

Y7 Independent Learning Task

Subject:	Mathematics
ILT #2	Brain Dump
Week set:	
Duration:	Approximately 1 to 1 ½ hours
Hand in:	
Instructions :	Choose a topic from Modules 1–4 and create a Brain Dump. Without looking at your notes or textbook: • Spend 5 minutes writing down everything you can remember. • Include facts, methods, examples, diagrams, formulae and mathematical vocabulary. • When the timer finishes, stop writing. • Check your work against your notes. • Add anything you missed in a different colour. • Reflect on what you remembered well and what you need to revise next. For an extra challenge, repeat the Brain Dump after 24 hours and compare how much more you can remember
Skills:	This task develops students' ability to: • Retrieve information from long-term memory. • Identify strengths and gaps in their knowledge. • Reflect on their own learning. • Develop effective revision habits. • Use retrieval practice as an evidence-informed revision strategy. • Work independently and take responsibility for their own learning. • Build confidence in recalling mathematical knowledge.

Marking schema:	Assessment Area	Developing	Proficient	Advanced
	M athematical Understanding	Recalls some key facts or methods from the chosen topic.	Recalls most key knowledge accurately with only a few gaps.	Demonstrates detailed and accurate recall, including methods, vocabulary, examples and reasoning.
	A ctive Retrieval	Attempts the Brain Dump but does not fully follow the retrieval process.	Completes the Brain Dump correctly, checking against notes and adding missing information in a different colour.	Applies the retrieval strategy thoroughly and demonstrates a clear understanding of why retrieval practice is effective.
	T hinking & Communication	Identifies some strengths or areas for improvement.	Reflects on what was remembered well and identifies clear next steps for revision.	Provides thoughtful reflection, explaining why gaps occurred and how future revision will improve.
	H abits of Independent Learning	Completes the task with some support or limited organisation.	Works independently, follows the mission guidance and completes all core requirements.	Demonstrates excellent independence by managing time effectively, working carefully and taking ownership of learning.
	S tretch & Challenge	Completes the core Brain Dump task.	Completes at least one Level Up Challenge or revisits the task to improve recall.	Goes beyond the mission by completing multiple retrieval attempts, teaching the topic to someone else or using additional retrieval strategies independently.
Additional guidance or help:	Remember: retrieval means trying to remember without looking at your notes first! If you get stuck: • Start by writing key vocabulary. • Draw diagrams or sketches to help you remember. • Write formulae or worked examples. • Don't worry if you can't remember everything—the aim is to identify what you need to practise. Challenge yourself by: • Completing another Brain Dump on a different topic. • Repeating the same Brain Dump after 24 hours. • Teaching the topic to someone else using only your Brain Dump. • Turning your Brain Dump into a one-page revision sheet.			