DT Overview



Design and Technology is part of every child's immediate life experience. The subject encourages children to become creative problem-solvers, both as individuals and as part of a team. It enables them to identify needs and opportunities and to respond by developing ideas, and eventually making a range of products. Through the study of design and technology, they combine practical skills with an understanding of aesthetic, social and environmental issues, as well as of the products functions. This allows them to reflect on, and evaluate, past and present design and technology. Design and technology helps all children to become discriminating and informed consumers and potential innovators.

	Autumn	Spring	Summer		
EYFS	Many skills taught across the seven areas of learning from Birth to Five Matters are prerequisite skills for DT within the National Curriculum. The most relevant statements for skills to build upon for DT within the National Curriculum are taken from the following areas of learning:				
Range 5	Personal, Social and Emotional Development:				
36 – 48	-Shows their confidence and self-esteem through being outgoing towards people, taking risks				
months	and trying new things.				
	Physical Development:				
	-Creates lines and circles pivoting from their shoulder and elbow.				
	- Manipulates a range of tools and equipment in one hand, tools include paintbrushes,				
	scissors, hairbrushes, toothbrushes, scarves and ribbons.				
	- Takes practical action to reduce risk, showing their understanding that equipment and tools				
	can be used safely.				
	Understanding The World:				
	- Talks about why things happen and how things work.				
	- Shows an interest in technological toys with knobs and pulleys, real objects and touchscreen				
	devices.				
	- Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as				
	sound, movements or new images.				
	Expressive Arts and Design:				
	- Uses various construction materials, e.g. joining pieces, stacking vertically and horizontally, balancing, making enclosures and creating spaces.				
	- Uses tools for a purpose.				
	- Uses available resources to create props or creates imaginary ones to support play.				
Range 6	Personal, Social and Emotional Development:				
48 – 60	-Can describe their competencies, what they can do well and are getting better at.				
months	-Shows confidence in choosing resources and perseverance in carrying out a chosen activity.				
	Physical Development:				
	-Shows increasing control over an object.				
	- Uses simple tools to effect changes to materials.				
	- Handles tools, objects, construction and malleable materials safely and with increasing				
	control and intention.				
	- Describes a range of different textures and tastes when cooking and notices changes when				
	they are combined or exposed to hot and cold temperatures.				
	- Shows understanding of how to transport and store equipment safely.				

	Expressive Arts and Design:				
	- Uses their increasing knowledge and understanding of tools and materials to explore their				
	interests and enquires and develop thinking.				
	- Develops their own ideas through experimentation with diverse materials.				
	- Creates representation of both imaginary and real-life ideas, events, people and objects.				
ELG	Personal, Social and Emotional Development:				
	-Explain the reasons for rules, knows right from wrong and try to behave accordingly.				
	- Be confident to try new activities and show independence, resilience and perseverance in				
	the face of challenge.				
	Physical Development:				
	-Use a range of small tools, including scissors, paint brushes and cutlery.				
	Expressive Arts and Design:				
	- Safely use and explore a variety of materials, tools and techniques, experimenting with				
	colour, design, texture, form and function.				
	- Share their creations, explaining the process they have used.				
	Textiles	Mechanisms	Food Technology		
Year	(Templates and joining)	(Sliders and Levers)	(Preparing fruit and veg)		
	Puppets	Moving Minibeasts	Fruit & Veg Kebab		
1	Parents workshop				
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Voor	Mechanisms	Structures	Food Technology		
Year	(Wheels and axles)	(Freestanding Structures)	(Preparing fruit and veg)		
	Making a space buggy for Neil	Designing an animal	Making a smoothie		
2	Armstrong	enclosure			
	Vehicles	Parent workshop			
\/	Mechanisms	Structures	Food Technology		
Year	(Levers and Linkages)	(Shell Structures)	Making a healthy wrap		
	Christmas Card	Design a package for a footba	II - Kitchen staff to		
3	<u>Parents workshop</u>	for the World cup	support.		
Year	Textiles	Electronics	Food Tech		
i Cai	(2D Shape to 3D product)	(Simple circuits and	Healthy & Varied diet Designing and selling a healthy		
1	Tic Tac Toe game <u>Parents workshop</u>	switches) Creating a night light	snack shop		
4	raichts workshop	Creating a riight light	Shack shop		
	Electronics		Food Tech		
Year	(Combining different fabric shapes)		Creating a scone for afternoon tea		
	Structures		with parents.		
5	(Frame Structures)				
<u> </u>	Engineering project				
	Floatussiss	Tauk!!	Food Took		
Year	Electronics CAD	Textiles (Combining different fabric	Food Tech		
i Cai	Tinker cad – Recreate the	shapes)	Creating a healthy muffin.		
6	Engineering project	Drawstring Bag			
6	Linging project	Parent workshop			
	l	I dient workshop			