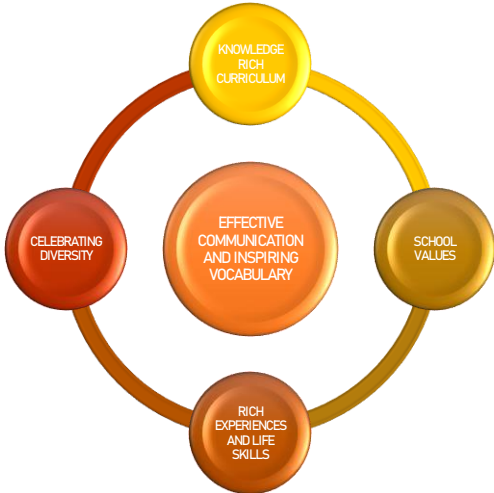


Intent: At Asmall we want children to develop a sense of excitement, curiosity and fascination about the scientific world around them and give them the skills and opportunities to investigate and explore this.

SCIENCE 	Effective Communication and Inspiring Vocabulary We recognise that oracy is a powerful tool for learning and teach our children to become effective speakers and listeners to empower them to better understand themselves, each other and the world around them. Through encouraging scientific discussions in every lesson, we can teach the children how to describe, ask questions, express hypotheses, answer questions, express observations and presenting ideas and knowledge. We teach subject-specific vocabulary for children to learn and apply during our lessons, so that they can express themselves as scientists. Subject specific vocabulary is referred to throughout lessons. Children are given opportunities coherently articulate knowledge, skills and understanding by using explicit subject specific vocabulary in appropriate situations. They should also be familiar with, and use, technical terminology accurately and precisely - build up an extended specialist vocabulary. Reading is a fundamental aspect of science to access information.	Knowledge Rich Curriculum Through ‘WOW’ moments, hands on experiences, learning in context and weekly teaching, we encourage our children to understand the work through a scientific lens. In so doing, we help develop their sense of excitement, curiosity and critical thinking. The Science curriculum lays the foundations that allow our pupils to reach the highest of aspirations, equipped with the knowledge and understanding to do so. Our curriculum is well thought out, progressive and sequenced to enable our children to thrive as scientists. The power this essential knowledge of biology, chemistry and physics will unlock so many avenues for the children academically and in real life situations. The children will need to apply their cross curricular knowledge to science in order to succeed and draw upon their mathematical skills too. STEM subjects are celebrated at Asmall. Pupils will be taught essential aspects of the knowledge, methods, processes and uses of science.
School Values Our values of Resilience, Positivity, Caring, Kind, Happy, Respectful and Confident underpin our approach to all our curriculum areas. Our Values are referred to throughout assemblies and in lessons to ensure pupils are developing an understanding of how these help them to be effective learners. The value of Resilience is a key skill in Science and underpins all of the science lessons. The children must ask questions, hypothesise and test their thinking, sometimes resulting in unexpected outcomes meaning they will need to evaluate their own knowledge and understanding. They will need to repeat experiments and persevere in a positive way when things do not go to plan. Working collaboratively in science is a major aspect of the science lessons and the children will need to care, look out for and respect their peers when doing so. Through having the skills to access the science curriculum fully, the children will become confident scientists.	Celebrating Diversity We recognise that female and disabled individuals, as well as individuals from BAME backgrounds, are under-represented in STEM education, training and employment and we strive to raise the profile of this in the science topics covered and around school. We have displays, teaching the children about the diverse people in science, from the past and modern day, and how they have impacted the STEM world. Our annual Science Week includes scientists from all different backgrounds for the children to learn about. Our science lessons in different topics will include learning about a diverse mix of scientists – leaders in their field. Our Spring term topic of ‘Inspire Me’ contains the study of a range of STEM figures, age appropriate. Our social impact assemblies and whole school events allow us to discuss relevant and important topics including LGBTQ+, Gender Equality. Children are given opportunities to learn about and recognise similarities and differences in biology.	Rich Experiences and Life skills Our broad curriculum allows children opportunities to become independent and responsible members of society. Our pupils experience science regularly to provide the foundations for understanding the world. Our Science Ambassadors throughout school raise the profile of science and are given the opportunity to use ‘pupil voice’ to influence and shape the science curriculum so that it is meaningful for our children and all stakeholders. Getting out and experiencing science in the world first hand is considered and utilised for all topics. The children are given lots of opportunities to speak to people in STEM careers to develop their own sense of ambition. Keeping abreast of the news daily across school, enables the children to keep their finger on current scientific advancements and the most up to date news. Taking part in science weeks and STEM days allows the children to develop their life skills as well as garnering rich experiences.