

Learning How to Learn

The GCSE Edition



The Camden School for Girls 2025-26

Compiled by Simon Flynn

Y11 Parents Online Session

4.00pm - 5.00pm
Thursday 6th November

Simon Flynn

What we'll cover

- Why this session?
- Some of the science behind effective learning
- Some key learning strategies
- Using AI responsibly
- Creating the right environment
- Questions (if there's time)

Why this session?

- We have the same goal
- How can we work together?
- Communication is key

Where to start

1. How do you study?
2. Why do you study this way?
3. Does it work (and how to you know)?

If their methods *feel* easy...

... they're almost certainly not effective.

- If an athlete or musician wants to make noticeable and continual improvements, how easy are their methods for achieving this likely to be?
- What's the difference if we change 'athlete' or 'musician' to 'learner'?

The problem we're addressing

- Many students work hard but use ineffective methods
- Re-reading notes repeatedly = illusion of learning
- Cramming the night before = short-term memory only
- Highlighting and re-reading feel productive but have minimal impact

Working smarter, not just harder

- More effortful strategies produce much greater long-term learning gains → *the struggle is the strategy*
- Active retrieval and self-testing → *retrieve to achieve*
- Regular, spaced practice → *space it, test it, ace it*
- Building sustainable study habits → *consistency compounds*



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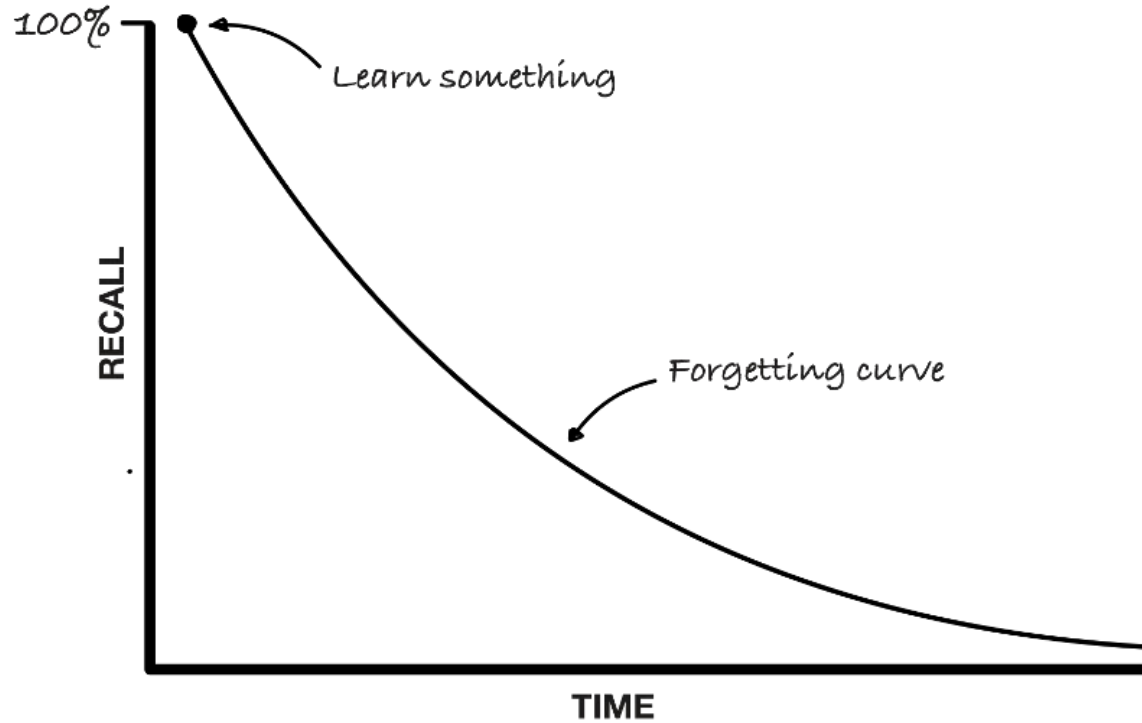
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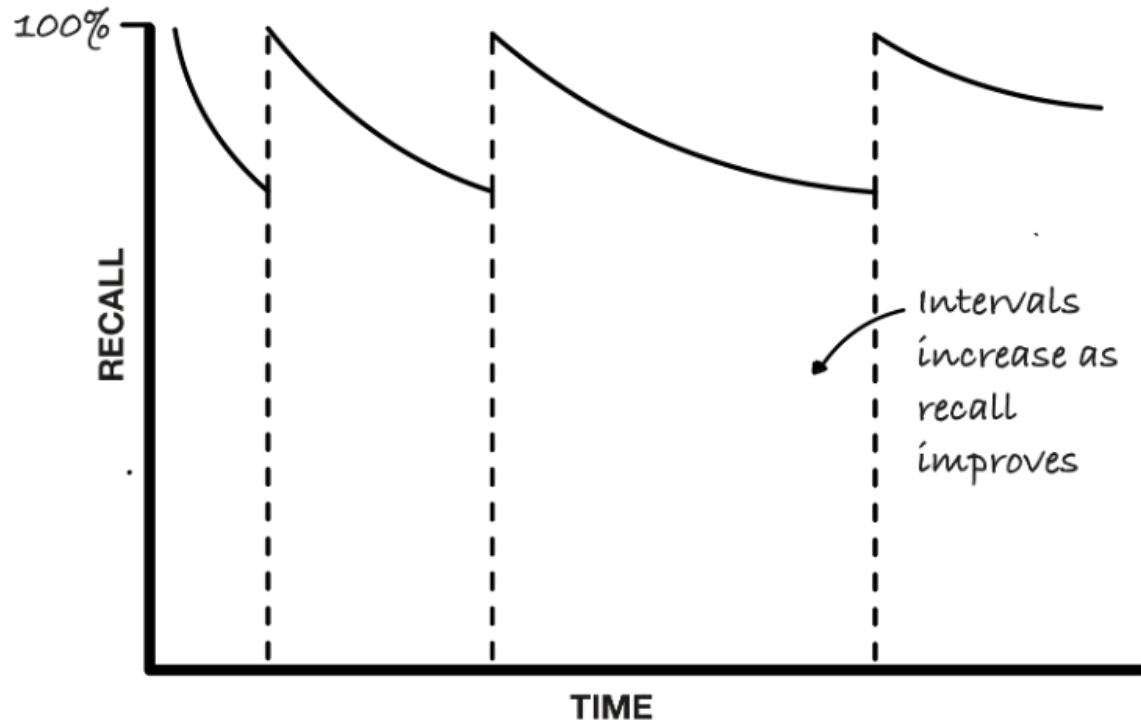
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The Forgetting Curve

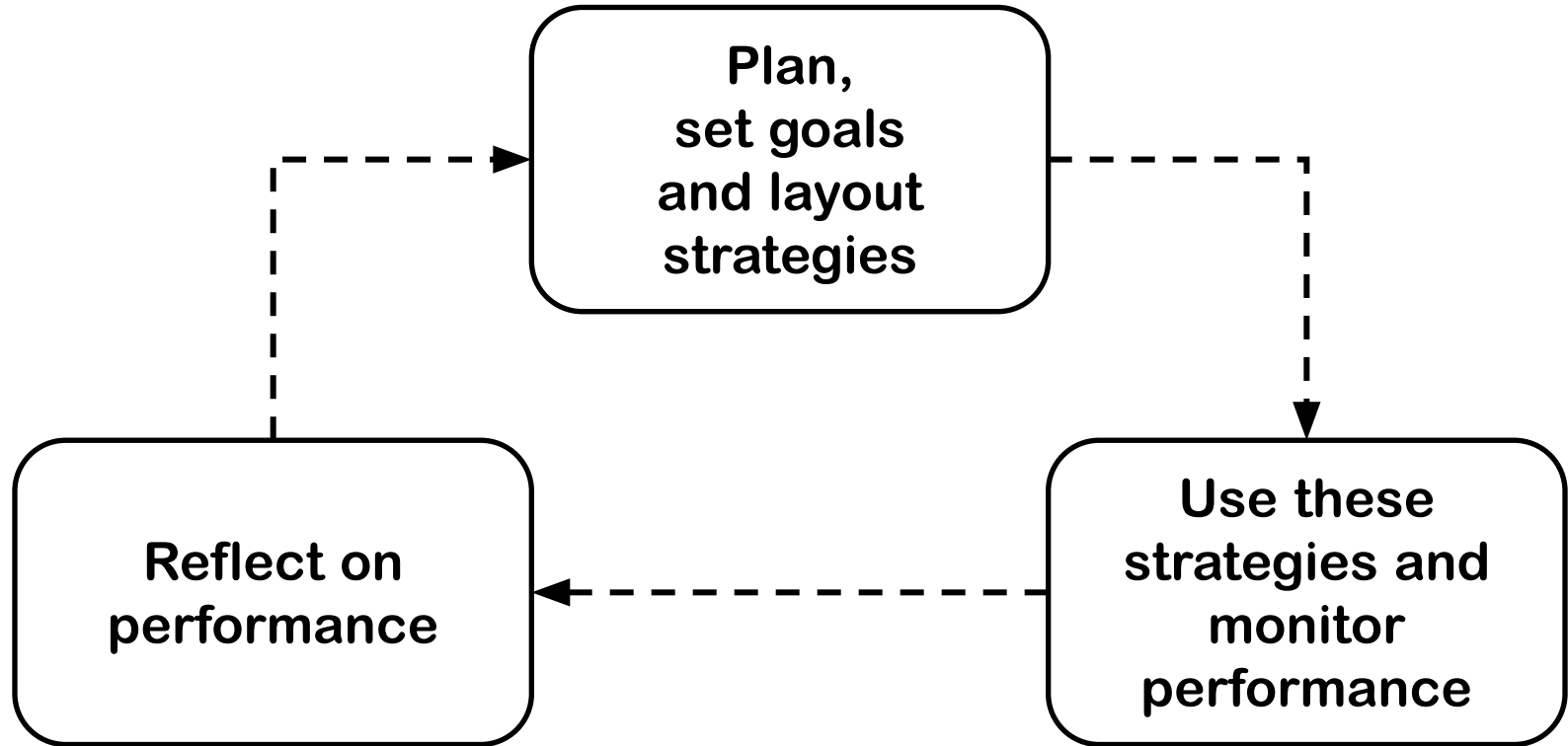


The 1-2-7... Rule



Summary Table of Learning Strategies

Strategy Name	Technique Summary	A Key Advantage	Page
Brain Dumps	Writing everything you know about a topic for 15 minutes, then checking against notes to identify gaps.	Allows you to track learning progress over time by comparing dated attempts on the same topic.	8
Flashcards	Testing yourself with question-and-answer cards, saying responses aloud rather than just thinking them.	Provides immediate feedback on what you know and don't know, enabling targeted revision.	6
Folding Frenzy	A multi-stage revision technique creating increasingly condensed versions of notes through folding and summarising.	Enables spaced processing of information and provides clear visual indicators of learning progress.	12
Generation Effect	Attempting to produce answers, solutions, or explanations yourself before checking sources or being given the information.	Information you generate yourself, even if <i>initially</i> incorrect, creates stronger memory pathways than passively reading the same information.	5
Knowledge Maps	Creating visual representations that connect related ideas and concepts to show relationships between topics.	Reveals connections between concepts that may not be apparent in linear text, improving comprehension.	9
List It	A free recall exercise where you list everything you know about a topic within a set time limit.	Gives clear, immediate feedback on knowledge gaps without the need for external materials.	8
Pomodoro Technique	Working in focused 25-minute sessions followed by short breaks to maintain concentration and prevent burnout.	Maintains high levels of concentration whilst preventing mental fatigue through regular breaks.	16
Read, Recite, Review	Read material, recall main ideas from memory, then check against source to identify gaps.	Combines active retrieval practice with immediate feedback on knowledge gaps.	11
Self-Explaining	Continuously asking yourself 'how' and 'why' questions whilst studying to deepen comprehension.	Forces deeper thinking about material, helping you see connections and differences between ideas.	5
Self-Testing	Deliberately bringing memories to mind to strengthen neural connections and improve long-term retention.	Each retrieval attempt strengthens memory pathways, making future recall easier and more reliable.	5
Teaching Others	Explaining concepts to someone else, which forces you to organise ideas clearly and reveals knowledge gaps.	Compels you to organise information clearly and exposes areas where understanding is incomplete.	5
Using AI to Support Learning	Using AI chatbots to create study plans, explain difficult topics, generate practice questions, and provide feedback while ensuring you still do the learning yourself.	Acts like a 24/7 personal tutor that can explain things in different ways	13
Waterfall Method	A systematic approach to flashcard review where cards are sorted into 'know it' and 'struggled' piles until mastery is achieved.	Ensures difficult material receives more attention whilst reducing time spent on already-mastered content.	7



Brain Dumps

How It Works:

1. Choose a topic
2. Set timer for 15 minutes
3. Write everything you know
4. Don't stop writing – even if repeating yourself
5. Check against notes/textbook
6. Identify and focus on gaps
7. Date and store sheets to track progress over time

Brain Dumps

Why This Works:

- Reveals exactly what they knows and doesn't know
- Provides immediate feedback
- You can see dated attempts showing improvement

Read, Recite, Review

1. **Read** – understand the material first (focus on comprehension)
2. **Recite** – put away materials and write/say what you remember
3. **Review** – check against source, identify gaps

Read, Recite, Review

Why It Works:

- Combines understanding with retrieval practice
- Identifies knowledge gaps immediately
- More effective than reading three times
- Self-testing built into the process

AI as a Learning Companion, Not a Shortcut

- Creating study plans and revision timetables
- Explaining difficult concepts in different ways
- Generating practice questions
- Testing understanding
- Learning exam techniques

Effective AI Prompts

- 'Explain photosynthesis for AQA GCSE Biology – focus on key processes'
- 'Break down quadratic equations using Edexcel GCSE Maths specification requirements'
- 'Generate 5 practice questions on simultaneous equations in their typical style'
- 'Quiz me on the Weimar Republic using Edexcel mark scheme expectations'

If Responses Aren't Helpful

- 'Explain this more simply'
- 'Use an analogy or real-world example'
- 'Give me practice questions instead of just theory'
- 'Frame this in the context of GCSE exam requirements'

The Power of Habits

- The best learners tend to have excellent learning habits.
- Forming new habits is much easier said than done – studies show that 88% of people who set New Year's resolutions fail them within the first two weeks.

Improving study habits

- Know Where and When
- Use Habit Stacking
- Establish a Dedicated Study Space
- Minimise Digital Distractions
- Set Goals and Rewards

Improving study habits

- Establish a Consistent Routine
- Prioritise and Organise Your Tasks
- Manage Your Physical Environment
- Incorporate Movement and Exercise
- Prioritise Your Well-being

In a nutshell...

A simple question that a student can repeatedly ask themselves to help guide their decisions and actions is:

- *What would an effective learner do?*

ParentMail

You will shortly receive a ParentMail communication. This will include:

- A link to a video of today's session
- A link to a PDF of the Y11 *Learning How to Learn* booklet
- A link to a short feedback form

A short Q&A

- Please write any questions you have in the chat box and I'll do my best to answer them.

Thank you!