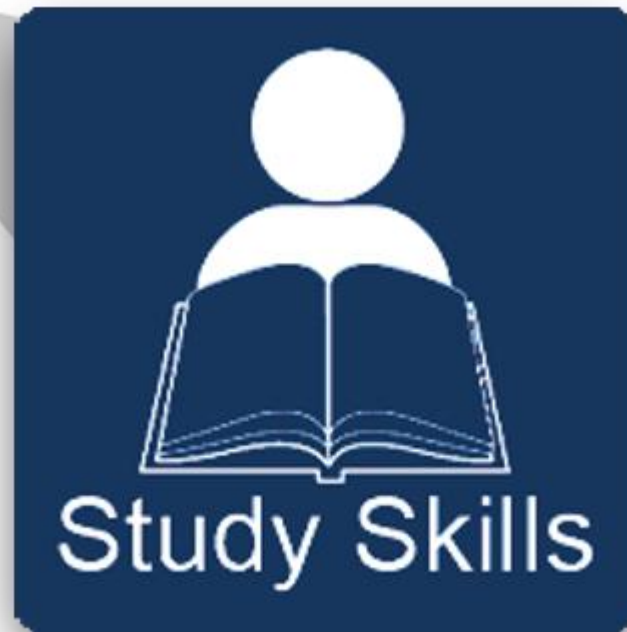


Effective Study Skills



Rossett School
Success for everyone

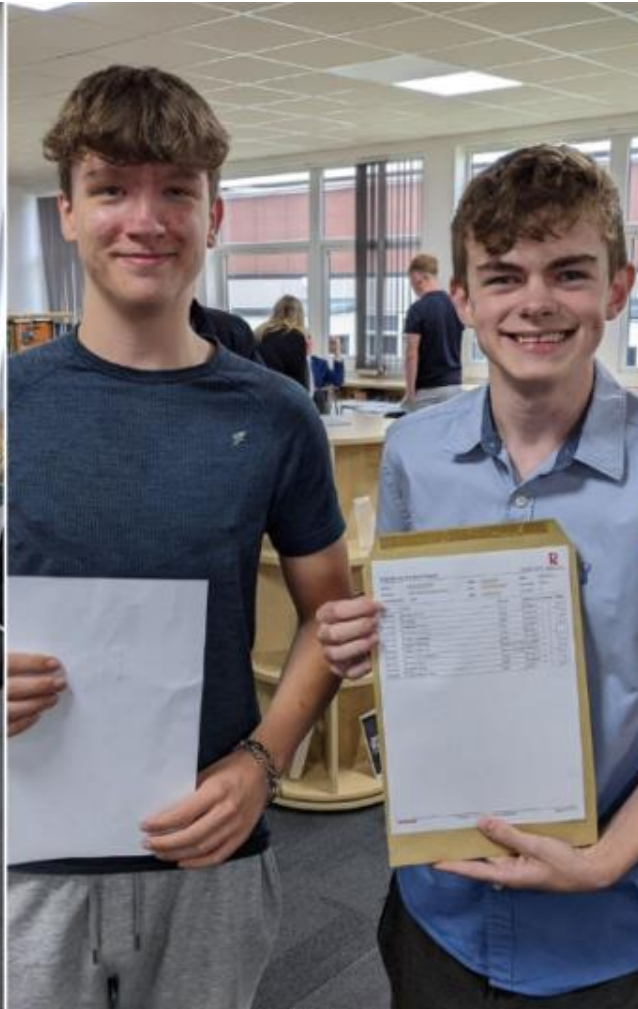
Why?

Effective study skills are
incredibly important for securing
positive outcomes in your exams.



**OWN
YOUR
FUTURE**



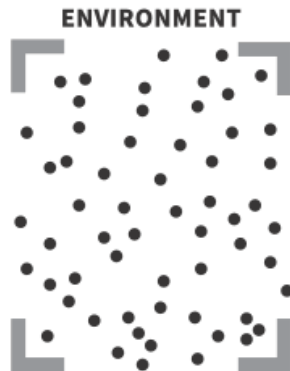
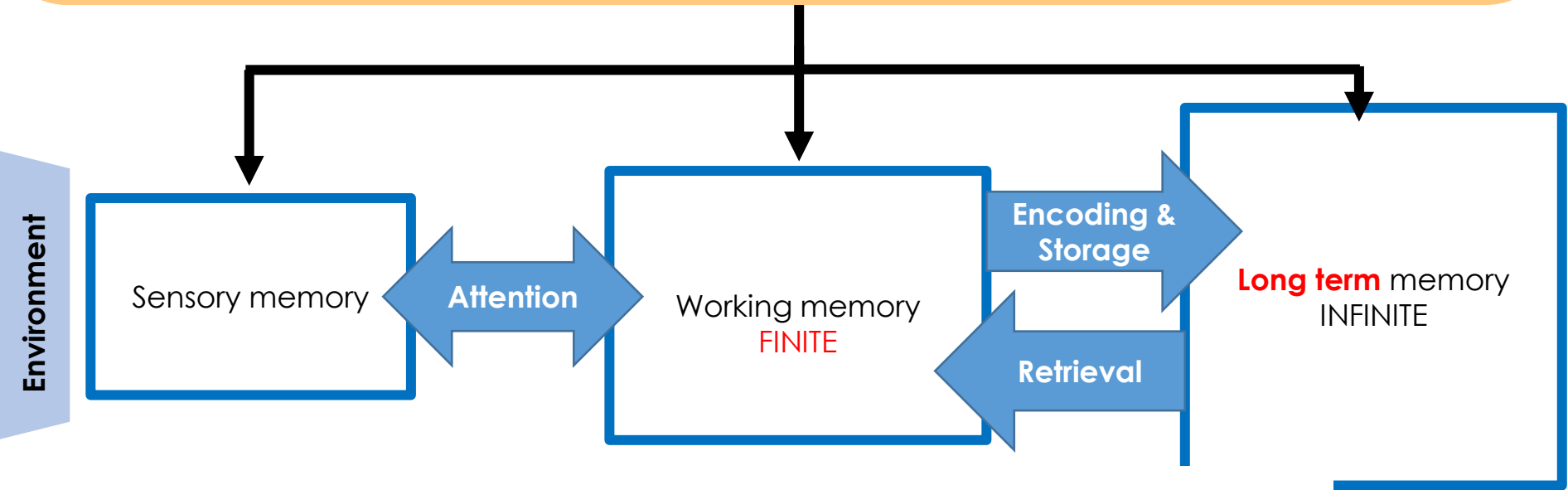


**How good is your
memory?**





How does our memory work?



Rossett Habits of Attention

(S.T.A.R)

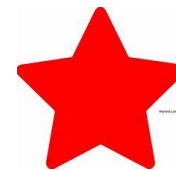
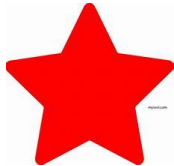
Sit up straight.

Track the speaker. Look at the speaker/board, to show you are listening actively.

Ask and answer questions.

Ask questions by raising your hand and be ready to answer questions if you are called upon.

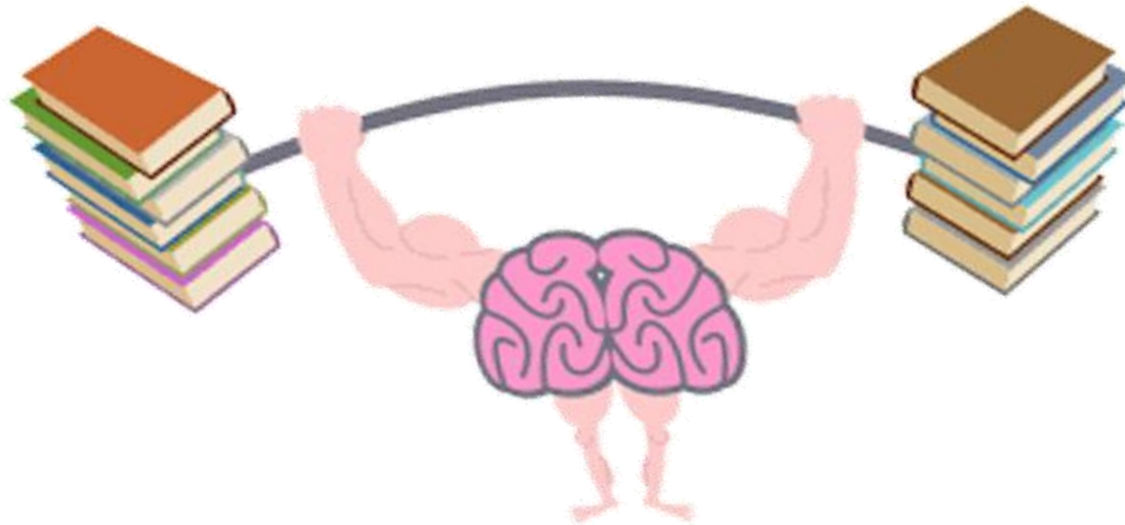
Respect others: no interruptions, calling out or low-level disruption





How do we learn?

So, **what techniques** can you use to **strengthen your memory** in advance of your assessments/tests?





How do we learn?

Let us start with strategies that ALONE do not work

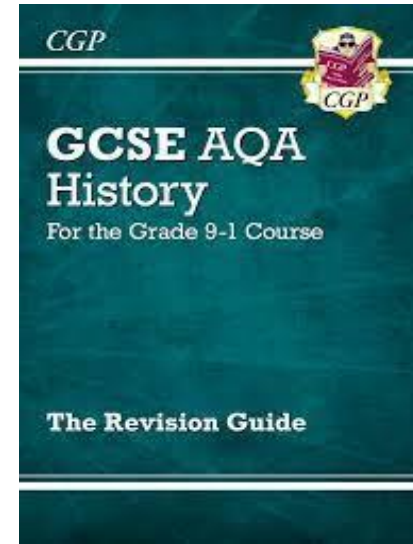
Highlighting



Copying



Reading



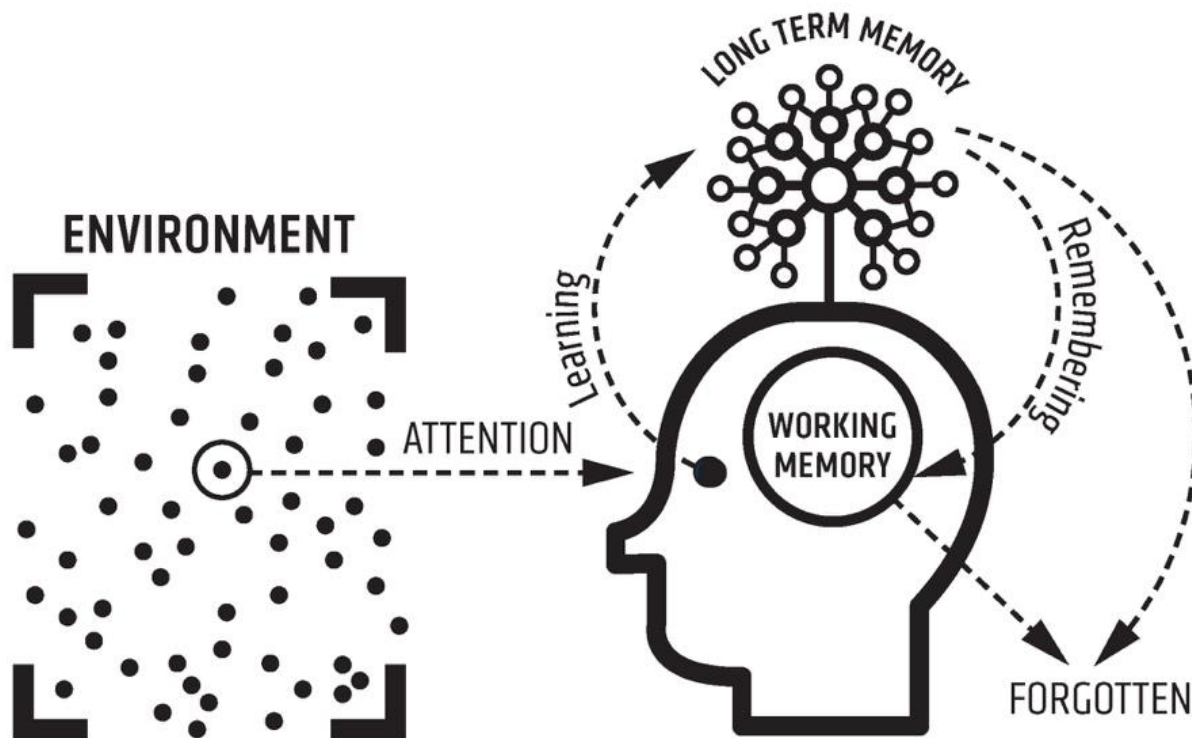
+ Retrieval Practice





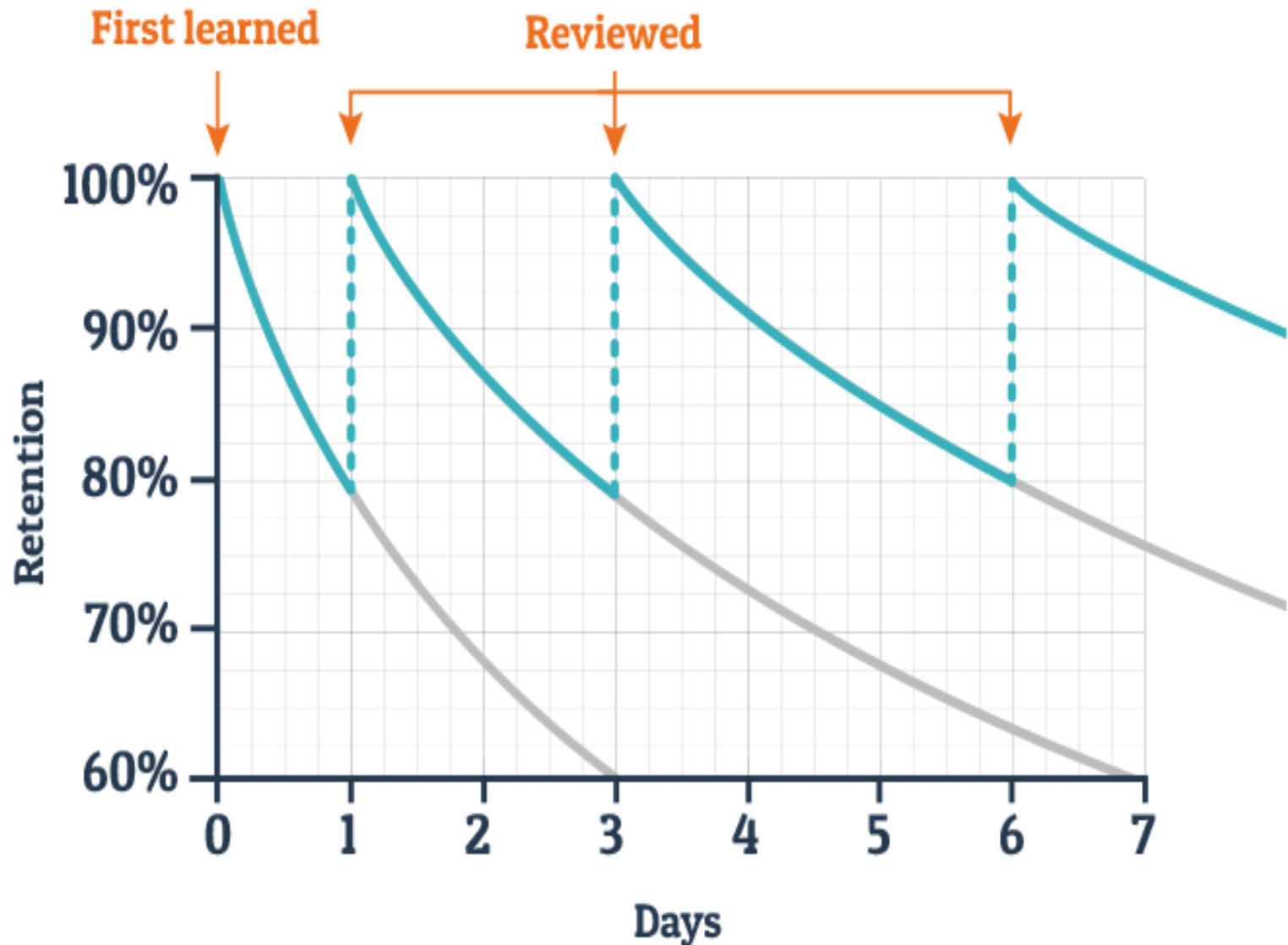
What is **Retrieval Practice**?

The act of bringing information to mind from memory.



If we undertake enough **retrieval practice**, generating the information in our long-term memory, it increases a level of fluency and automaticity.

Typical Forgetting Curve for Newly Learned Information





Retrieval Strategies



Quizzing

Brain Dump

Flash Cards

Core 4

Past Paper/
Practice Questions



Centre Number	Candidate Number
Surname	
Other Names	
Candidate Signature	

For Examiner's Use	
Examiner's Initials	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
TOTAL	

AQA General Certificate of Education
Advanced Level Examination
June 2010

Chemistry **CHEM5**

Unit 5 Energetics, Redox and Inorganic Chemistry
Monday 28 June 2010 9.00 am to 10.45 am

For this paper you must have:

- the Periodic Table/Data Sheet provided as an insert (enclosed)
- a calculator

Time allowed

- 1 hour 45 minutes

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- All working must be shown.
- Do all rough work in the book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 100.
- The Periodic Table/Data Sheet is provided as an insert.
- Your answers to the questions in Section B should be written in continuous prose, where appropriate.
- You will be marked on your ability to:
 - use good English
 - organise information clearly
 - use accurate scientific terminology

Advice

- You are advised to spend about 1 hour 15 minutes on Section A and about 30 minutes on Section B.

1.

Retrieval Practice: Brain Dump



1. **Identify** the **knowledge** you want to cover.
2. **Take a blank piece of paper/white board and write** down everything you can **remember**.
3. **Compare** with what you were trying to **recall**. **What have you missed?**
4. Use a **different colour pen** to correct or add anything you missed.
5. **Repeat**.



1. Retrieval Practice: Flash cards



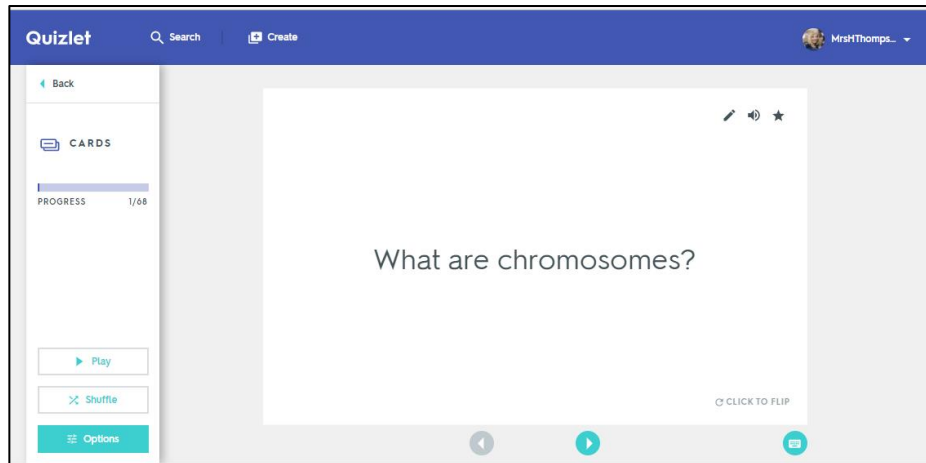
1. Gather information to create the flashcard.



Select the most important information to put on your flash cards.



Write/draw the information or a key question on one side and write the answer on the other side.

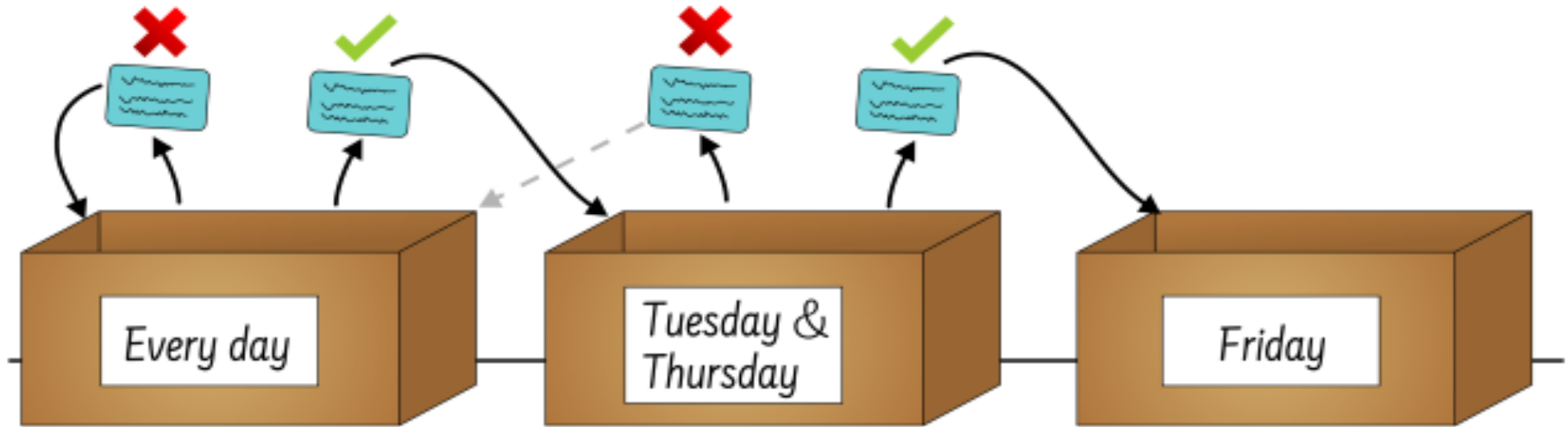


1. Retrieval Practice: Flash cards




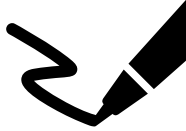

To use flashcards most effectively, the **Leitner System** is a desired strategy for **spaced testing**.

1. **Read the question/key word** on your flash card
2. **Write down or verbalise your answer**
3. **Flip the card**. If you get the question **incorrect** move it to a separate pile that means you need to review it more regularly (star it on Quizlet)



1. Retrieval Practice: Self Quizzing



1. **Read** the section you are trying to **recall** 
2. **Cover** up the section/information so that you **are not** copying.
3. **Write** down what you can **remember** 
4. **Check** your notes. 
5. Use a **different colour pen** to correct or add anything you missed



Each step is important. Do not just copy.

1.

Retrieval Practice: Practice questions

Try to **practice** the **style of questions/task** that you will be assessed on once you feel you have **memorised or learnt** the material. Your teachers will show you where these can be found.

Centre Number	Candidate Number
Surname	
Other Name	
Candidate Signature	

AQA General Certificate of Education
Advanced Level Examination
June 2010

Chemistry **CHEM5**

Unit 5 Energetics, Redox and Inorganic Chemistry
Monday 28 June 2010 9.00 am to 10.45 am

For this paper you must have:

- the Periodic Table/Data Sheet provided as an insert (enclosed)
- a calculator.

Time allowed

- 1 hour 45 minutes

Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- All working must be shown.
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 100.
- The Periodic Table/Data Sheet is provided as an insert.
- Your answers to the questions in **Section B** should be written in continuous prose, where appropriate.
- You will be marked on your ability to:
 - use good English
 - organise information clearly
 - use accurate scientific terminology

Advice

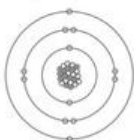
- You are advised to spend about 1 hour 15 minutes on Section A and about 30 minutes on Section B.

CHEM5

GCSE Chemistry - Topic 1: Fundamental ideas (Recap)

Name: _____ Mark: _____ /28

1 (b) The diagram represents a magnesium atom.



Complete the table to show the name of each particle and the charge of each particle in the magnesium atom.

Name of particle	Charge
proton	+1
neutron
.....	-1

(2 marks)

1 (c) Use the Chemistry Data Sheet to help you to answer these questions.

Draw a ring around the correct answer to complete each sentence.

1 (c) (i) In a magnesium atom, the protons and neutrons are in the

core.
nucleus.
shell.

 (1 mark)

1 (c) (ii) The number of protons in a magnesium atom is the

atomic number.
mass number.
group number.

 (1 mark)

1 (c) (iii) The sum of the protons and neutrons in a magnesium atom is the

atomic number.
mass number.
group number.

 (1 mark)

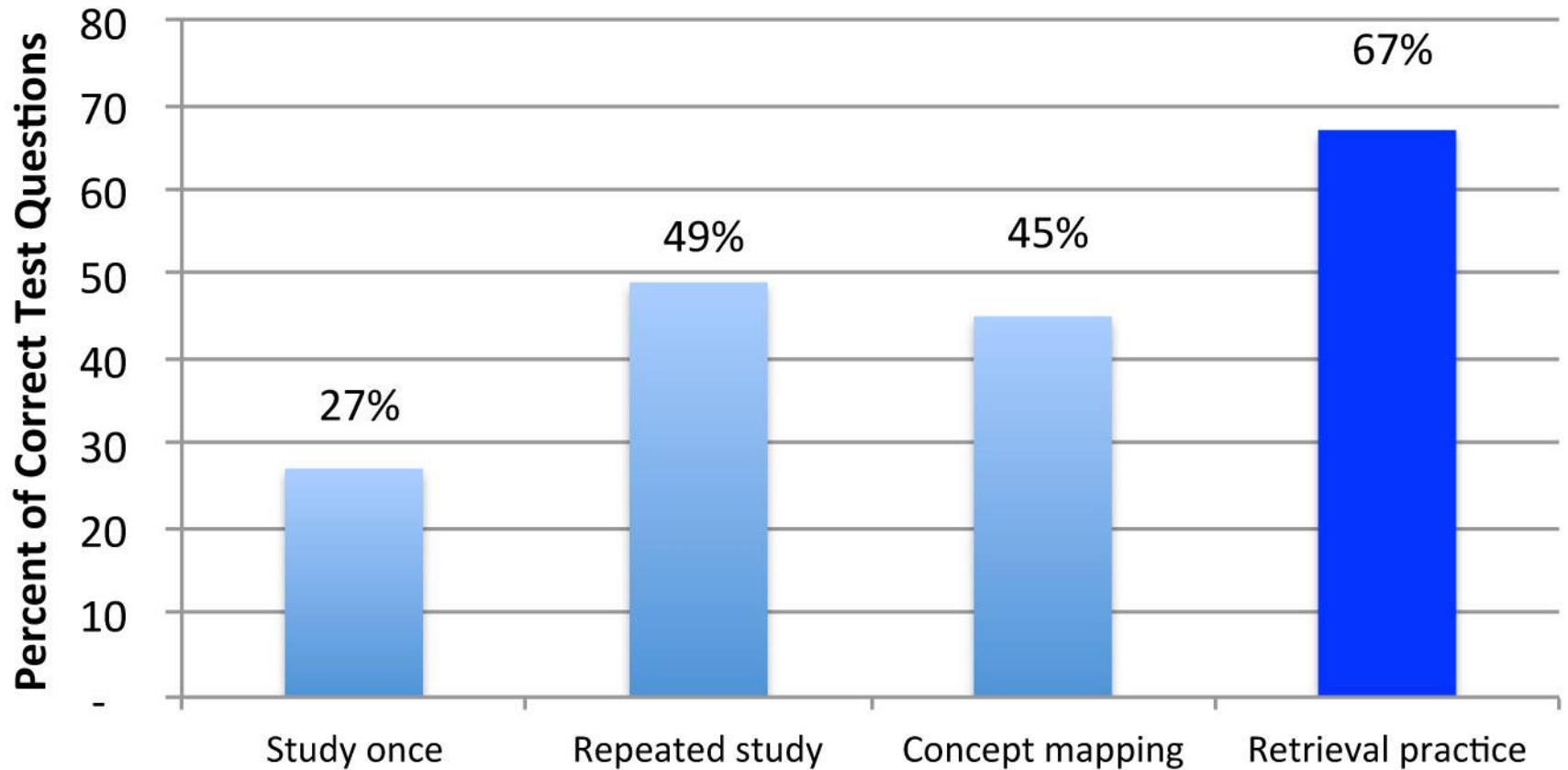


Sparx Maths



Why retrieval practice?

Comparison of Retrieval Practice with Other Common Learning Methods



Karpicke and Blunt, 2011



How long should I spend revising?

POMODORO TECHNIQUE



Select a single task to focus on



Set a timer and work continuously for 25 minutes



Take a productive 5 minute break



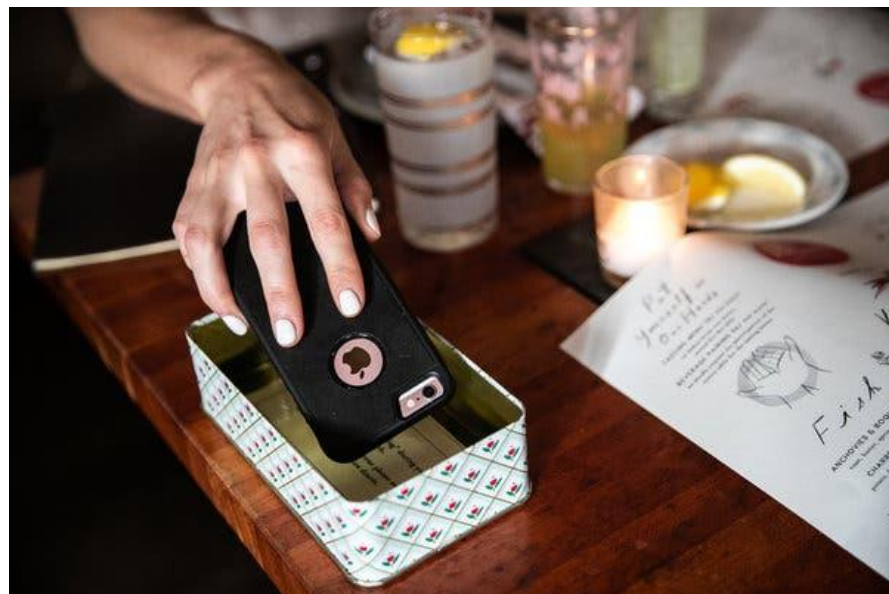
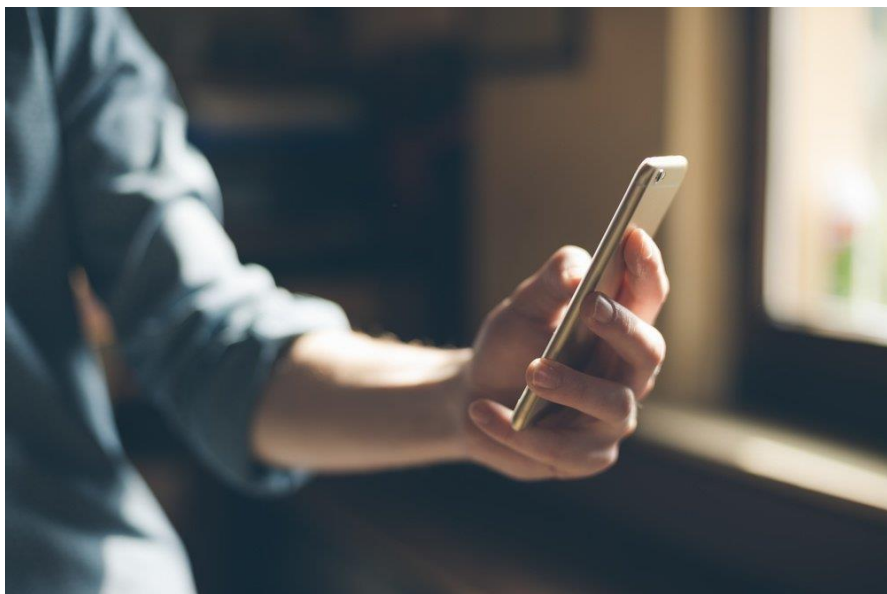
Repeat for 4 rounds



Take a longer break for 30 minutes and repeat



Minimise distractions



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Minimise distractions

Find a quiet, tidy room with minimal distractions – your bedroom, library or classroom.

Put your revision timetable, exam timetable and other documents visible on your wall

Make sure you have a drink and snack with you, staying hydrated and full is important



Put your phone in another room, it is too much of a distraction -

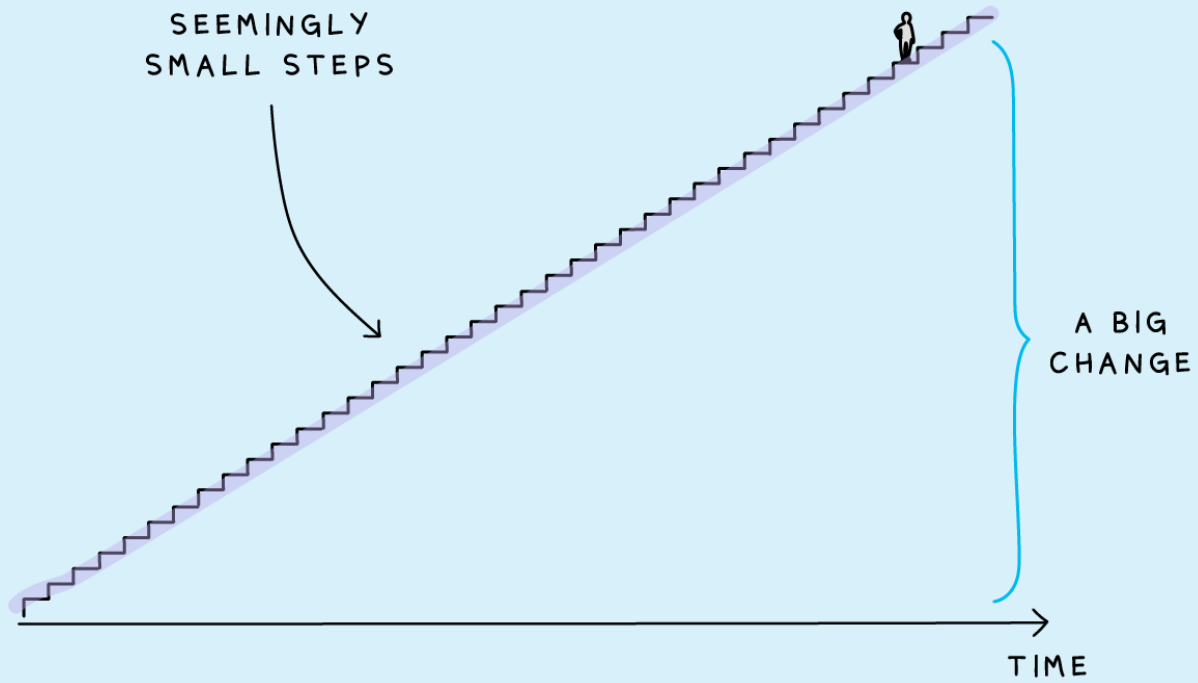
Loud music is a distraction, if you must listen, it needs to be low tempo, without lyrics

Have all your revision materials and stationary on your desk ready to go - make it obvious



What doesn't work

- Simply **writing out notes or copying** from a textbook/exercise book.
- **Cramming revision** to the 'final minute' overloads your working memory so you can't learn at all. It can also cause stress/anxiety before assessments.
- **Re-reading** and doing nothing with the information.
- **Highlighting** information for the sake of it.
- Attempting to revise while **multitasking** and doing other things.
- **Comfort zone revision** of easy material that pupils have already mastered because it makes you 'feel good'.
- Noisy spaces with too much distraction.



LIZ FOSSLIE