

# SCIENCE AT HORRINGER COURT

BURY ST EDMUNDS  
ALL-THROUGH

Trust



To provide the foundations to succeed in an ever changing world, and be inspired to want to learn more.

We also want the pupils to feel confident about trying new things in a safe environment, as well as being able to use the skills and knowledge taught in science, to enhance other lessons and activities.



## BIG IDEAS

- Skills based practical concepts across and within the three main branches of science: biology, chemistry and physics
- Gain the scientific knowledge and skill set required to understand the uses and implications of science in their lives



## CONTENT & SEQUENCING

- Investigative work to develop scientific processes and methods (from planning through to evaluating) during KS2 that will enable them to develop their scientific enquiry more independently as they move into KS3
- Use of specific simple apparatus from KS2 so that its naming and use becomes common place, moving onto to more sophisticated apparatus (where different scales must be chosen) and chemicals at KS3
- Although taught as science at KS2, topics are taught per half term allowing a basic foundation for revisiting at KS3 when chemistry, biology and physics subjects are covered at more depth and with deeper practical expectations



## LINKS WITH ENGLISH & MATHS

- Keywords and topic objective lists are frequently used
- Literacy skills including research and presentations, use of Latin and links to English vocabulary, reading, question construction and write ups
- Numeracy skills, including calculating mean/ averages, rounding, graphing, scale reading, using formulae and measuring using S.I. units, recognising anomalies, are included throughout scientific investigation work in all topics.



## RETRIEVAL PRACTICE

- \* Topic checklists used to assess prior learning, and gauge understanding after a concept is taught.
- \* Step levels given so that pupils compare progress across subjects
- \* Spiral curriculum where concepts are revisited from KS2 to KS3 (and before and after according to the Trust route planner)
- Written and verbal feedback, including self, peer and teacher assessment



## PROGRESS

- \* Topic checklists and quizzes used to consolidate learning throughout topics.
- \* Oral and written work in class and for homework
- \* Termly subject assessments to inform of understanding of each topic.
- \* Practical based assessment to show skills learnt



## SUPPORT

- Groups set in all years LPA pupils given same content but with different teaching approach
- Help and extension sheets used to extend and engage all pupils
- KS3 assessments at three levels (high, standard and core) so as to encourage all pupils
- Pupil Passports provide specific and essential guidance on relevant pupils.