



Design and Technology

Long Term Whole School Overview

Design and Technology Overview			
	Autumn	Spring	Summer
Nursery 2-3 Topic	My Day Autumn 1 What's in the garden? Autumn 2	Our Pets Spring 1 Farm Animals Spring 2	Making Music Summer 1 Musical Stories Summer 2
Term and Focus	Building through exploration	Becoming independent in the classroom	Beginning to Construct
Prior Learning	New Learning	Nursery 2-3 Autumn Children are introduced to new construction toys that the children may not have played with before.	Nursery 2-3 Autumn Children have been exploring the classrooms and have been familiarising themselves with a variety of construction toys such as stacking blocks and lego.
Future Learning	Nursery 2-3 Children will continue to explore and investigate how to use toys in their environment.	Nursery 2-3 Summer Children will continue to explore and investigate how to use toys in their environment	Nursery 3-4 Spring Children will begin to investigate how to use tools in their play when creating structures.
Nursery 3-4 Topic	Marvellous Me Autumn 1 What's on Wood Street? Autumn 2	People Who Help Us Spring 1 Our Garden Spring 2	Little Explorers Summer 1 Let's Pretend Summer 2
Term and Focus	Constructing through stacking	Manipulate materials using a range of tools.	Develop and build upon knowledge of how to join different materials together
Prior Learning	Nursery 2-3 Summer Children have been introduced to stacking toys.	Nursery 3-4 Autumn Children have had experience with construction toys.	Nursery 3-4 Spring Children have been using tools to explore how to begin joining materials together.
Future Learning	Nursery 3-4 Spring Children will begin to use tools in their play to support construction play.	Nursery 3-4 Summer Children will continue to deepen their understanding of how to use tools.	Year R Autumn To use the knowledge and skills they have gained to start creating free standing structures.
Year R Topic			
Term and Focus	To be able to create a free-standing structure	To know what tools are and how to use them.	To build on existing knowledge to use tools accurately and independently.
Prior Learning	Nursery 3-4 Summer Children have begun experimenting with using different tools to join materials together.	Nursery 3-4 Summer Children have experienced using a limited range of tools.	Year R Spring Children have a broader experience of using a variety of tools that may be used to join objects with support from an adult.
Future Learning	Year R Spring To start to use tools to help make free standing structures in the junk modelling area.	Year R Summer To develop how to use tools to help make free standing structures in the junk modelling area.	Year 1 Autumn To make bridges
Year 1 Topic			

Term and Focus	Autumn Frame Structures – building a chair for a soft toy	Spring Slider Mechanisms – designing a greetings card with a slider mechanism AND Lever Mechanisms - designing, making and evaluating a litter grabber	Summer Cooking – making a portable snack
Prior Learning	Year R Summer Children have a broad experience of creating free standing structures.	Year R Spring Children have had experience of using tools for a purpose.	Year R Spring Children have had some experience with following instructions to make a structure or to follow a recipe to create bread.
Future Learning	Year 3 Spring Shell Structures - cardboard chair Year 5 Autumn Arch Structures - building with an arch roof structure	Year 4 Summer - Linked Levers: making a fold-away safety barrier	Year 2 Spring – making a couscous salad Year 3 Summer - making a hot meal (vegetable soup) Year 4 Autumn - preparing a starter course for a party (hummus dip) Year 5 Spring – make bread rolls Year 6 Summer - A Meal for a Hero
Year 2 Topic			
Term and Focus	Autumn Wheels and Axle Mechanisms - designing, making and evaluating a wind-powered vehicle	Spring Cooking - Designing making and evaluating a quick, nutritious and inexpensive meal (couscous salad)	Summer Textiles - Designing, making and evaluating an animal hand puppet
Prior Learning	Year 1 Autumn – frame structures Y1 Spring Slider Mechanisms – greetings card with a slider mechanism AND Lever Mechanisms - designing, making and evaluating a litter grabber	Year 1 Summer – making a portable snack	New learning (Fine motor skills in Reception/Y1)
Future Learning	Year 6 Autumn - Pulleys and Gears: designing, making and evaluating an aerial tramway (cable car)	Year 3 Summer - making a hot meal (vegetable soup) Year 4 Autumn - preparing a starter course for a party (hummus dip) Year 5 Spring – make bread rolls Year 6 Summer - A Meal for a Hero	Year 6 Spring - Textiles: T-shirt with embroidered letters
Year 3 Topic			
Term and Focus	Autumn Paper Circuits - designing, making and evaluating a paper circuit greetings card	Spring Shell Structures - designing, making and evaluating a cardboard chair	Summer Cooking : preparing a quick, nutritious and inexpensive hot meal (vegetable soup)
Prior Learning	New learning	Year 1 Autumn - Frame structures (building a chair for a toy)	Year 1 Summer - making a portable snack Year 2 Spring – making a couscous salad
Future Learning	Circuits in Y4 - (Science)	Year 5 Autumn – Arch Structures – Building with an arch roof structure	Year 4 Autumn - preparing a starter course for a party (hummus dip) Year 5 Spring – making bread rolls

				Year 6 Summer - A Meal for a Hero
Year 4 Topic				
Term and Focus	Autumn Cooking - preparing a starter course for a party (hummus dip)	Spring App Control - designing, making and evaluating a lifestyle helper	Summer Linked Levers - designing, making and evaluating a fold-away safety barrier AND Pneumatics - designing, making and evaluating a Pneumatic lifting device	
Prior Learning	Year 1 Summer - making a portable snack Year 2 Spring – making a couscous salad Year 3 Summer - making a hot meal (vegetable soup)	New learning	Year 1 Spring Slider Mechanisms – greetings card with a slider mechanism AND Lever Mechanisms - designing, making and evaluating a litter grabber Year 2 Autumn Wheels and Axle Mechanisms - wind-powered vehicle	
Future Learning	Year 5 Spring – making bread rolls Year 6 Summer - A Meal for a Hero	Year 5 Summer Mechanical systems – CAMS – Automaton toy	Year 6 Autumn - Pulleys and Gears: designing, making and evaluating an aerial tramway (cable car)	
Year 5 Topic				
Term and Focus	Autumn Arch Structures - designing, making and evaluating a building with an arch roof structure	Spring Cooking – making bread rolls	Summer 1 Mechanical systems – CAMS – designing and making an automaton toy	
Prior Learning	Year 1 Autumn Frame Structures – chair for a soft toy Year 3 Spring Shell Structures - cardboard chair	Year 1 Summer - making a portable snack Year 2 Spring – making a couscous salad Year 3 Summer - making a hot meal (vegetable soup) Year 4 Autumn - preparing a starter course for a party (hummus dip)	Year 4 Spring App Control - lifestyle helper	
Future Learning	End of unit	Year 6 Summer - A Meal for a Hero	End of unit / KS3	
Year 6 Topic				
Term and Focus	Autumn Pulleys and Gears : designing, making and evaluating an aerial tramway (cable car)	Spring Textiles : designing, making and evaluating a T-shirt with embroidered letters	Summer Cooking : Make a meal for £10 (A Meal for a Hero)	
Prior Learning	Year 1 Autumn – frame structures Y1 Spring Slider Mechanisms – greetings card with a slider mechanism AND Lever Mechanisms - designing, making and evaluating a litter grabber Year 2 Autumn Wheels and Axles - wind-powered vehicle	Year 2 Summer Textiles - animal hand puppet	Year 1 Summer - making a portable snack Year 2 Spring – making a couscous salad Year 3 Summer - making a hot meal (vegetable soup) Year 4 Autumn - preparing a starter course for a party (hummus dip) Year 5 Spring – making bread rolls	

	Year 4 Summer Linked Levers - fold-away safety barrier AND Pneumatics - Pneumatic lifting device		
Future Learning	Key Stage 3	Key stage 3	Key stage 3