



# **Design Technology**

# INTENT – To what do we aspire for our children?- Vision - Design - Aspirations for our curriculum

### **Our Vision**

'We are a Family of Friends who LEARN together.'

### **Our Goal**

Our vision for excellence within our design and technology curriculum is created in line with the National Curriculum Purpose of Study and aims to provide:

- a high-quality design technology education that will help pupils to gain a coherent knowledge and understanding of how functional products are designed and made within the real world
- a curriculum that inspires pupil's curiosity to know more about how the everyday items that they use are made
- teaching that will equip pupils to think critically and innovatively when making design choices
- a learning journey that helps pupils to understand why products are made for specific target audiences, the processes involved in the making of a product and how an evaluation can contribute to the improvement of a product

#### Our intention is to:

- engage, inspire, motivate, support and challenge
- ensure our learners progress academically and become more expert as they progress through the curriculum
- develop successful, informed, engaged, thoughtful, confident learners, who make a positive contribution to the community and society both now and in the future

Our Values & Curriculum Drivers At Hove Learning Federation, design technology is driven by the following values:						
	Love of Learning	<ul> <li>Inspire children's curiosity about how everyday items are designed and made</li> <li>Encourage children's ability to think critically about existing products and implement their findings during the design stage</li> <li>Encourage innovative thinking that is inspired by the products that are explored</li> <li>Embrace the creativity involved in designing and making their own product</li> <li>Develop children's skills in carrying out practical tasks such as cutting, shaping, joining and finishing</li> <li>Promote children's enjoyment of experimenting with flavours and textures in food</li> <li>Establish children's understanding of the processes involved in designing and making a product</li> <li>Introduce children to a range of jobs and professions that involve design technology</li> <li>Support children to learn about designers and inventors who have shaped our world</li> </ul>				
	Equality, Diversity & Inclusion	<ul> <li>Encourage all children to see themselves as designers and inventors</li> <li>Celebrate the differences in children's ideas and unique designs</li> <li>Promote children's of awareness of how different success can look</li> </ul>				
	Aiming High	<ul> <li>Encourage children to ask how and why questions when exploring existing products</li> <li>Develop children's critical thinking about existing products and designs</li> <li>Support children to evaluate the effectiveness of existing products to inform their own designs</li> <li>Inspire children's creativity and innovation within their own designs and make</li> </ul>				



ري. ه	Respect and Well- being	<ul> <li>Encourage children to respect each other's ideas, designs and finished products</li> <li>Promote children's understanding of the hard work and long processes that have gone into making the simple things that they use each day, including buildings</li> <li>Promote children's understanding about how food and drink can impact well-being</li> </ul>
	Nurture and Citizenship	<ul> <li>Encourage children to consider how products have been made and whether or not they are eco-friendly</li> <li>Develop children's awareness of how certain designs and inventions have impacted our way of life</li> </ul>

# Our Curriculum Design Meet the needs of every child across the whole curriculum

Equity	Inclusion	Learning Behaviours	Personal Development	Skills	Knowledge and Understanding	Creative and critical thinking	Cultural Capital
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Equality of opportunity. All children to succeed no matter their entry point.	Every child, whatever their individual abilities or needs, is equally valued.	Attitudes and attributes for learning and life.	Equip children to become global citizens, who live happy and healthy lives and know how to achieve their goals.	Curriculum mapped to include the subject specific skills required to attain and excel. Children develop learning to learn skills such as metacognition.	Deep learning of the key concepts of our curriculum and the National Curriculum.	Both are nurtured. Children are challenged to question, reason and express themselves.	Is a golden thread, woven through everything we do to teach children well?

# **Learning Characteristics Animals**

# Underpinning Hove Learning Federation's curriculum are our learning characteristic's animals:

Independence	Perseverance	Curiosity	Imagination	Co-operation
Stat 2				





# Design Technology Long Term Sequence Features

	Features							
Sequencing	Small Steps	Spiral	Long Term Memory	Making New Links	Cognitive Load	Key Concepts	Substantive and Disciplinary Knowledge	
	<u></u> 3	6		P	+	~ M		
Our curriculum design deliberately sequences units of learning from EYFS to Year 6 to ensure children develop their skills in designing and making and increase their knowledge in the various areas of design technology through a variety of creative and practical activities.	Learning is chunked into small steps that allow children to build knowledge and deepen understanding lesson to lesson, unit to unit and year to year.	The spiral design of our curriculum means children will return to key learning points and concepts. For example, when working with food, children revisit the idea of a healthy diet year upon year and gradually build on their understanding , starting with what foods we should only eat sometimes and gradually working towards an understanding of what each food type does for our bodies.	The progression of knowledge in design technology has been clearly mapped across each year group to ensure children will transfer new learning to long term memory. The ultimate goal is to make the learning stick!	The acquisition of knowledge into long term memory means that children are able to make links with new learning more easily. Our curriculum overview shows how new learning is carefully imparted over time.	Our long-term sequence for design technology reduces cognitive load by mapping out opportunities for children to review learning from previous units and years. All staff are aware of the units and lessons covered in previous years in order to refer back.	Children develop knowledge about key concepts in design technology which allow them to create their own products from start to finish.  They will develop a strong understanding of the process involved in the designing and making of products that we use every day.	Substantive Knowledge The subject knowledge and explicit vocabulary used to learn about the content.  Disciplinary Knowledge The knowledge about how designers, inventors, architects and other product creators go from an idea to a finished product. It is through disciplinary knowledge that children become able to think like a designer.	





# Purpose of the Sequence Progression

Our curriculum is sequenced in line with the EYFS Statutory Framework (2021), Development Matters (2021) and the National Curriculum for Design Technology (2013).

### Why do we have a long-term sequence? What is its purpose?

- It is our intention for children to deepen their knowledge and understanding in design technology over time through thoughtfully sequenced exposure to a progression of substantive and disciplinary knowledge.
- Our spiral curriculum is designed on the principles of instruction and is influenced by our understanding of how the memory works and cognitive load theory.
- Research shows that this will ensure knowledge is transferred to long term memory and making links with new learning is more accessible.

#### EYFS:

In Early Years, our children are guided through opportunities to express their ideas and feelings. They will be encouraged to explore the things around them to inspire their own making and will be able to safely use and explore a variety of materials, tools and techniques through free play. They will begin to develop an understanding of our technologically diverse world.

#### **KS1**:

The sequence in KS1 guides children to understand how and why certain products are made and what things are considered in the process of designing and making, including the purpose. This will underpin their understanding of how everyday objects that we used are made.

**In food**, children will start by making a fruit salad and considering why we must all eat our 'five a day'. They will then go on to make a sandwich, thinking more closely about where food originates from and what happens to it before we eat it.

Their knowledge of healthy eating will be further developed later on when they make pizza for a picnic. Within this unit, they will name and sort foods into the five groups and will use the 'Eat Well' guide to design and prepare a balanced dish.

In mechanics, children will begin by making a moving dragon, thinking about how movement can be created with sliders. They will then move onto making movement with a simple lever when designing and creating a superhero card with a moving element. As well as this, they will create a spinning motion, first with a windmill and second with a moon buggy. They will progress to learning about how an axel impacts the movement of the wheel.

**In textiles**, children will first design and make their own hand puppet, learning how to cut, shape and join fabrics. They will later move onto using more complex stitches and will create their own sunglasses case after making a mock-up with paper.

**In construction**, children will make various structures, considering how to make these strong and stable. Firstly, they will make a model castle, using their understanding of appropriate materials and tools for cutting, assembling and measuring.

#### Lower KS2:

In lower KS2, children will get to grips with the process involved in designing and creating a new product.

They will further their skills and understanding across the different areas of design technology and learn about some jobs that are associated with design technology.

**In food**, children will make oatcakes and look into what processes food goes through before we eat it. They will then move onto making bread, focusing more closely on how a healthy and varied diet can be created.

**In mechanics**, children will create pop-up books using more complicated levers and linkages. They will later experiment with making their own innovative pulley systems to lift heavy objects.

In construction, children will design and make Roman temples, looking closely at how to create a strong frame structure.

In computing, children will explore how to create their own Mayan buildings using computer software.

In electronics, children will create their own light up signs using complete circuits and will build their own switches.

#### **Upper KS2:**

In upper KS2, children will gain a strengthened understanding of the process involved in designing and creating a new product. They will deepen their skills and understanding across the different areas of design technology and learn more about jobs and specific figures in the design technology world.

In food, children will make apple pies and will learn about seasonality, as well as how to safely store food.

In mechanics, children will use CAMS to create a rotary motion within their own fairground rides.

**In textiles**, children will start by making a sturdy, functional money container with various fasteners. They will then go on to create their own T-Shirt bag, looking more closely at using embellishments to alter the aesthetics.

**In construction**, children will learn more about how to make a sturdy shell structure whilst designing and building their own Anderson shelters.





## **HLF Design Technology Long Term Plan**

Our curriculum starts in EYFS and ends in Y6. Our long-term plans include the unit, concept question and small step, lesson by lesson progression.

		EYFS	Y1	Y2	Y3	Y4	I YS	Y6
		Bears, Bears, Bears!	Wonderful & Wild!	To infinity and beyond!	Portals Through the Ages	The Roamin' Romans	Brighton Rocks!	A Great American Road Trip
AU1	Unit	?	Make fruit salad (Food)	Design and make a moon buggy (Mechanics)	Make oat cakes (Food)	Make bread for a Roman banquet (Food)	Design and make a fairground ride using CAMS (Mechanics)	Make apple pie (Food)
	CQ	?	What makes a healthy and varied diet?	How are wheels and axles used to create movement?	What processes do ingredients go through before we eat them?	How can we make sure our diet is healthy and varied?	How are CAMS used to create movement?	Why is some food not available at certain times of the year? How do we safely store food?
	Steps				Looking at where food comes from     Tasting other oat cakes     Planning oat cakes     Making oatcakes     Evaluating the finished product	Looking at a balanced diet and what the Romans ate     Planning bread     Making bread     Making bread     Designing a banquet menu     Evaluating the finished product	Looking at different fairground rides on the Brighton Pier     Looking at what CAMS are and how they work     Designing a fairground ride using CAMS     Making a fairground ride     Evaluating the finished product	Looking at a balanced diet and how to safely store food     Planning a recipe and ordering ingredients     Making an apple pie     Evaluating the finished product
		Bears, Bears, Bears!	Wonderful & Wild!	Heroes and Villains	Portals Through the Ages	The Roamin' Romans	Brighton Rocks!	A Great American Road Trip
AU2	Unit	?	Make a sandwich (Food)	Design and make a superhero card (Mechanics)				
	cq	?	Where does food come from?	What are the parts of a lever?				
	Steps							
			The Secret Garden	Into the Jungle	Trash to Treasure	Vicious Vikings?	The Mighty and Mysterious Maya	A World At War
SP1	Unit	Design and make an emergency vehicle (Construction)	Design and make a moving dragon (Mechanics)		Design and make pop up books (Mechanics)	Design and make flag poles (Mechanics)	Design a Mayan building using CAD (Computing)	Design and make Anderson shelters (Construction)
	CQ	How can different materials be joined?	How are sliders used to create movement?		How are levers and linkages used to create movement?	How are pulleys used to create movement?	How is CAD (computer aided design) used to create buildings?	How is a strong shell structure built?
	Steps				1) Looking at other pop-up books and how they work 2) Practising skills for making a pop-up book 3) Designing a pop-up book 4) Making a pop-up book 5) Evaluating the finished product	Looking at pulleys in the real world and how they work     Exploring materials to make a pulley     Designing a flag pole with a pulley     Making a flag pole     Evaluating the finished product	Looking at buildings in ancient     Maya and the shapes etc.     Exploring 2D Design tools     Designing a Mayan building     Creating a Mayan building on 2D     Design     Evaluating the finished product	Looking at Anderson shelters and what made them so strong     Designing an Anderson shelter     Making a prototype structure     Making the Anderson shelter     Evaluating the finished product
			The Secret Garden	Into the Jungle	Trash to Treasure	Vicious Vikings?	The Mighty and Mysterious Maya	A World At War
SP2	Unit	Explore textiles through countries (Textiles)	Design and make a castle (Construction)	Design and make rainforest instruments (Construction)				
	cq	What different fabrics and textiles can be found around the world?	How are castles designed and built?	How is sound created through instruments?				
	Steps							
			Castles and Caves	Beside the Seaside!	Roamin' Romans	Walk Like An Egyptian	The Groovy Greeks	The Windrush Generation
S1	Unit	Make a Gingerbread Man (Food)	Design and make a secret garden windmill (Mechanics)	Make a pizza for a picnic (Food)	Design and make a Roman temple (Construction)	Design and make a light up sign (Electronics)	Design and make a money container (Textiles)	Design and make a bag using an old T-Shirt (Textiles)
	CQ	What are healthy foods?	How do windmill sails spin?	How can a variety be used for a meal?	How is a strong frame structure built?	How do light up signs work?	How can different fabrics and stitches make a product sturdier?	How can textiles be used to change the aesthetics of a product?
			-				make a product sturdier?	the aesthetics of a product?
	Steps				Looking at Roman architecture     Practising skills for making frames     Designing a temple     Making a temple     Evaluating the finished product	Looking at light up signs     Practising making circuits     Designing a light up sign     Making a light up sign     Evaluating the finished product	Looking at money containers     Designing a money container     Making a prototype container     Practising stitches     Making a money container     Evaluating the finished product	Looking at bag designs     Practising embellishment techniques     Designing a bag     Making a bag     Evaluating the finished product
			Castles and Caves	Beside the Seaside!	Roamin' Romans	Walk Like An Egyptian	The Groovy Greeks	The Windrush Generation
52	Unit	?	Design and make an animal puppet (Textiles)	Design and make a sunglasses case (Textiles)				
	CQ	?	How are fabrics joined?	What different ways can fabrics be opened and closed?				
	Steps							

## **HLF Subject Progression Ladders**

Our Subject Leads created our Subject Progression Ladders to ensure the National Curriculum is taught step by step. They illustrate the progression of skills, knowledge and vocabulary taught through EYFS, Key Stage 1 and Key Stage 2.

Breaking down the National Curriculum objectives allows our teachers to plan for progression and provide all of our learners with the small steps they need. Identifying knowledge and skill progression in this way enables our teachers to plan an ambitious and effective spiral curriculum through the key stages which results in long term learning.

Subject and Year Leads use the Subject Progression Ladders to design and plan assessments and for monitoring.

They illustrate the progression of skills, knowledge and vocabulary taught through EYFS, Key Stage 1 and Key Stage 2.





	Year R (Creating with Materials, Being Imaginative & Expressive) Nursery Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	By the end of Reception: Through a variety of creative and practical activities, pupils should be taught how to express their ideas and feelings.	By the end of Year 2: Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing.  They should work in a range of relevant contexts. Children design purposeful, functional, appealing products for themselves and other users based on design criteria. They generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.		By the end of Year 6: Through a variety of creative and practical activities, pupils should be taught the knowledge, understand and skills needed to engage in an iterative process of designing.  They should work in a range of relevant contexts.  Children use research and develop design crinevative, functional, appealing products that are fit purpose, aimed at particular individuals or groups.  They generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploding arms, prototypes, pattern pieces and computer-aided design.			
		Understand and follow	simple design criteria.	Develop and follow	simple design criteria.	Develop and follow sir	mple design criteria.
		Use their knowledge of exist experience to help g			ad range of existing products to te their ideas.	Use their knowledge of a broad ra generate th	
		Design products that have a p			aling products that have a clear med at a specific user.	Design products that have a clear features of their products that w	
Design		intende	d user.		f their products that will appeal d customers.	Use research to inform and deve inform the design of innovative, fu that are fit for purpose and	nctional and appealing pro-
	Explore different materials freely.  Develop his/her own ideas and decide which materials to	Plan and test ideas using t			erent initial ideas before coming final design.	Generate a range of design ideas desig	
	use to express them.  Return to and build on his/her previous learning, refining ideas and developing his/her ability to represent them.	(Y1: moving dragons, (Y2: moon buggies, super		(Y3: pop-up book	ugh using prototypes. cs, Roman temples) og poles)	Test ideas out throug (YS: fairground rides, (Y6: Anderso	money containers)
	Explore, use and refine a variety of artistic effects to express			Explain how particular pa	arts of their products work.	Explain how particular part	s of their products work.
	their ideas and feelings. (ELG)	Explain how their products talking and simple a			d cross-sectional drawings to nunicate their ideas.	Use annotated sketches, cross-se diagrams to develop and c	
				When planning, start to explain their choice of materials and components including function and aesthetics.		Consider the availability and cost out des (Y6: apple pie	igns.
						Use computer-aided design to develop and communicate their ideas.  (YS: Mayan buildings)	
		Work in a range of relevant cor story-based, home, school a		Work in a broader range of relevant contexts, for example entertainment, the home, school, leisure, food industry and the wider environment.		Work in a broad range of relevant contexts, for example conservation, the home, school, leisure, culture, enterprise, industry and the wider environment.	
Vocabulary	idea, design, materials, use	idea, design, plan, materia functio		design brief, design crit	eria, innovative, functional, appea	lling, purpose, user, annotated, prot	otype, aesthetic qualities
	By the end of Reception: Through a variety of creative and practical activities, pupils should be taught how to safely use and explore a variety of materials, tools and techniques.	By the end of Year 2: Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of making. Children select from a		By the end of Year 6: Through a variety of creative and practical activities, pupils should be taught the knowledge, understated and skills needed to engage in an iterative process of making.  Children select from and use a wider range of tools and equipment to perform practical tasks, accurately. They select from and use a wider range of materials and components, including construction materials, textiles and ingredict according to their functional properties and aesthetic qualities.			I tasks, accurately.
				Place the main stages of m	naking in a systematic order.	Independently plan by sug	gesting what to do next.
				With growing confidence, care	fully select from a range of tools		
		Begin to select from a range o					s as a guide to making.
				Learn to use a range of too	olaining their choices.	equipment, explain	s as a guide to making.  from a wide range of tools ing their choices.
			f hand tools and equipment.	Learn to use a range of too appro	plaining their choices.		s as a guide to making.  from a wide range of tools ing their choices.  and equipment safely and
		Select from a range of materia according to their	als, textiles and components	Learn to use a range of too approing (Y4: flog p  Select from a range of materia	olaining their choices.  Is and equipment safely and priately.	equipment, explain	s as a guide to making.  from a wide range of tools ing their choices.  and equipment safely and lately.  and components according
Make	Begin to create, exploring shape and texture with modelling materials.		als, textiles and components characteristics.	Learn to use a range of too appropriate (**4: flog p (**4: flog p Select from a range of materia their functional properti Use a wider range of materia construction materials and ki	Is and equipment safely and priately.  oles – saws)  Is and components according to	equipment, explain  Learn to use a range of tools appropri  Select from a range of materials	as a guide to making.  from a wide range of tools ing their choices.  and equipment safely and ately.  and components according and aesthetic qualities.  and components, including is, textiles, and mechanical
Make	materials.  Begin to manipulate materials to achieve a planned effect.	according to their	als, textiles and components characteristics.	Learn to use a range of too appropriate (Y4: flog p (Y4: flog p Select from a range of materia their functional propertil Use a wider range of materia construction materials and ki electrical Celectrical With growing independence,	Islaining their choices.  Is and equipment safely and priately, ofes – saws;  Is and components according to es and aesthetic qualities.  als and components, including to, textiles and mechanical and	equipment, explain  Learn to use a range of tools appropri  Select from a range of materials their functional properties  Use a full range of materials a construction materials and kit compon  Independently take exact measure  1 millim	is as a guide to making.  from a wide range of tools ing their choices.  and equipment safely and ately.  and components according and aesthetic qualities.  and components, including s., textiles, and mechanical ents.  ements and mark out, to wietre.
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Make	materials.  Begin to manipulate materials to achieve a planned effect.  Explore a variety of techniques.  Practice using small tools, including scissors and paint brushes.  With support from adults, develop proficiency, control and	according to their Use a range of materic With help, measu	als, textiles and components characteristics.  als and components.  re and mark out.  rials with some accuracy.	Learn to use a range of too approof (Y4: flog page) Select from a range of materia their functional propertit Use a wider range of materia construction materials and kingle electrical construction materials and some materials construction.  Cut, shape and score materials Assemble, join and combine.	slaining their choices.  Is and equipment safely and priately,  poles = saws;  Is and components according to  es and aesthetic qualities.  als and components, including  ts, textiles and mechanical and  omponents.  measure and mark out to the  nd millimetre.	equipment, explain  Learn to use a range of tools appropri  Select from a range of materials their functional properties  Use a full range of materials and kin compon  Independently take exact measure  1 millim  Cut a range of materials wit	as a guide to making.  from a wide range of tools ing their choices.  and equipment safely and ately.  and components according and aesthetic qualities.  ind components, including is, textiles, and mechanical ents.  ents.  h precision and accuracy.  the precision and accuracy.  terials and components with the precision and accuracy.
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## **Substantive Knowledge**

This is the subject knowledge and explicit vocabulary used throughout the different areas of design technology.

# Golden Thread – 3D Curriculum Curriculum Drivers & Substantive Concept Mapping

Our curriculum drivers and our design technology substantive concepts are the 'golden thread' running through our design technology curriculum. Children learn abstract concepts through meaningful examples and repeated encounters in different contexts across the curriculum. This explicit planning supports children to transfer their knowledge across the curriculum and use it to frame future learning. This supports our work towards a 3D curriculum that promotes remembering. Our 3D curriculum is designed so that knowledge is built upon term by term, year by year and between topics across a variety of year groups. This enables our children to gain and retain more knowledge and understanding.

Design technology 3D Curriculum								
Vertical Links	Horizontal Links	Diagonal Links						
Concepts deliberately constructed within a subject that are encountered across year groups from EYFS to Y6 (for example: the concept of designing: this is explored from EYFS to Y6 in every design technology unit).	Links between subjects, commonly known as cross-curricular, or themed (for example: creating a circuit in Y4 science, electricity unit, and creating a circuit for a product in Y4 design and technology).	Concepts connected across both year groups and across subjects (for example: learning about healthy eating in PSHE and science as well as in design technology, and revisiting this several times from EYFS to Y6).						
	<del></del>							





## **Design Technology Substantive Knowledge**

Substantive knowledge is the carefully sequenced, factual knowledge that we learn through our curriculum; our life-long learning and other information that we learn alongside this. Children use prior knowledge to make links with new learning which is why our spiral structure ensures deepening understanding across our curriculum. Children need carefully planned opportunities to apply and make sense of what they have learnt. Prior knowledge is revisited and misconceptions actively diagnosed.

There are 6 areas that encompass the substantive knowledge which is developed within design technology across our school. We return to these across the topics within our spiral curriculum.

KS1: food, textiles, construction, mechanics

KS2: food, textiles, construction, mechanics, electronics, computing

Food	Textiles	Construction	Mechanics	Electronics	Computing
Understand the principles of nutrition and apply them when learning how to cook. Select ingredients to make a recipe for a purpose.	Select materials from a range of textiles and the correct component pieces to produce a desired textile design. Confidently sew, attach and affix sections to create a whole end piece. Learn to consider the functional and aesthetic properties of fabrics.	Confidently select the right tools to perform practical tasks such as shaping, joining, cutting and finishing. Know how to use tools safely and prepare your workspace to do so.	Learn how to build structures investigating how they can be stronger, safer and more stable. Understand how to reinforce more complex structures. Explore and utilise mechanisms such as levers, sliders, wheels and axles to achieve a desired product design.	Create products that use electrical systems and show understanding of series circuits, incorporating switches, bulbs, buzzers and motors.	Design products that utilise understanding of computing to program, monitor and control. Be confident to participate in an increasingly digital world.





### **Design Technology Disciplinary Knowledge**

Disciplinary knowledge describes the varied types of questions that designers ask in order to design and make a new product. It is the skills children use when being a designer and the way in which we learn. In DT we learn through researching, designing, making and evaluating products. Within our design technology curriculum, children will consider the following disciplinary themes:

USER – to have a clear idea of who they are designing/making the product for.

PURPOSE – to be able to communicate the purpose of the product they are designing/making

FUNCTIONALITY - to design a product that works and functions effectively to fulfil the user's needs

DESIGN DECISIONS – to make own design opportunities, explore their own decisions and choices

INNOVATION – opportunities to be original with their thinking, develop and explore their own ideas incorporating the essential skills involved in the process

AUTHENTICITY – to make products that are believable, real, and meaningful to themselves and others, not just replicating ideas.

Explore	Design	Make	Evaluate
<b>I</b>			
This includes researching and finding about existing products and designers.	The art or process of deciding how something will look or work and developing initial ideas into a final design.	Creating something by combining materials or putting parts together so that they follow the design set out.  Changes made to the design during the making progress are recorded within the evaluating phase.	Use something or make something work in a particular situation.  Form an opinion of the value or quality of something after careful thought.

## **Local Knowledge, Enrichment & Cultural Capital**

### Local knowledge and community

At HLF, we value the importance of our local community. Within our design technology curriculum, we encourage local people to come in and discuss their jobs within this industry to help inspire our children.

### **Enrichment**

We provide enrichment opportunities that can happen inside or outside of the school but that complement classroom instruction. The aim is for our children to try new and varied activities that help to develop character, resilience, and motivation, and that encourage our children to pursue their interests and become lifelong learners. We know that enrichment activities can empower children to develop skills, discover passions, and foster a well-rounded education.

#### **Cultural Capital**

These are the opportunities such as trips, visits, local walks and interactions with members of our local community that our woven through our curriculum that give children the essential knowledge needed to be educated citizens that have an appreciation of how human creativity and achievement in the past has, and continues to, influence our lives. However cultural capital is also derived from the learning opportunities in the classroom, the sources of inspiration for lessons carefully curated by our staff and the dialogue around design and evaluation that children are engaged with.



# Implementation – How do we deliver the curriculum? -The strategies and steps that we take every day to achieve our curriculum intent

## Sequencing

Our design technology curriculum is taught across each year group in units which link to our topics. This enables our children to build a depth of knowledge, acquire and practise key skills and embed vocabulary. Each unit is strategically planned to build upon prior learning with opportunities to introduce and revisit key concepts woven throughout in order to deepen pupil understanding. An example of this is outlined below:

YR	Y1	Y2	Y3	Y4	Y5	Y6
. Bear, Bears, Bears . People Who Help Us . Great Adventures . Out of the Egg . Splish, Splash, Splosh	. Wonderful and Wild . Castles and Caves . Secret Garden	. To Infinity and Beyond . Welcome to the Jungle . Beside the Seaside	. Portals through the Ages . Trash to Treasure . Roamin' Romans	. Roamin' Romans . Vicious Vikings . Walk like an Egyptian	. Brighton Rocks . The Mighty Maya . The Groovy Greeks	. A Great American Road Trip . A World at War . The Windrush Generation
. Structures (Intro to fixings and making corners) . Structures (Sharing your model) . Structures / Fixings: (Design and make an Emergency Vehicle) . Textiles (through countries) . Food (Design and make a Gingerbread Man) . Sculpture (Where the Wild Things are)	. Food (Fruit salad) . Food (Making a sandwich) . Structure & Mechanisms (Making a moving dragon) . Structures (Constructing a castle) . Structures (Secret Garden Constructing Windmills) . Textiles (Animal puppet)	. Mechanisms (Moon Buggies) . Mechanical systems (Celebration Cards) . Mechanisms (Rainforest Instruments) . Food (Picnic pizza) . Textiles (Sunglasses Case)	. Food (Oat cakes) . Mechanics (Levers) . Construction (Roman Temple)	. Food (Bread) . Mechanics (Pulleys) . Electronics (Light up signs)	. Mechanics (fairground rides) . Computing (Mayan buildings) . Textiles (Money containers)	. Food (Apple pies) . Construction (Anderson shelters) . Textiles (T-Shirt bags)



# Pedagogy Key Principles for Effective Teaching & Learning at Hove Learning Federation

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High expectations	Quality first and adaptive teaching	Developing learning behaviours	Relationships and environment	Quality of instruction
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<b>♦ 8 ♦</b>		
Inspire, support and challenge	Layered modelling to ensure access for all children	Subject knowledge and mastery	Effective questioning and feedback	Making it stick' - transferring knowledge to long-term memory
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## **Key Theories & Evidence Based Research to design lessons and units**

Below are the key theories and research that underpin our approach to pedagogy and guide our curriculum design. They are used to promote high quality teaching and used in staff CPD to develop strategies that ensure constancy of standards and pedagogical understanding.

Sweller's cognitive load theory	Rosenshine's principles of instruction	Cain and Oakhill's vocabulary instruction	Maslow's Hierarchy of Needs	
+{55}			Self- actualization  Estaem needs  Social Needs  Safety Needs  Physiological Needs	
Fiorella and Mayer's generative learning practice	Ebbinghaus' forgetting curve	Interleaving and Spacing	Bloom's Taxonomy	
j	Ebbinghaus forgetting curve		Creating  Evaluating  Analyzing  Applying  Understanding  Remembering	
Retrieval Practice	Bruner's Spiral Curriculum	Pupil Book Study	Education Endowment Foundation	
رك	6		Education Endowment Foundation	



### **Assessment**

Assessment opportunities are continuous and form a key part of our teaching and learning.

Formative assessment – opportunities are planned throughout our lesson model (see examples below).

Summative assessment – opportunities are planned at the end of units and the end of the year.

Examples of in class formative assessment opportunities							
Deliberate practice and rephrasing of taught content	Cumulative quizzing within the learning sequence	Structured discussions in class	Retrieval and recall	Explaining and challenge partner talk			
8→P 8→P 8—→P		(i.)	ر ال				
Self and peer assessment	Teacher feedback and summaries	Diagnostic questioning	Higher order thinking and exit tickets	Summarising and explaining the learning question from the sequence			
	000						
Rephrasing and thinking out loud	Key vocabulary use and application	Professor prove it	Deep diver and submarine challenges	Lesson to lesson, unit to unit, term by term, end of year feedback & concept questions			
9	★ A			6			

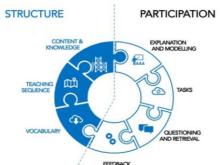
### **Mapping and Planning – 7 Lenses**

Alex Bedford's Pupil Book Study approach to quality assuring the curriculum helps us to evaluate curriculum structures, teaching methods, pupil participation and response through a dialogic model.

When undertaking these tasks, we ask the following key questions:

- How well do our children remember the content that they have been taught?
- Do books and children's discussions radiate excellence?
- Does learning 'travel' with our children and can they deliberately reuse it in more sophisticated contexts?

To ensure our monitoring is thorough and targeted, we identify what is helping and hindering by looking at structure and participation (see table below).



Pupil Book Study 7 Lenses								
STRUCTURE			PARTICIPATION					
Content and Knowledge	Teaching Sequence	Vocabulary	Explanation and Modelling	Tasks	Questioning and Retrieval	Feedback		





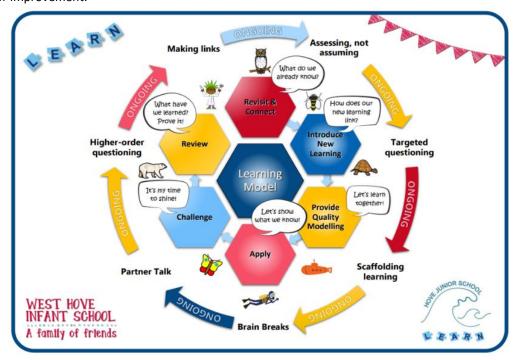
### **Lesson Structure/Model**

#### **Learning Model: The Enacted Curriculum**

To ensure constant quality-first teaching across the curriculum we have developed the Hove Learning Federation Learning Model. As illustrated in our visual guide below, each stage of the model has been carefully crafted on the most up to date evidence based research. It is a model designed to give enable all children to:

- Revisit prior learning from previous lessons and linked units from past terms and years.
- Make links with this learnt knowledge and new learning.
- Access new learning through skilled teacher modelling.
- Apply new understanding and skills with partner and independent work.
- Experience challenge at their level.
- Review the learning for that day and be guided to see how their understanding has deepened.

Teachers do not make assumptions about children's understanding but use a range of Assessment for Learning strategies to adjust lesson content and pace so that they are delivering the right knowledge and skills for the children they have in front of them. Learning is scaffolded to be inclusive to all and brain breaks and partner talk keep the learning engaging, accessible and challenging. Higher order questioning is used to guide children to make links and encourage considered thinking. Staff receive regular CPD on each element of the Learning Model. Areas for development are pinpointed through monitoring and targeted for improvement.



### **Environment and Resources**

We utilise a plethora of high-quality images and diagrams within the teaching resources we provide for our children. These are carefully designed and dual coded to minimise cognitive overload and allow each child access to their learning in the most inclusive way. Wherever possible we use inspiring images, that can be zoomed in on to explain difficult concepts and images that spark discussion and challenge thinking. The use of all resources is modelled carefully by teachers so that every child knows how to succeed in each lesson.

### Diversity and Identity across the DT Curriculum

Through our planning and curriculum mapping, we celebrate the diversity within our community and the wider world and develop confidence in individual identity through our tailored curriculum. We promote equality and use examples of where this has not always been the case in the past to support learning and promote tolerance.





### **SEND & Inclusive Learning**

We adapt the curriculum to meet the needs of all our children so that everyone can access the learning, build on their prior knowledge, and understand the skills needed to become historians.

We do this by:

|--|

Identifying the CRITICAL CORE CONTENT that pupils with SEND need to know and use.



CHUNKING knowledge and knowledge notes/models in manageable sections.



Teachers use structured RESPONSIVE FRAMEWORKS (including the use of stem sentences and sentence stems) to promote hard thinking.



Teachers use structured DELIBERATE PRACTICE to increase attention and retention.



Pupils with SEN are entitled to think hard. We use structured CHALLENGE FRAMEWORKS to promote hard thinking, drawing on the content, including explaining the word connections and sequenced thinking paths.



Dual coding (using CIP and symbols from the Noun Project) is used to pre-teach tier 2 and 3 vocabulary and is included on all lesson slides, core knowledge files and knowledge strips in Key Stage 2, and all activity sheets in Key Stage 1.



Higher level challenge partners and talking trios are used to ensure children with SEN and or EAL are provided with high quality talk and modelled language of history skills.



Activities ensure children with SEN or EAL can access tasks appropriately and share their understanding.



Differentiation and scaffolds are included where appropriate to enable access to learning and ensure children make at least expected progress.



Pictures and quotes are taken from children with SEN and or EAL to ensure evidence is recorded in books and on The Portal (EYFS).



EEF 5-A-Day approaches/strategies are reviewed and incorporated into our lessons

- 1 Explicit instruction, 2 Cognitive and metacognitive strategies, 3 Scaffolding, 4 Flexible grouping, 5
- Using technology.





# Impact – How do we know our curriculum is effective? Evidencing the standards of Teaching and Learning

In order to identify the impact our curriculum is having on our pupils, we check the extent to which learning has become permanently embedded in children's long-term memory in addition to looking for excellence in their outcomes. At HLF, we use a number of tools to quality assure the implementation and impact of our curriculum such as:

- Pupil Book Studies (Subject Reviews & Shallow Splashes)
- Subject Meetings
- Subject analysis & Action plans
- Formative and Summative Assessment
- Learning observations/drop ins (subject lead, year/phase lead and SLT)
- CPD for all staff
- Governors
- Recent successes
- Next steps

## **Hove Learning Federation Impact**

Children leave Hove Learning Federation as deeply knowledgeable and skilful learners who can set targets and believe in themselves to achieve them. They understand how to be socially, morally, spiritually and culturally responsible and aware. They are able to make positive contributions to the local and wider community and strive to be the best that they can be.

Learning Behaviours	Emotional	Names and expresses emotions Manages impulses of personal behaviour	Shows price in successes	Social 9 0 0	Focuses on learning in class Attentive to directions, listening to the teacher	Shows empathy and appreciates diversity	Cognitive	Organises time and space for own learning Sets goals and monitors	Talks purposefully with peers, valuing other opinions
Attitudes to Learning	Love of Learning and lifelong learners	Positive	Curious and Inquisitive	Independent	Able to work in teams	Motivated and Hardworking	Resilient	own progress Proud	Ready for secondary school
Quality of Education	Evidence of learning	Attainment	Progress	Skills, knowledge and understanding	Personal Development	Relationships between pupils and staff	Learning atmosphere and environment	Professional Development	School Improvement





## Pupil Book Studies – Subject Reviews & Shallow Splashes

At HLF, we have created our own monitoring systems that incorporate the key principles from the Pupil Book Study.

Flip/PowerPoint and planning look	<ul> <li>Planning for small steps</li> <li>Progress and learning over time</li> <li>Knowledge and skills based</li> <li>Child centred, active learning</li> <li>Consistency with the use of the HLF Learning Model across year groups and sites</li> </ul>
Book Look	<ul> <li>Shows progress of knowledge and skills</li> <li>Shows development of learning and understanding</li> <li>Demonstrates a clear sequence of learning</li> <li>High expectations, consistency and pride in work</li> </ul>
Pupil Voice	<ul> <li>Use precise vocabulary</li> <li>Show a deep understanding of the learning</li> <li>Are enthusiastic about their learning</li> <li>Talk through the learning sequence</li> <li>Highlight how the learning builds lesson to lesson and unit to unit</li> </ul>

'Implementation'). They are called Subject Reviews and Shallow Splashes. Through this form of monitoring, we quality assure each subject by carrying out:

- 1) Learning walks subject teams and SLT support teaching and learning and record positives and good practice to share and inspire
- 2) Flip/PowerPoint and planning looks to check planning & resources meet the needs of all of our learners. We check against our lesson model, Rosenshine's Principles of Instruction and the key theories & research that underpin our teaching philosophy
- 3) Book looks to check for incremental small steps, sequencing, task design, scaffolds, personalisation, knowledge & skill progression, vocabulary, access, support & challenge
- 4) Pupil voice to discuss the learning and see the subject through the eyes of the child. Part of our questioning is designed to assess the impact of our lessons, that they provide enjoyment, that children can articulate their learning with key vocabulary and that learning is 'sticking' in the children's long-term memory

Findings from our monitoring systems are categorised into positives and next steps. These can be specific to year group, to key stage or whole school (across the 3 sites). To ensure next steps are acted on, subject and year teams identify actions and assign responsibility. This monitoring feeds into our subject analysis and action plans (see 'Subject analysis and Action plans' below).

### **Subject Meetings**

Subject team meetings are timetabled regularly throughout the year. Time is set aside during staff meetings, INSET days and yearly meetings with SLT. The aims of these meetings are to:

- Review current practise and impact
- Set targets, identify actions, and create plans
- Discuss the latest research and evidence to ensure our subjects are up to date and plans are in place to progress
- Work towards our school key priorities
- Give time to professional development and to offer support to our teachers





### **Subject analysis & Action plans**

Each subject has an action plan for the academic year to monitor change and progress across a variety of objectives and goals within multiple areas (e.g., student, classroom, professional development, etc.). Using our school key priorities as a guide, our teams review and RAG their subjects throughout the year and set new targets each term. Each target is a story arc that shows how a subject leader has identified a next step, actioned it and reviewed the impact so that subject development is continuous and effective.

Each subject team uses the table below to reflect, plan, set actions, assess impact and discuss next steps.

What did you notice?	Action	Intended Impact	Responsibility	Ву	Evidence for
(Why did you set this target?)	(What will you do?)	(What will this look like?)		when	Monitoring

### **Formative and Summative assessments**

Our assessment structures are designed to ensure that our children will know more, remember more and be able to do more. A mixture of formative and summative assessments allows us to evaluate if our curriculum helps or hinders the goal of achieving persistent change in the long-term memory of our children.

#### **Formative Assessment**

We assess formatively throughout each lesson using our learning model (see 'Implementation' section). This tool ensures each lesson is planned and delivered to maximise assessment opportunities. Teachers use this information to support, challenge and adapt the learning.

Each subject assesses in a range of different ways (see 'Implementation' section).

#### **Summative Assessment**

Our curriculum is a progressive, spiral model. Teachers use deliberate summative assessment to measure if children are making progress as they journey through the curriculum. The range of summative assessment methods that teachers use build a picture of children's understanding of:

- Content and knowledge
- Use of vocabulary
- Ability to access the curriculum and thrive

All information gained from assessments are used to tailor, target and adapt future planning, teaching and learning.

### **Continuous Professional Development for all Staff**

'High quality teaching improves pupil outcomes, and effective professional development offers a crucial tool to develop teaching quality and enhance children's outcomes in the classroom.' - EEF

Through each element of the monitoring process described above and assessments, subject leads know how well their subject is being taught and areas for development. As a result, staff meetings and inset days are carefully considered to provide a range of tailored CPD opportunities guaranteeing consistency of expectations and practice, and ensuring the highest quality teaching is taking place to improve pupil outcomes. The content of this CPD is then factored into year group meetings for year group teams to explore further over time.

As a school, we use a range of development methods to meet the needs of our staff. This includes:

- 1:1 using mentoring or coaching
- Guided collaborative group work
- Use of research based think pieces
- Professional modelling

### Governors

Our governors are with us on every step of our curriculum journey. They are critical friends who ask key questions, investigate patterns within the data, and support and challenge our reasoning when creating systems and devising new strategies. Subject teams are given opportunities to feedback to governors about their subject development and planned next steps. The purpose of this close relationship is to ensure governors have an in-depth understanding of what is happening in the classrooms so that they can play an active role in school development. SLT work closely with governors so that there is a shared understanding of how high quality teaching is improving pupil outcomes at Hove Learning Federation and that these successes are celebrated.