DESIGH AND TECHNOLOGY IMPLEMENTATION AND CURRICULUM PROGRESSION



Design and Technology Implementation and Progression at Black Horse Hill Infant School



Vocabulary and Reading Development	Inclusion	Assessment
Spoken language is promoted in all lessons for all children	All children will be given the same task because we believe	Prior knowledge/retrieval opportunities are included at the
including strategies such as: no hands up , explicit teaching	in teaching a mastery approach across all subject areas and	beginning of units of work so that planning can be
of vocabulary, modelled thinking and use of vocabulary by	equal access for all.	adapted/amended to support gaps or misconceptions.
the teacher, think, pair, share, my turn-your turn, Talk	Quality first teaching for all children	Clear sequence of lessons which identify the key knowledge
Partners, Sentence Stems	Teacher modelling and scaffolded practice for all children.	that children need to know at the end of a lesson/unit of
	Focus groups with adult support for children needed further	work.
Reading is promoted wherever possible and wider texts are	support	
used to deepen knowledge across all subject areas.	Pre-teach sessions	Children's work
	Talk partners to build confidence	
	Now and next boards to support completion of tasks Intervention	
	External advice sought to support inclusion	
Retrieval practice (Knowing more and	Cultural Capital opportunities	British values and SMSC
remembering more)		
Expectations for classroom working walls.	Trips- Port Sunlight Village, School Art Exhibition	In DT, children experience the freedom to express
Revisit sessions	Visiting artists	themselves as individuals in the choices they make when
Retrieval/fluency sessions	School assemblies: Remembrance, Gun Powder plot	creating their designs. (Individual Liberty)
Knowledge organisers published versions and class	Significant figures- different artists taught in each year and	They will understand that it is not always possible or right to
knowledge organisers	revisited to build knowledge.	have their own way and understand the value of
	Experiences-	compromise (Democracy). Through DT they will accept and
		tolerate ideas that are different than their own, The children
		will understand the importance of safety rules when using
		tools and understand that if these rules are not followed
		that there are consequences to this (Rule of law).
		To offer supportive comments in evaluations that will
		improve learning outcomes in a way that is objective but
		sensitive to the listener (Mutual Respect).



Black Horse Hill Infant School DT Curriculum Progression Map

 develop their ideas about how to use them and what to make. Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different tools for different purposes. Uses different tools for different purposes. Uses various construction materials e.g joining pieces, stacking vertically, horizontally, balancing. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve designs and structures that have been made. Evaluate designs and review as they try to achieve a goal. Improve d		Foundation 1	Foundation 2	Year 1	Year 2
Introduce the use of different tools Safely use and explore a variety of Weaving		Explore different materials freely, to develop their ideas about how to use them and what to make. Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different textures Uses different tools for different purposes. Uses various construction materials e.g joining pieces, stacking vertically, horizontally, balancing. Evaluate designs and review as they try to achieve a goal. Improve designs	 Talk about their creations and explain the process that they have used. Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively, sharing ideas, resources and skills. Uses various construction materials e.g joining pieces, stacking vertically, horizontally, balancing. Evaluate designs and review as they try to achieve a goal. Improve designs and 	Through a variety of creative and practic: knowledge, understanding and skills nee designing and making. They should work example, the home and school, gardens industry and the wider environment]. Wi be taught to: Design design purposeful, functional, other users based on design of generate, develop, model and talking, drawing, templates, n information and communicati Make select from and use a range o practical tasks [for example, c select from and use a range o practical tasks [for example, c select from and use a wide rai including construction materia their characteristics Evaluate explore and evaluate a range evaluate their ideas and pro Technical knowledge build structures, exploring he more stable explore and use mechanisms axles], in their products Cooking and nutrition As part of their work with food, pupils sh the principles of nutrition and healthy ea will also open a door to one of the great how to cook is a crucial life skill that enal affordably and well, now and in later life. In KS1 pupils should be taught to: use the basic principles of a here 	ded to engage in an iterative process of in a range of relevant contexts [for and playgrounds, the local community, hen designing and making, pupils should , appealing products for themselves and riteria d communicate their ideas through nock-ups and, where appropriate, ion technology f tools and equipment to perform cutting, shaping, joining and finishing] nge of materials and components, als, textiles and ingredients, according to e of existing products oducts against design criteria ow they can be made stronger, stiffer and s [for example, levers, sliders, wheels and hould be taught how to cook and apply thing. Instilling a love of cooking in pupils expressions of human creativity. Learning bles pupils to feed themselves and others
Autumn Term and materials used for DT for example materials to create own designs.	Autumn Term	Introduce the use of different tools and materials used for DT for example	Safely use and explore a variety of materials to create own designs.	Weaving	Exploring Honey Fun Food Chef End of unit outcome

resourc Childre resourc Explore availab Initiate adult su Build it structu	ng tape, and scissors. Tools and ce es modelled to children. en begin to select tools ces for different purposes. e construction materials ole in Continuous provision. e own designs and refine with support. t up: Children learn about ures and materials. en build bridges	 Explore construction materials available in Continuous provision. Create houses using junk modelling materials and have the opportunity to refine and improve designs. Making healthy vegetable Soup Be introduced to basic food hygiene and the importance of handwashing. To name different vegetables and know where they grow. To know that vegetables contribute to a healthy diet. Recognise how to peel and chop vegetables and that the components make end product. To say whether they like or dislike the soup and how it can be made better. 	 The children will design and make a woven decoration that can hang on a wall tree. National Curriculum links (see above) The children will learn: What Design and Technolgy is. What weaving is and how it is used in different countries How to apply a weave technique How to design and make a woven decoration that meets a design brief To generate, develop, model and communicate their ideas through talking and making. To select materials/textiles. To reflect on their design and evaluate success 	 The children will design and make a meal with the Fun Food chef based around Honey. National Curriculum links (see above) The children will learn: Know about the importance of hygiene in food preparation. Recognise that some people have allergies and this can influence food preparation. Know that a range of tools and equipment can be used in food preparation, e.g. slicing, chopping, cutting, rolling, kneading, shaping. Select a range of ingredients according to their characteristics to mix together to make food containing honey. Use the basic principles of a healthy and varied diet. To begin to recognise that there are different food groups. Understand where food comes from To name foods that are nutritious and healthy and why they are important for a balanced diet. Evaluate and critique their cooking and meals and say how it could be improved.
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Vocabulary	Glue spreader, sellotape, masking tape, glue stick, glue, scissors, stick, join, plan, build, design, cut, fold, strong, weak	Design, create, make, evaluate, join, stick, model, strong, stable. Ingredients, mix, stir, change, cut, slice.	Design and Technology, design, design brief, weaving, loom, yarn, product	Movers and Shakers – William Morris – Port Sunlight Trip Textiles - Make copper tiles using natural physicals such as leaves, pinecones, trees etc to design a pattern for copper tile. Emboss the tile with pattern. Weigh, measure, chop, peel, slice, cut, roll, and knead, vegetables, food groups, nutrition, hygiene, safety, mix, honey. Design, product, design criteria, drawing, pattern, evaluate.
Spring Term	Introduce the use of different tools and materials used for DT for example glue sticks, glue spreaders sell tape, masking tape, and scissors. Tools and resources are modelled to children. Children begin to select tools resources for different purposes. Explore construction materials available in Continuous provision. Children to make their own instruments selecting and choosing appropriate materials.	Safely use and explore a variety of materials to create own designs. Investigate joining techniques Build their own models using recycled materials. Create models collaboratively sharing ideas and resources.	 Introduction to Sculpture End of unit outcome The children will create a Woodland Sculpture using Manmade and Natural materials. National Curriculum links (see above) The children will learn: What a sculpture is and recognise sculpture in different environments. The difference between a manmade and natural sculpture. How to creatively join, stack, sort, shape, connect and mould materials to make sculptures. To design and make a sculpture that meets the requirements in a design brief To reflect and evaluate their designs. To learn about the work of Andy Goldsworthy. 	 Cut, Stitch and Join End of unit outcome The children will create a bag tag using sewing techniques to join fabrics. National Curriculum links (see above) The children will learn: To explore and evaluate a range of existing products Select from a range of tools and equipment to perform practical tasks. To learn how to complete a basic running stitch to join fabric. Select from a range of materials to design and make their own product. Bog Baby Sculptures Design a Bog baby using drawing and labeling. Combine ingredients to make a malleable material. Use different components to create their design. Evaluate the end product and identify how it could be improved.

Vocabulary	Glue spreader, sellotape, masking tape, glue stick, glue, scissors, stick, join, plan, build, design, cut, fold, strong, weak Introduce the use of different tools	Design, create, make, evaluate, join, stick, model, strong, stable Safely use and explore a variety of	Design, plan, sculpture, sculptor natural, man-made, structure, connect, join material	Design, criteria, fold, join, material, sew, running stitch, needle, thread, cut, stick, evaluate, improve.
Summer Term	 and materials used for DT for example glue sticks, glue spreaders sellotape, masking tape, and scissors. Tools and resource are modelled to children. Children begin to select tools resources for different purposes. Select tools and materials to create own designs. Explore construction materials available in Continuous provision. 	materials to create own designs. Investigate joining techniques Create a rooftop garden using materials inspired by Errol's garden. Weaving using textiles. Design and make animal masks.	 Food Technology End of unit outcome The children will create a healthy layered dessert. National Curriculum links (see above) Design purposeful, functional, appealing products for themselves and other users based on design criteria. To generate, develop, model and communicate their ideas through talking and making. select from and use a range of tools and equipment to perform practical tasks for food preparation. select from and use a wide range of materials and components/ingredients, according to their characteristics To understand the basic principles of a healthy and varied diet to prepare dishes. To reflect and evaluate their design Moon Zoom! Design and make a model spaceship or rocket using a variety of junk materials.	 Mechanisms- Moving Pictures End of unit outcome The children will create a moving picture using mechanisms. National Curriculum links (see above) The children will learn: Explore types of mechanisms and how they work. Understand and identify levers, linkages, pivots Generate a design for a moving picture according to a brief. To reflect and evaluate their design

			join their structures, using taping, gluing and tying. Explore ways of making a structure sturdier so that it can stand alone.	
Vocabulary	Glue spreader, sellotape, masking tape, glue stick, glue, scissors, stick, join, plan, build, design, cut, fold, strong, weak	Design, make, evaluate, materials, joining, weaving, gluing.	Design, make, prepare, chop, slice, healthy, evaluate, structure, strong, stable, stiff, properties, materials, product.	Design, evaluate, make, lever, pull, push, stronger, stable, pivot. Mechanism, pivot, fixed point, movement, arch, strong, stiff, components, one direction, opposite direction, linkage, fixed base pivot, moving pivot.

DT Lesson Structure

Long Term Memory (Retrieval)

Review and revisit previous knowledge-make links to knowledge from previous lesson, unit, term, year.

Amend future future planning to incorporate and gaps in knowledge.

Introduce new knowledge

Teacher introduces vocabulary and new knowledge in small steps to the children making links to prior learning.

Teachers will provide modelling of the new DT technique or skill.

Developing the Knowledge

Children will refine and practise the new technique or skill required.

Applying the Knowledge

Children will apply the technique/skill to complete a DT project or product.

Review-has learning been successful?

Teachers and children will review and evaluate their DT product against the design criteria.