



# Science at Hodnet School 2025-2027

Enabling all children to flourish in a safe, nurturing and welcoming learning environment'.

This policy should be read in conjunction with the following policies:

- Curriculum policy
- Early Years policy
- Assessment policy
- Behaviour policy
- SEND policy
- Teaching and Learning policy
- Marking and Feedback policy
- Safeguarding & Child Protection policy

**Safeguarding statement of intent:**

*Safeguarding all our children is of paramount importance to us therefore, all necessary risk assessments are carried out prior to any activity. Enhanced DBS checks are carried out when recruiting new staff or volunteers. When welcoming visitors we check whether they have a DBS and carefully monitor their contact with children according to the regulated activity rules in the DBS guidelines. We are a “Safer School” and at least one member of staff and governors who are involved in the recruitment process have attended “Safer Recruitment Training.” New staff are made aware of all the related Safeguarding documents including the Child Protection policy as part of the induction process and all staff receive Child Protection Awareness training regularly.*

**Whole School Curriculum Intent**

At Hodnet Primary School, we endeavour to provide a broad and balanced, but flexible, curriculum which meets the needs of our children, and enables every child to fulfil their potential. We pride ourselves on our ability to tailor our curriculum to the interests and needs of our children and involve the children in their own learning as much as possible. Our curriculum reflects our school aims for every child; encouraging positive relationships based upon mutual trust and respect whilst maintaining a 'can do' strive for success attitude. Our ambitious curriculum has been designed to follow the statutory requirements for all children from the Early Years Foundation Stage and the National Curriculum. We ensure that children have the opportunity to experience the curriculum and express themselves as an individual.

The key principles behind our [curriculum design](#) are based on these wishes for our children:

To be happy, respectful and kind

To be confident with a strong sense of self-belief

To be resilient

To be excited and inspired by learning

To be an independent learner and a creative thinker

To have high aspirations

To be creative

To have eyes open to a world beyond their immediate surroundings

To be an effective communicator

To have the knowledge and skills they need to succeed

## Science curriculum mission statement.

Science is the study of the physical world around us. At Hodnet school we encourage children to be inquisitive about the world around them. We aim to give every child a broad and balanced Science curriculum which enables them to confidently explore and discover what is around them so that they have a deeper understanding of the world we live in. Through direct knowledge teaching, observations and physical experiments children can learn and form ideas about their world. At Hodnet we want our children to love science and to understand that anyone can be a scientist. We want children to aim high and strive to achieve their scientific ambitions.

## Science Curriculum Implementation

We expose our children to enriching experiences, immersing them in progressive knowledge and skills and equipping them with personal characteristics required to succeed in life.

Science is taught in single age year groups as per our year group classes. Our long-term plan for science allows many opportunities for revising and revisiting previously taught units, especially in KS1 and LKS2.

	Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
1	Seasonal changes Materials		Seasonal changes Animals including Humans		Seasonal changes Plants	
2	Materials		Animals	Living things and their habitats	Plants	Animals including Humans
3	Plants Animals including humans - nutrition	Rocks	Plants Animals including humans - movement	Light	Plants – main focus	Forces and Magnets
4	States of Matter	Animals including humans – teeth	Living things and their habitats and food chains	Electricity	Animals including humans – digestive system	Sound
5	Earth and Space	Forces	Properties and changes of materials		Living things and their habitats	Animals including Humans
6	Electricity	Light	Living things and their habitats		Animals including humans	Evolution and Inheritance

Teachers at Hodnet are passionate about excellent Science teaching and the importance of Science as a subject in today's world. Teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children are capable of achieving high standards in science. Our whole school approach to the teaching and learning of Science involves the following:

- As a school we follow and teach to the national curriculum objectives for Science for both knowledge and working scientifically.
- Science is taught weekly in all year groups for a minimum of two hours per week.
- Science lessons are a mixture of direct knowledge teaching with related activities and practical work to back up the knowledge children have gained.
- Lessons are planned in detail by staff to show progression and depth throughout a unit.
- Inspiration and ideas for science lessons comes from many different areas which are researched by the science co-ordinator and shared with staff on a regular basis.
- Progression in knowledge and working scientifically skills is tracked throughout the years using the PLAN progression in knowledge and PLAN progression in working scientifically documents.
- Lessons build upon the learning and skill development of the previous years.

- Working scientifically skills are embedded into lessons to ensure these skills are being developed throughout the children's time in school.
- New and important scientific vocabulary is displayed within the classroom and introduced through direct teaching.
- Teachers demonstrate how to use scientific equipment in order to embed scientific understanding.
- Teachers find opportunities to develop children's understanding of their surroundings by accessing outdoor learning whenever possible. This is done to a high standard in EYFS and KS1 using forest schools.
- Children are offered a range of activities, visits, trips and visitors to complement and broaden the curriculum. These are purposeful and link with the knowledge being taught in class.
- Regular events such as science weeks allow children to come off timetable and apply the knowledge and skills they have learnt. These events also often involve families and the wider community.

## Curriculum Impact

We measure the impact of our curriculum intent by reviewing what we hope to achieve against what we deliver and monitoring that alongside our curriculum aims.

Our Science curriculum is high quality and well thought out with opportunities for revisiting and revising key learning. It is also planned to demonstrate progression through the years. If children are keeping up with the curriculum they are deemed to be making good progress. In addition we measure the impact of our curriculum through the following methods:

- We can see the success of our science teaching in our books which shows clear progression in knowledge throughout a unit of work from beginning to end.
- We can also see how many children are hitting 'expected' in science through analysis of our tapestry data.
- End of KS2 data also tells us how many children are 'expected' in science at the end of their primary school experience.

## Curriculum sparkles!

At Hodnet we encompass the key drivers of Cultural Capital by ensuring our curriculum has that bit of extra sparkle by including the following enrichment opportunities:

**Opportunities linked to Science are highlighted.**

	Weekly magic!	Termly specials!	Visits/visitors	One offs	Extra bits
EYFS	<ul style="list-style-type: none"> <li>•Letter sound learning through themed days/events</li> <li>•Forest Schools</li> <li>•Gardening</li> <li>•Outdoor / physical Maths</li> <li>•Class Library</li> <li>•Picture news</li> </ul>	<ul style="list-style-type: none"> <li>•Termly Curriculum Enrichment weeks (careers, health, Fairtrade, community, the arts)</li> <li>•Church Achievement celebration &amp; performance</li> <li>•Rock Steady music concert</li> <li>•Specific workshops</li> <li>•Curriculum assembly</li> </ul>	<ul style="list-style-type: none"> <li>•Farm</li> <li>•New baby</li> <li>•Library</li> <li>•Hodnet Hall</li> <li>•Fire station</li> <li>•Tractor visit</li> <li>•Pets / animals</li> <li>•Dentist visit</li> </ul>	<ul style="list-style-type: none"> <li>•Helicopter STEM projects</li> <li>•RAF projects</li> <li>•Garden projects</li> <li>•Sports day in house teams</li> <li>•Buddy work with Y6 partner buddies</li> <li>•Theatre visits</li> </ul>	<ul style="list-style-type: none"> <li>•Diwali party</li> <li>•Chinese New Year celebration</li> <li>•Winter solstice, summer solstice.</li> <li>•Birthday celebrations</li> <li>•Nativity performance</li> </ul>

<b>KS1</b>	<ul style="list-style-type: none"> <li>•Forest Schools</li> <li>•Outdoor Maths</li> <li>•Daily run</li> <li>•Music lessons (optional)</li> <li>•Picture news</li> <li>•Penny Whistle instrument tuition</li> </ul>	<ul style="list-style-type: none"> <li>•Termly Curriculum Enrichment weeks (careers, health, Fairtrade, community, the arts)</li> <li>•Church Achievement celebration &amp; performance</li> <li>•Rock Steady music concert</li> <li>•Specific workshops</li> <li>•Curriculum assembly</li> </ul>	<ul style="list-style-type: none"> <li>•Museum</li> <li>•Art Gallery</li> <li>•Chester Zoo</li> <li>•Fire of London drama</li> <li>•Castle</li> <li>•Aquarium</li> <li>•Fire station</li> <li>•Cosford air museum</li> <li>•Dentist visit</li> <li>•Stafford High House</li> <li>•Blists Hill</li> <li>•Falconry visit</li> </ul>	<ul style="list-style-type: none"> <li>•Helicopter STEM projects</li> <li>•Shropshire Sings/choir</li> <li>•Selected inter <u>schools</u> sports competitions</li> <li>•RAF projects</li> <li>•Garden projects</li> <li>•Sports day in house teams</li> <li>•Community singing</li> <li>•Theatre visits</li> </ul>	<ul style="list-style-type: none"> <li>•Drama and visitors, dress up days</li> <li>•Nativity performance</li> <li>•NSPCC Pants</li> </ul>
<b>LKS2</b>	<ul style="list-style-type: none"> <li>•Daily run</li> <li>•Music lessons (optional)</li> <li>•Recorder instrument tuition</li> <li>•TTRS</li> <li>•Ed Shed</li> <li>•Picture news</li> </ul>	<ul style="list-style-type: none"> <li>•Termly Curriculum Enrichment weeks (careers, health, Fairtrade, community, the arts)</li> <li>•Church Achievement celebration &amp; performance</li> <li>•Rock Steady music concert</li> <li>•Specific workshops</li> <li>•Curriculum assembly</li> <li>•Lead a pupil enrichment club</li> </ul>	<ul style="list-style-type: none"> <li>•Shrewsbury museum</li> <li>•Shrewsbury Darwin town walk</li> <li>•Shropshire Hills discovery centre</li> <li>•Blists Hill Victorian town</li> <li>•Cadbury World</li> <li>•Severn Trent Water</li> <li>•Beeston Castle</li> <li>•Egyptian workshop</li> </ul>	<ul style="list-style-type: none"> <li>•Helicopter STEM projects</li> <li>•Shropshire Sings/choir</li> <li>•Swimming</li> <li>•Multiple inter <u>schools</u> sports competitions</li> <li>•RAF projects</li> <li>•Garden projects</li> <li>•Sports day in house teams</li> <li>•Community singing</li> <li>•Theatre visits</li> </ul>	<ul style="list-style-type: none"> <li>•History visitors, dress up days</li> <li>•Play / performance eg, Joseph or Aladdin</li> <li>•Fire Officer Safety talks</li> <li>•NSPCC pants</li> </ul>

<b>UKS2</b>	<ul style="list-style-type: none"> <li>•Daily run</li> <li>•TTRS duels and competitions</li> <li>•House point collectors – house captains</li> <li>•Pupil responsibilities</li> <li>•Music lessons (optional)</li> <li>•Dood instrument tuition</li> <li>•Newsround</li> <li>•Picture news</li> </ul>	<ul style="list-style-type: none"> <li>•Termly Curriculum Enrichment weeks (careers, health, Fairtrade, community, the arts)</li> <li>•Church Achievement celebration &amp; performance</li> <li>•Rock Steady music concert</li> <li>•Specific workshops</li> <li>•Curriculum assembly</li> <li>•Lead a pupil enrichment club</li> </ul>	<ul style="list-style-type: none"> <li>•Chester Zoo rainforests</li> <li>•Science museum</li> <li>•Hodnet Hall</li> <li>•Safety scene day</li> <li>•Western Park/Cosford</li> <li>•West Midlands Safari Park</li> <li>•National Space Centre Leicester</li> <li>•City trips (Liverpool, London)</li> <li>•Saxon Workshop</li> <li>•Ironbridge &amp; Tile museum</li> </ul>	<ul style="list-style-type: none"> <li>•Helicopter STEM projects</li> <li>•London trip</li> <li>•School sleepover stargazing experiences</li> <li>•RAF / STEM projects</li> <li>•Shropshire Sings/choir</li> <li>•Swimming gala</li> <li>•Multiple inter schools sports competitions</li> <li>•Sports day in house teams</li> <li>•Buddy projects (YR&amp;Y6)</li> <li>•Theatre visits.</li> </ul>	<ul style="list-style-type: none"> <li>•Play / performance eg, Joseph or Aladdin</li> <li>•History visitors, dress up days</li> <li>•Oakerwood Residential trip. 1 week.</li> <li>•Bikeability programme</li> <li>•CPR first aid</li> <li>•NSPCC pants, stay safe speak out</li> </ul>
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