Strategies

Test yourself, using retrieval strategies.



# 4. Identify the gaps in your knowledge

Having used the retrieval strategies, where are the gaps? What are you confident with? What do you need to go back to? What do you need to study more? Be honest with yourself – don't just focus on what you do know.



# 5. Close the gaps

Repeat the third and fourth steps of the plan until you are confident with everything. Some parts will be difficult, but don't give up. The harder you have to think, the more likely you are to remember in the end. 'Memory is the residue of thought.' (Dan Willingham)

# What else helps?



# Get some sleep

How many hours of sleep do you get each night? On average, teenagers claim to get 6-7 hours a night, when they should really be aiming for 9-10 hours. If you are only getting 6-7, you are depriving yourself of over 1000 hours of sleep each year.



# Limit your screen time

Mobile phones can be great tools for learning but are they having a negative impact on your learning? Catching up with friends, social media, movies and box sets is great – but when is the best time to do these things?



# **Look after yourself**

Being kind to yourself each day can have a big impact on your performance during revision and exams. Take a break and get some exercise. Aim to start the day with cereal or toast – but be sure to treat yourself later on in the day. Find time to do the things you love. Reward yourself for your hard work