



**“We all flourish from a wealth of learning experiences that positively impact on our educational, physical and emotional success”**

## Horsted School



### Design and Technology Policy

Horsted school is a vibrant, safe and welcoming school where we celebrate and welcome differences within our school community. The ability to learn is underpinned by the teaching of basic skills, knowledge, concepts and values with a vision to prepare pupils for a happy and healthy life beyond primary school.

The shared vision of the Bluebell Federation is:

“We all flourish from a wealth of learning experiences that positively impact on our educational, physical and emotional success.”

Our school value, which underpin our curriculum, is that our children will leave us with a genuine enthusiasm for learning and as

1. **Striving** (they will be determined, persevere and they will be resilient);
2. **Thoughtful** (They will be creative, logical and curious about their world and those around them);
3. **Ambitious** (personally, emotionally and academically);
4. **Resilient** (be motivated, be able to problem-solve and stay positive); and
5. **Supportive** (of themselves, others and their wider community) individuals.

#### Aim and purpose

We aim to achieve this through our curriculum’s rich web and in partnership with parents. The curriculum at Horsted is designed to provide an enjoyable, broad and balanced education that meets the needs of all children. It provides opportunities for children to develop as independent, confident and successful learners, with high aspirations, who know how to make a positive contribution to their community and the wider society.

Horsted is an inclusive school. We strive to ensure that all children will be able to access the curriculum or make necessary modifications to it in order to achieve this.

<b>Approved by:</b>	<b>Mr. M. Cluett</b>	<b>Date:</b> 6/3/2025
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## **DESIGN AND TECHNOLOGY POLICY**

‘Design and Technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others’ needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.’ (DfE 2014)

At Horsted School, we are committed to children being able to find out about their world and how things work through opportunities to design and make functional products with a real purpose and user in mind. Our ambitious D&T curriculum follows the KAPOW Primary scheme and aims to inspire a new generation of innovators and to equip them with the tools that they will need to understand and to strive for real change, on a local, national and global scale.

Children acquire and apply knowledge and understanding of materials and components, mechanisms, control systems, joins, nutrition, prototypes, planning, nets, structures, existing products, parameters of quality and health and safety. The skills learnt in D&T are transferable to numerous other areas of the curriculum: Measurement is used in mathematics. Understanding of materials is used in science. Experience with tools can afford new freedom and scope in art lessons. Ethical sourcing of materials, environmental impact and consideration of location and location specific aesthetics link to our geography learning. Additionally, geography is complimented by the work on nutrition and seasonality that is completed yearly. Knowledge of great inventors and inventions represents important cultural understanding that is informative for history and science lessons and for many of our reading VIPERS texts.

Design and Technology education helps develop children’s STARS qualities through collaborative working, problem-solving and a trial and improvement approach. Resilience is key in our approach to D&T and we teach students that the majority of great innovations occurred only after repeated failures. This may mean that many children will not complete a unit of D&T learning with a high-quality finished product and that is OK. They are encouraged to be thoughtful in consideration of a problem, ambitious in what they chose to design to solve that problem, striving in their execution of that design, supportive to their classmates throughout this process and resilient should it not work out first time.

According to The Design and Technology Association, there are three core activities children engage with in Design and Technology:

- Activities which involve investigating and evaluating existing products
- Focused tasks in which children develop particular aspects of knowledge and skills
- Designing and making activities in which children design and make 'something' for 'somebody' for 'some purpose' These three activities are combined in sequence to create a Design and Technology project.’

We aim to ensure that all pupils are able to:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world

- build and apply a repertoire of knowledge, understanding and skills in order to design and make high quality prototypes and products for a wide range of users
- critique, evaluate and test their ideas and products and the work of others, understand and apply the principles of nutrition and learn how to cook.
- Be resilient and persevere in the face of that knowledge that most ideas are not executed successfully on the first try.

### **Organisation and Planning:**

Taught lessons are delivered through the Kapow D&T scheme of learning and utilise the Knowledge and Skills documents that are provided at the start of each unit. Using these organisers, teachers and students build upon prior learning constantly and reiterate new knowledge (such as, but not limited to, vocabulary) until it is common in the classroom and internalised fully by the children before they advance to subsequent year groups and key stages.

Foundation Stage students take part in a carefully curated curriculum, designed to prepare them for the specific type of learning that will take part in D&T lessons. This begins through imaginative exploration of materials and different mediums, but advances with ambitious rapidity into specific equipment and material specific knowledge and skills.

### **Assessment, recording and reporting:**

Each child's performance in Design and Technology will be assessed by the teacher using ongoing formative assessment. Formative assessment is ongoing assessment used to monitor student learning in order to provide feedback that can be used to improve teaching and learning outcomes. Formative assessment also takes place via Kapow's end of unit quizzes which assess the retention of each unit's specific knowledge and skills. Summative assessments aided by our carefully tailored, original assessment statements, indicate if the teacher thinks the child is working towards the expected level, at the expected level or at a greater depth. These assessments are recorded via an online assessment book on Arbor.

We check pupils' understanding systematically and effectively in lessons, offering clearly directed and timely support, i.e. moving children on from their starting points, providing different starting points and addressing misconceptions at the point of need. We provide children with incisive verbal feedback, about what they can do to improve their knowledge, understanding and skills.

### **Inclusion:**

Teachers set high expectations for all pupils. They will use appropriate assessment to set ambitious targets and plan challenging work for all groups.

Teachers will plan lessons so that pupils with SEN and/or disabilities can study SUBJECT NAME based on their starting points and ensure that there are no barriers to pupils achieving.

Teachers will also take account of the needs of pupils whose first language is not English. Lessons will be planned so that there are teaching opportunities to help pupils develop their English.

Class teachers will make the necessary adaptations to lessons so that all pupils can access SUBJECT NAME. Class teachers, as part of quality first teaching practices, recognise that all pupils have different starting points. Class Teachers use <https://www.wigan.gov.uk/Docs/PDF/Resident/Education/Educational-Support/TESS/QFT-Checklist-Primary-Class-Strategies.pdf> to support them making choices about relevant adaptations.

Examples of Quality First Adaptations in English may be, but are not limited to:

### **Communication and Interaction:**

- Clear lesson structure with learning objectives presented orally and visually.
- Instructions given in small chunks with visual cues.
- Understanding checked by asking pupils to explain what they have to do.
- Classroom assistants planned for and used to maximize learning.
- Instructions broken down into manageable chunks and given in the order they are to be done.
- Delivery of information slowed down with time given to allow processing.
- Pupils are given a demonstration of what is expected.
- TAs used effectively to explain and support pupils to ask and answer questions.
- In class support to facilitate access to the curriculum.

### **Cognition and Learning:**

- Instructions broken down into manageable chunks and given in sequence.
- Pupils encouraged to explain what they have to do to check understanding.
- Links to prior learning explicitly made.
- Key learning points reviewed at appropriate times during and end of lesson.
- Range of coloured overlays/reading rulers available.
- Coloured paper for worksheets and coloured background on smart board.
- Diagrams and pictures to add meaning alongside text.
- Additional time to complete tasks if necessary.

### **Social, Emotional and Mental Health:**

- Refer pupils regularly to classroom code of conduct, whole class targets and use consistently – ensuring that supply staff apply same consistency.
- Play calming music where appropriate.
- Use interactive strategies e.g. pupils have cards/whiteboards to hold up answers, come to the front to take a role etc..
- Make expectations for behaviour explicit by giving clear targets, explanations and modelling.
- Ensure that tools/equipment are easily accessible and available for use.
- Use pupil's name and ensure you have their attention before giving instructions.
- Chunk instructions and support with visual cues.
- Make use of different seating and grouping arrangements for different activities.
- Communicate in a calm, clear manner.
- Keep instructions, routines and rules short, precise and positive.
- Transition from whole class work to independent or group work is taught, clearly signalled and actively managed.

### **Sensory and Physical Needs:**

- Give as many first hand 'real' multi-sensory experiences as possible.
- Ensure correct seating in relation to board, whiteboard, Smartboard taking into account levels of vision in each eye.
- Try out different paper/Smartboard colours to try to find best contrast.
- Eliminate inessential copying from the board.

Even with support, some children may not progress as is expected. They may have specific learning needs. If this is the case, the child's teacher, in discussion with the SENCO, and the child's parents, may conduct further investigations and seek support from outside agencies.

Further information can be found in our statement of equality information and objectives, and in our [SEN policy](#) and information report.

### **The Role of the Subject Leader:**

- To advise colleagues, where necessary, on the development of planning and delivering the curriculum.
- To keep up to date with developments in design and technology education passing this on to other members of staff.
- To monitor and evaluate progress and outcomes in design and technology, supported by the knowledge and skills progression document for D&T and liaise with senior leadership on any action necessary.
- To liaise with appropriate bodies e.g. other primary and secondary schools, governors, the LEA etc. concerning matters relating to design and technology.
- To monitor learning in design and technology by working alongside colleagues and by viewing children's achievements.
- To listen to the pupil's voice and use these exchanges to highlight areas for improvement in the delivery of the D&T curriculum

### **Resources:**

The list of resources used throughout the D&T curriculum is vast and can be found on the Kapow website here – [https://www.kapowprimary.com/featured\\_documents/design-and-technology-resources-and-costings-sheet/](https://www.kapowprimary.com/featured_documents/design-and-technology-resources-and-costings-sheet/)

Those stored in the school are kept in the D&T/Science cupboard, the Infant and junior maths and art cupboards and in each classroom in the Horsted Junior building.

### **Health and safety:**

When working with tools, equipment and materials, in practical activities and in different environments, including those that are unfamiliar, pupils should be taught:

about hazards, risks and risk control.

- to recognise hazards, assess consequent risks and take steps
- to control the risks to themselves and others.
- to use the information to assess the immediate and cumulative risks.
- to manage the environment to ensure the health and safety of themselves and others.
- to explain the steps they take to control risks.

A full list of risk assessments associated with each taught unit on the curriculum can be found on the Kapow website here - [https://www.kapowprimary.com/featured\\_documents/dt-risk-assessment-pdf-featured-document/](https://www.kapowprimary.com/featured_documents/dt-risk-assessment-pdf-featured-document/)