Our Guiding Stars Curriculum
Science: The Leading Light Subject for 'Perseverance'

- We try things out to test a hypothesis.
- We draw and conclusions based on repeated experiment.
- We know that there isn't always a final answer.
- We take a trial and error approach using the skills and knowledge we have. We consider the best place to start and where we need to end up.
- We keep trying if things don't appear quite right.
- We explore how famous scientists paved the way for discovery, built on ideas of the past and embraced new technology.
- We learn how discoveries and solutions are born out of perseverance and have a desire to make our own discoveries.

EYFS	We use our observational skills and perseverance to notice changes in the world around us (e.g. seasons, exploring ice) and the natural materials associated with these changes. We will learn how animals persevere in their environments.
Year 1	We will use our perseverance to observe our surroundings throughout the school year to develop our understanding of seasonal change. We will use perseverance to identify and classify different plants (evergreen and deciduous); animal groups including their diet. We will investigate an enquiry using our perseverance to test various properties of materials.
Year 2	We will learn how animals persevere within their habitat, including diet and food chain. We will investigate which materials persevere under different stresses, including stretching, twisting, squashing and burning and think about materials' suitability for different jobs. We will investigate the conditions plants need to persevere and thrive in their environment to be successful.
Year 3	We will use our knowledge of electrical components to persevere to create a successful complete circuit, making changes where necessary. We will use our perseverance to measure temperatures when looking at materials changing state over a period of time and use effective methods of recording.
Year 4	When conducting an enquiry into the best soil to grow crops based on soil permeability, we identify where results don't seem valid and persevere to adapt our enquiry. We draw conclusions from a repeated experiment looking at how sound travels through different materials using technology.
Year 5	We study how different species of animals persevere through their life cycles, including making comparisons. We will study how humans have persevered to develop their understanding of space, including early humans, Ptolemy, Copernicus and Galileo and how other important scientific figures, including Katherine Johnson and other Hidden Figures, needed to persevere to have her work recognised and have an understanding of the Moon.
Year 6	We will study specific scientists and how they persevered in developing their discoveries and attaining recognition for their work, including how Carl Linnaeus created a solution for classifying organisms; Mary Anning's discovery of fossils and Charles Darwin's theory of evolution. We will use our scientific skills that we have developed to create our own enquiries to persevere independently to investigate different forces and their effects on different objects, taking repeated readings, making alterations where necessary and record and present data in various ways.