Science

Intent	Implement	Impact	
Higher Walton's Science	Higher Walton's Science	Pupils should leave school	
curriculum fosters excitement	Curriculum uses Kapow Primary's	equipped with the requisite skills	
and curiosity about natural	Scheme of work, which is	and knowledge to succeed in key	
phenomena while emphasizing	designed as a spiral curriculum,	stage 3 Science. They will have	
the role of the scientific	meaning that essential	the necessary tools to confidently	
community in shaping our past,	knowledge and skills are revisited	and meaningfully question and	
present, and future.	and built upon with increasing	explore the world around them as	
It seeks to provide students with	complexity. This approach allows	well as critically and analytically	
a comprehensive understanding	students to reinforce their	experiencing and observing	
of Biology, Chemistry, and	understanding while tackling	phenomena. Pupils will	
Physics, coupled with a broad	more challenging concepts.	understand the significance and	
range of scientific skills applicable	Engaging recall activities help	impact of Science on society.	
beyond the classroom	students reflect on what they		
The curriculum is inclusive,	have learned previously, boosting	Children will:	
ensuring all students can	their confidence as they approach	• Develop a body of foundationa	
experience the joy of science and	new material. The curriculum	knowledge for the Biology topics	
connect their learning to real-life	emphasizes making science	in the National curriculum: Plants;	
situations.	relevant and inspiring for	Animals, Including Humans; Living	
By studying science, children	students through real-world	Things and Their Habitats;	
learn to appreciate how new	applications, and it includes	Evolution and Inheritance.	
knowledge and skills can address	cross-curricular connections to	 Develop a body of foundational 	
global challenges. Moreover, the		knowledge for the Chemistry	



curriculum encourages critical thinking, empowering students to question and understand the world around them.

Key focuses include developing knowledge and skills across scientific disciplines, nurturing curiosity, challenging misconceptions, and fostering continuous progression through practical and investigative activities.

Our curriculum aligns with National Curriculum targets and aims, aiming to equip students with the scientific literacy and skills needed for future success. help students see how science connects to other subjects.

Each Kapow unit in the Science curriculum centres on Biology, Chemistry, or Physics and is organised around six core science areas: Plants, Animals (including humans), Living things and habitats, Materials, Energy, and Forces, Earth, and Space. Through hands-on activities, students delve into these subjects while learning specialized vocabulary to enhance their comprehension. The curriculum seamlessly blends "working scientifically" skills with conceptual learning, offering students numerous chances to hone their scientific inquiry abilities. Practical activities and full investigations are woven into the curriculum to bolster skill development.

topics in the National curriculum: Everyday Materials; Uses of Everyday Materials; Properties and Changes of Materials; States of Matter; Rocks.

- Develop a body of foundational knowledge for the Physics topics in the National curriculum: Seasonal Changes; Forces and Magnets; Sound; Light; Electricity; Earth and Space.
- Be able to evaluate and identify the methods that 'real world' scientists use to develop and answer scientific questions.
- Identify and use equipment effectively to accurately gather, measure and record data.
- Be able to display and convey data in a variety of ways, including graphs. ● Analyse data in order to identify, classify, group, and find patterns.

"Making connections" units provide students with optional opportunities to delve deeper into topics beyond the core curriculum, reinforcing their existing knowledge and skills while igniting their enthusiasm. Lessons within these units employ a variety of teaching methods to accommodate diverse learning styles, including independent tasks, group work, and hands-on activities. Kapow Primary's Science program offers robust support for teachers to tailor lessons to meet the diverse needs of students. This includes tools like knowledge organizers to highlight curriculum connections and resources such as teacher videos and CPD support to deepen subject knowledge and tackle misconceptions. The program is

- Use evidence to formulate explanations and conclusions.
- Demonstrate scientific literacy through presenting concepts and communicating ideas using scientific vocabulary.
- Understand the importance of resilience and a growth mindset, particularly in reference to scientific enquiry.
- Meet the end of key stage expectations outlined in the National curriculum for Science.

designed to empower all teachers, even those without specialist backgrounds, to deliver a well-rounded curriculum and	
support student advancement	
effectively	