

Science

Intention- What we want to achieve and why we do what we do

At Rachel Madocks School, all students across the school have access to scientific experiences that meet the learning the needs of the individual. Science at Rachel Madocks gives all student's the opportunity to think and learn. We promote scientific enquiry and exploration to develop their interest and curiosity in a multisensory approach about the world around them, their senses and body awareness. We understand the importance of appreciating how science has changed the lives of all of us, and we offer a wide range of opportunities for students to explore and learn science in fun and creative ways.

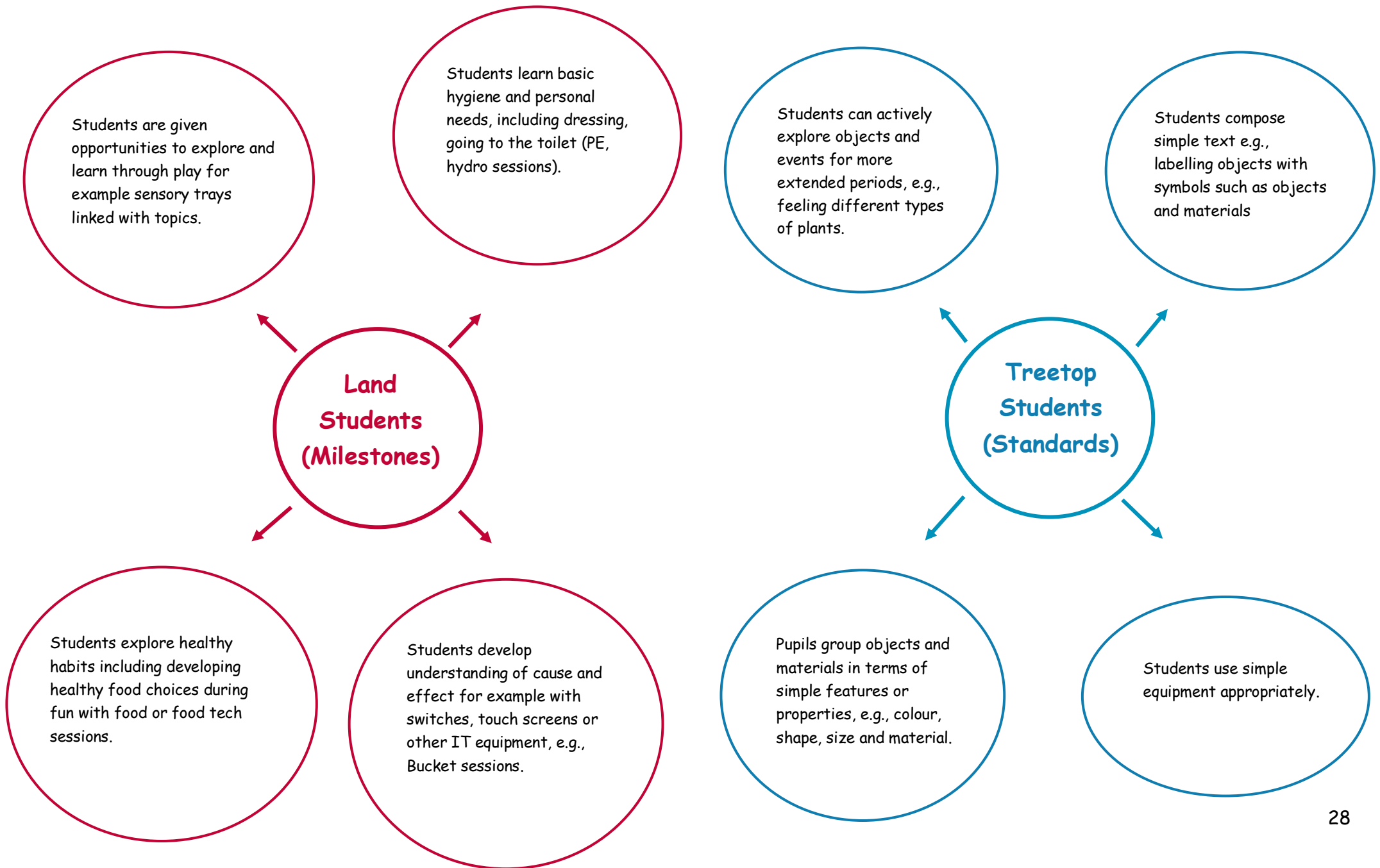
Implementation - How do we achieve this through our learning and curriculum and how we do it

Science is taught across the school within all Key Stages and departments, but this is not always subject specific. We use science as a "vehicle" to teach cross curricular subjects and individual targets. For many of our students who are working at the very early stages of development, science will focus on developing an understanding of cause and effect or sensory exploration activities. Our student's natural curiosity is encouraged, as they explore and experience the world through play. For some of our students who are working in the treetop pathways, science is taught weekly as a subject. We support students to question what they see and to begin to explain their scientific ideas. For our students working in Post 16 classes, science provides students the opportunities to develop independence skills and investigate the world around them in preparation for adulthood. Students are exposed to science through food tech sessions, mini enterprise and horticulture.

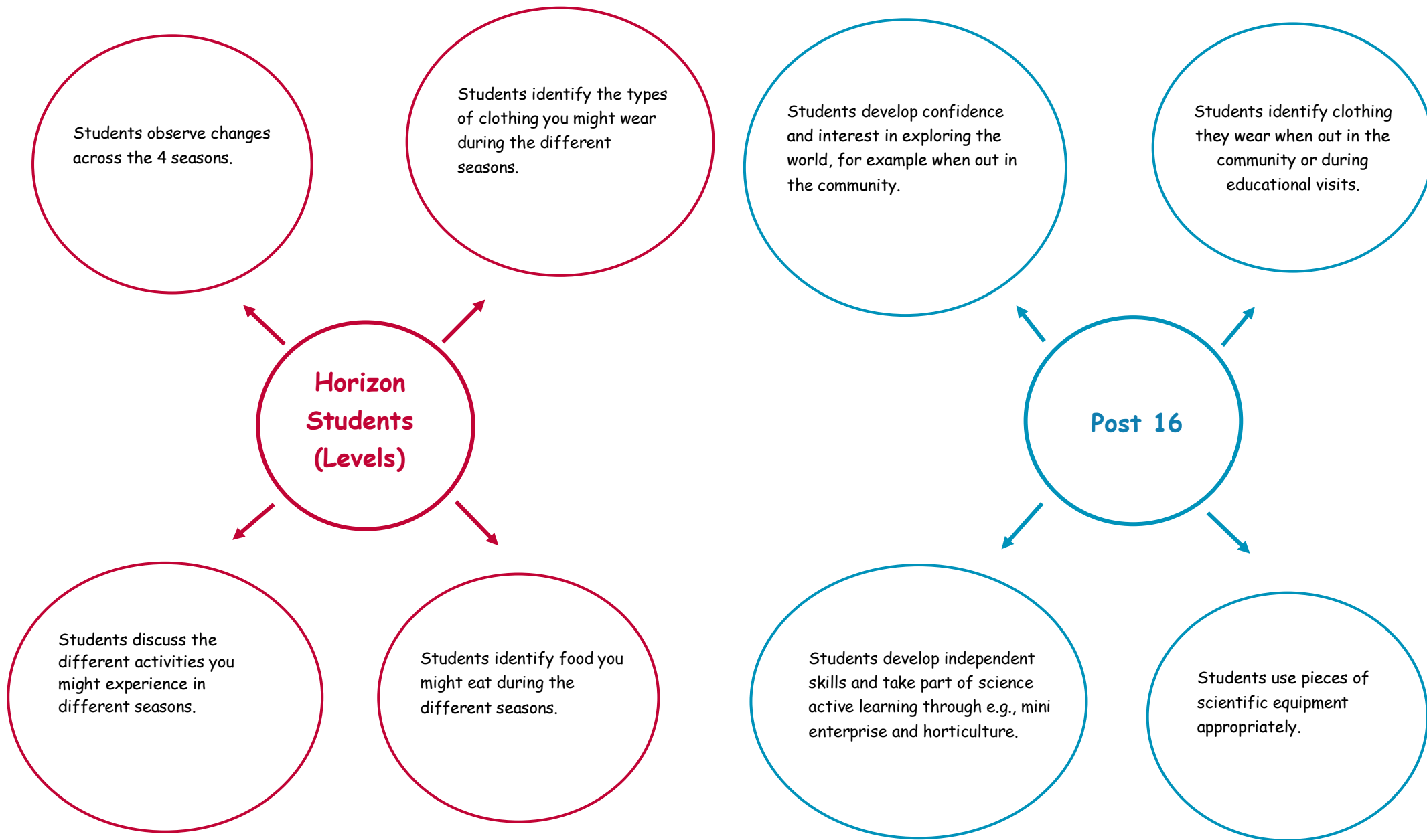
Impact - What can we achieve through this and what is the end result

Science in our school can be described as the exploration and investigation of the world around us. We provide opportunities for students to have an experience of science through activities ranging from sensory investigation to observations and recording the changes in the natural world. We also encompass student's communication skills and choice making promoting opportunities to ask simple questions. We recognise the importance of allowing pupils to build upon their own experiences and generalise skills developed in all areas of the school. We encourage our students to use simple equipment and tools adapting the sessions and activities to their individual needs. Science can be seen as a way to support our students with their basic hygiene and personal needs; including dressing, going to the toilet and understanding the importance of healthy food choices through our PE and food tech sessions. At the school, we celebrate the accomplishments of our students and support them to build their confidence, which helps them grow in all areas of their learning.

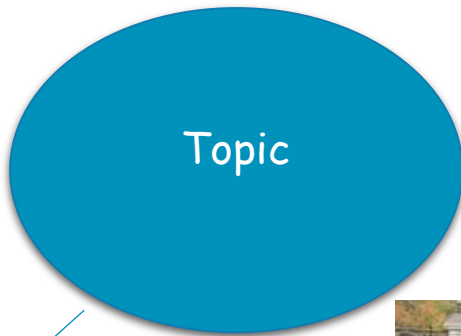
Science Curriculum



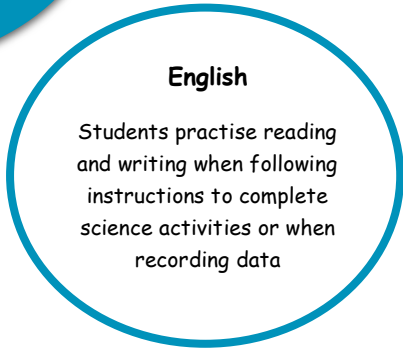
Science Curriculum



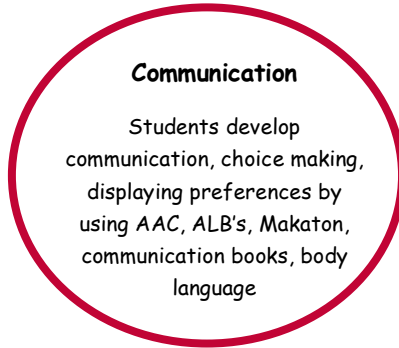
How Science Links to Other Areas



Using science sessions as a "vehicle" to teach cross curricular subjects and individual targets.



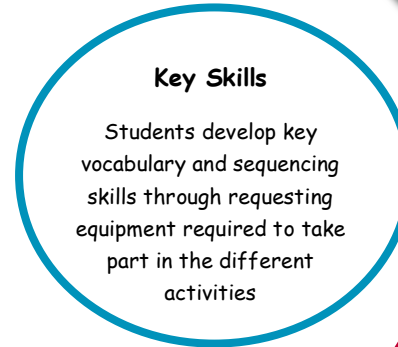
English
Students practise reading and writing when following instructions to complete science activities or when recording data



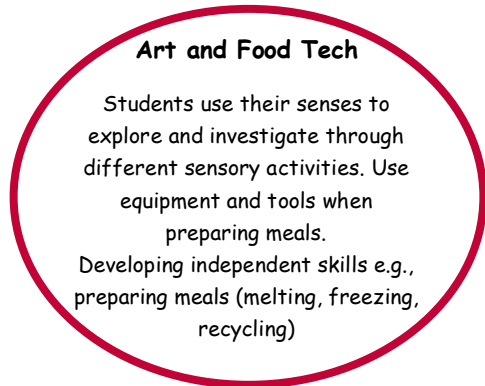
Communication
Students develop communication, choice making, displaying preferences by using AAC, ALB's, Makaton, communication books, body language



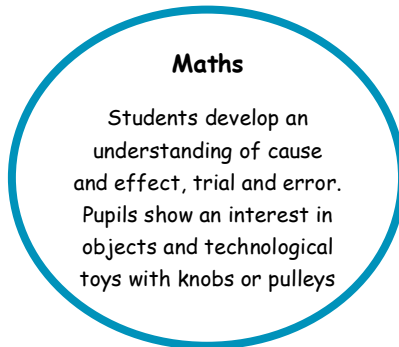
Students have access to science through our theme days in a variety of ways. For example, pupils take part in food tech sessions where they explore the change of state of food. Pupils use simple tools when taking part in the activities.



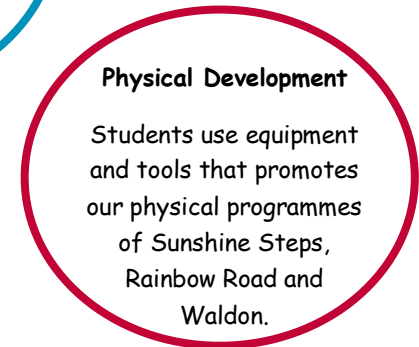
Key Skills
Students develop key vocabulary and sequencing skills through requesting equipment required to take part in the different activities



Art and Food Tech
Students use their senses to explore and investigate through different sensory activities. Use equipment and tools when preparing meals.
Developing independent skills e.g., preparing meals (melting, freezing, recycling)



Maths
Students develop an understanding of cause and effect, trial and error. Pupils show an interest in objects and technological toys with knobs or pulleys



Physical Development
Students use equipment and tools that promotes our physical programmes of Sunshine Steps, Rainbow Road and Waldon.