

Welcome to the Pennyhill Maths Superhero Academy!



The True Power of a Maths Hero

Real heroes aren't just fast—they understand things deeply. To master maths, you will train to be **confident, curious, and resilient**. A true **Pennyhill hero** never gives up when a puzzle gets tricky!



Your Superhero Utility Belt

Every hero needs the right tools to solve tricky problems. In your daily missions, you will use three special gadgets to unlock the secrets of mathematics and expose how it works.



Gadget 1: Touching the Maths

We build the problem with our **hands**. By using **cubes**, **counters**, and **place value value charts**, we can actually **touch the maths** and build our **confidence!**



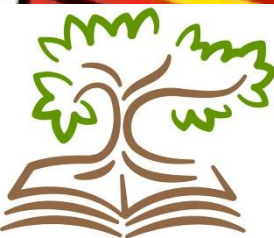
Gadget 2: Drawing the Mission

We use our artistic powers to **draw diagrams** and **pictures**. This lets us see exactly how the maths works and helps us **spot hidden clues**.



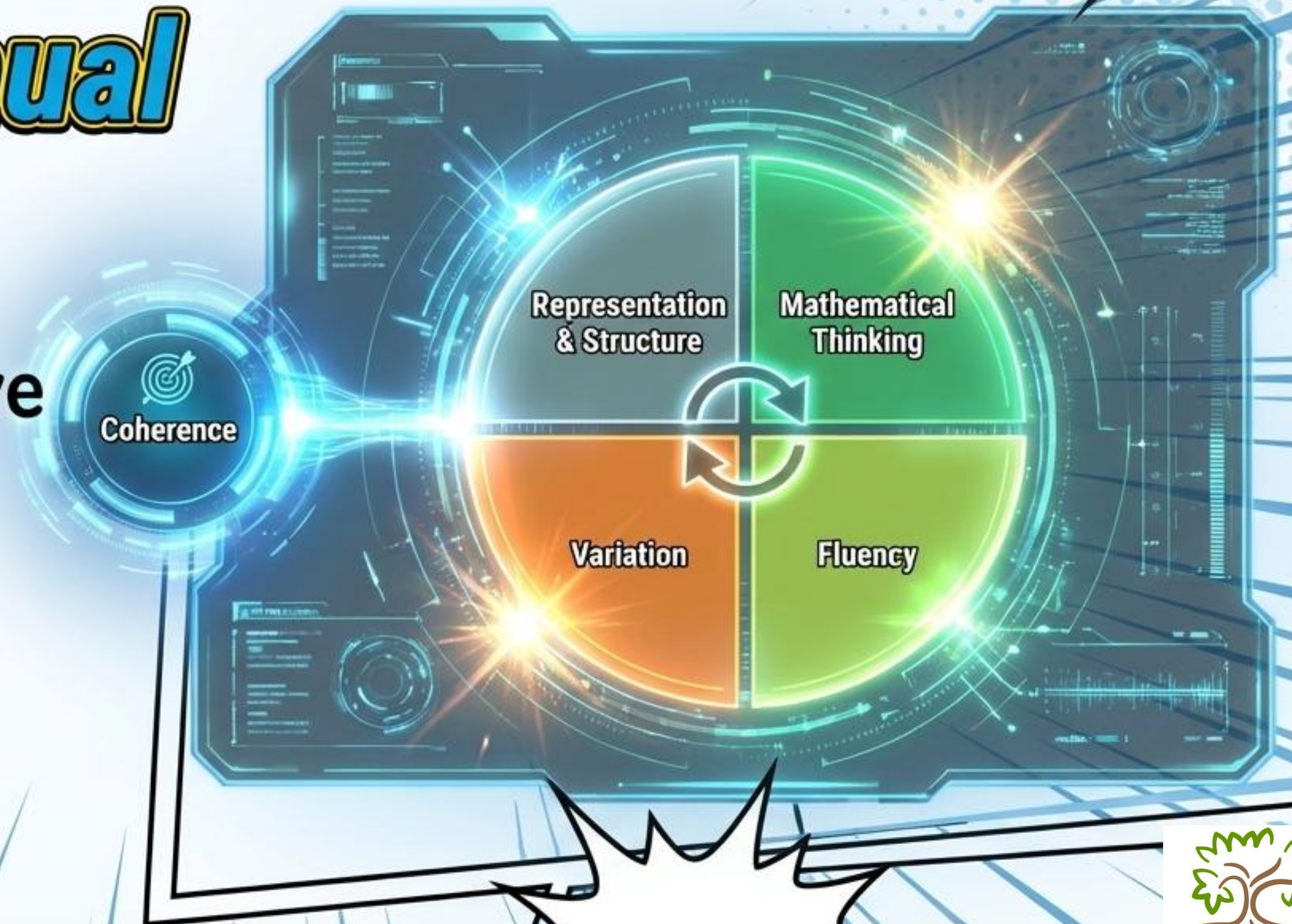
Gadget 3: Secret Hero Symbols

Once we fully understand the mission, we use **special symbols** to write out our fantastic **solutions**. We use **numbers** to share our answers with the world!



The Top-Secret Training Manual

To master our powers, we follow five special rules from the Academy's training manual.



Rule 1: Take Small Steps

We don't try to **leap** over tall buildings in one bound! We break our learning into **small, safe steps** so nobody gets left behind and everyone **succeeds together.**



Rule 2: See the Hidden Patterns

We use our **X-ray vision** to look closely at problems. We spot the **hidden connections** and use our voices to communicate our brilliant ideas with the class.



The diagram illustrates the hidden connection between two equations. The top equation is $2 + 3 = 5$ and the bottom equation is $5 + 3 = 8$. The number 5 in the top equation is connected to the number 5 in the bottom equation by a vertical double-headed arrow. The number 3 in the top equation is connected to the number 3 in the bottom equation by a vertical double-headed arrow. Additionally, there are diagonal lines connecting the 2 in the top equation to the 8 in the bottom equation, and the 5 in the top equation to the 5 in the bottom equation. The entire scene is set against a background of glowing blue and yellow light rays and sparkles.

$$2 + 3 = 5$$
$$5 + 3 = 8$$



Rule 3: Flex Your Brain Muscles

We think **really hard** to build **chains of reasoning**. We don't just find the answer; we use **full** sentences and correct vocabulary to explain exactly why and how we know it is true!



Rule 4: Shapeshift Your Thinking

If one gadget or method doesn't work, we don't panic. We are **flexible!** We **shapeshift our thinking** and **try a brand-new way** to solve the puzzle.



Rule 5: Train Your Lightning Reflexes

We practise key number facts until they pop into our heads instantly. This frees up our brain power for even bigger, tougher mathematical missions!



Every Hero Needs Trusty Sidekicks

Your training doesn't stop at school. You have amazing friends waiting at home to help you practise and grow stronger. Parents and carers, this is where you join the team!



Meet the Gadget Squad

Nunito: Practising little and often makes you unstoppable!

Numbots: Robot-powered addition and subtraction fluency!



Times Tables Rock Stars: Rock out with lightning-fast multiplication!



DoodleMaths: Your own personalised training programme to build your strengths!



Put On Your Invisible Cape

You have the tools. You have the training. Now, look for maths everywhere you go—shopping, cooking, telling the time. The world needs your maths powers. You are ready to succeed!

