

MATH CHEAT SHEET

The effective mathematics classroom



Make math relevant

Motivate learners by showing them real world situations that involve math use outside of school classrooms.



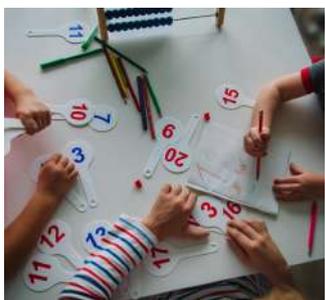
Explain how math works

Reassure learners that it's not all about arithmetic, and get them excited about giving it a go and feeling comfortable trying out different approaches to problem solving, even if it means they don't always get the right answer.



Encourage questioning and make space for curiosity

Explain to students that in order to do well in math, they should not only pay attention in class but also ask for clarification when they need to better understand something.



Teach in a multi-sensory way

Provide verbal explanations, show work on the board, and if possible, use tactile props that students can touch and move around. Multi-sensory input can aid learning by making it easier for students to engage with a lesson and can also reinforce material in memory.



Drill vocabulary in advance

For some students, especially those who struggle with literacy, having the opportunity to practice reading and spelling math vocabulary and definitions, makes it easier to follow a lesson, read a textbook or understand what a problem is asking in homework or on quizzes.

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Allow access to accommodations

If a student has been diagnosed with a learning difficulty like dyscalculia, dyslexia or dysgraphia, you may consider allowing them to use a calculator to do basic arithmetic or a computer to type up and submit work. Typing on a computer is often easier for children who struggle with the mechanics of writing by hand.



Projecting a positive attitude

Projecting a positive attitude about mathematics and about your students' ability to "do" mathematics, constantly builds student's self-esteem and instills in them a belief that not only is the goal of "doing mathematics" attainable, but that they are personally capable of reaching that goal. Mathematics is not presented as something magical or mysterious.



Give students more time

The need for processing time in math can vary between students, but children with learning difficulties often benefit from having more time to understand a concept and see how it works. It also helps to break work down into small steps and give each learner the time they need to process the line they are on before moving to the next one. Extending time limits can help with reducing math anxiety too.



Assign note-taking buddies

Sometimes writing down information and processing it at the same time can be overwhelming for students. It might also be that copying from the board can cause numbers to be transposed or recorded in a way that the work no longer makes sense. It may help to allow a child to take notes using a computer, or to pair them up with a note-taking buddy.



Using multiple representations to communicate mathematical ideas

Allow your students to use a variety of representations to communicate their mathematical ideas. Including drawing a picture, writing in a journal, or engaging in meaningful whole-class discussions.



Contact Us Today

WE OFFER AN EFFECTIVE, NON-MEDICAL, AND NON-PHARMACEUTICAL PROGRAM TO HELP INDIVIDUALS

- Be more focused on everyday activities
- Improve academic performance
- Increase the occurrence of positive behaviour
- Strengthen cognitive and executive functioning skills (memory, attention, brain processing speed, impulse control)
- Improve emotional control and mindfulness
- Improve active listening skills

Our goal is to change the lives of children who struggle with academic, social, attention, memory, and behaviour challenges; to name but a few.



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