



Characteristics of More Able Learner in Mathematics

More able learners in mathematics may display a selection of the following characteristics:

- Rapid and sound memorisation of mathematical material
- They have excellent recall of facts and mathematical fluency
- Can communicate results clearly
- Can reason and explain mathematical concepts and procedures and use them to solve a variety of problems
- Learn and understand mathematical ideas quickly



- Reason logically: can verify, justify, and prove
- Work systematically and accurately
- More analytical
- Recognise patterns easily and see the formal structure of a problem in a way that leads to ideas for action
- Use mathematical symbols accurately and confidently as part of the thinking process
- Make jumps in reasoning
- Think flexibly, adapting problem-solving approaches
- Demonstrate curiosity and enthusiasm for mathematical problems
- Make connections between the concepts they have learned
- Can take a creative approach to solving mathematical problems
- Reverse their direction of thought – may work backwards and forwards when solving a problem
- Communicate their reasoning and justify their methods
- Sustain their concentration throughout longer tasks and persist in seeking solutions
- Enjoy working at increased depth
- Adept at posing their own questions and pursuing lines of enquiry
- Take delight in numbers and use them in other areas of the curriculum, e.g. storytelling
- Enjoy mathematical puzzles and problems
- Can independently explore and investigate mathematical problems
- Work systematically and accurately
- Demonstrate curiosity and enthusiasm for mathematical problems
- Can examine arguments and provide counter-arguments with some proof