

LEARNER PROFILE OF A MATHEMATICIAN



REFLECTIVE AND IMAGINATIVE THINKER



Mathematics is a creative subject. When children are given problems to solve or investigations to follow, they can use their existing knowledge to find a variety of ways to reach a conclusion. Creative mathematicians will try a variety of approaches but will identify the one that is most effective and most efficient. Children will be encouraged to think around a problem and reflect on their solution.

MOTIVATED TO LEARN AND RESILIENT WHEN CHALLENGED



A 'can do' not 'can't do' approach is developed - having the confidence to "have a go" shows that a learner has begun to develop resilience. Resilient learners understand that working at mathematics sometimes means making mistakes and getting stuck, Perseverance demands that you keep going but you also recruit support and try alternative approaches, you search for connections and apply what you do know in the hope of finding out more.

LITERATE, NUMERATE AND DIGITAL



As citizens, consumers, in the context of managing our own finances, we need to be numerate. We will develop Numeracy as the ability to use numbers and solve problems in real life. We will develop confidence and skills to use numbers and mathematical approaches within every day contexts. Numeracy is seen to be as important as literacy.

A COMMUNICATOR AND COLLABORATOR



RESEPECTFUL AND CARING



Children will develop interpersonal skills when working together to 'talk Mathematics', solve problems and find solutions. They will learn to respect the views of others and understand that each individual learns at a different rate.

A KNOWLEDGE SEEKER AND KEEPER



Children will become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately. They will develop factual, conceptual and procedural knowledge that can be used to apply their mathematical thinking to everyday life and also to exploring and enjoying Maths for Maths sake.

CURIOUS ABOUT THE WORLD AROUND THEM



Children will be encouraged to develop a sense of curiosity about Maths. The desire to explore mathematical ideas through posing interesting problems after one has 'finished' a problem will be promoted. Classrooms will provide a climate where conjecture, risk taking and the asking of questions is celebrated.