



Marshland Primary Academy

Design and Technology Long Term Plan

If you would like more information about the Design and Technology curriculum we offer at Marshland Primary Academy, then please contact the school office.

Year Group	Autumn	Spring	Summer
	Autumn Term Two	Autumn Term Two	Autumn Term Two
Rising Threes	<p><u>Development Matters – Birth to three</u></p> <p>Physical Development</p> <ul style="list-style-type: none"> • Develop manipulation and control. • Explore different materials and tools. <p>Expressive arts and design</p> <ul style="list-style-type: none"> • Explore different materials, using all their senses to investigate them. • Use their imagination as they consider what they can do with different materials. 		
Nursery	<p><u>Development Matters – 3 and 4-year-olds</u></p> <p>Physical Development</p> <ul style="list-style-type: none"> • Choose the right resources to carry out their own plan. • Use one-handed tools and equipment. <p>Expressive arts and design</p> <ul style="list-style-type: none"> • Explore different materials freely. • Develop their own ideas and the decide which materials to use to express them. • Join different material and explore different textures. 		
Reception	<p><u>Development Matters – reception</u></p> <p>Physical Development</p> <ul style="list-style-type: none"> • Develop their small motor skills so that they can use a range of tools competently, safely and confidently. <p>Expressive arts and designs</p> <ul style="list-style-type: none"> • Return to and build on their previous learning, refining ideas and developing their ability to represent them. • Create collaboratively, sharing ideas, resources and skills. 		
Year 1	<p style="text-align: center;">Structures</p> <p style="text-align: center;">Existing Products: models of playground equipment such as a slide or a climbing frame</p> <p>Can children improve the playground by designing and making a piece of playground equipment?</p> <p style="text-align: center;">Link: Geography - My School in the Locality</p>	<p style="text-align: center;">Cooking and Nutrition</p> <p style="text-align: center;">Existing Products: healthy snacks made with fruit and vegetables</p> <p>What treats can children prepare for the street party using fruit and vegetables?</p> <p style="text-align: center;">Link: History – Marvellous Monarchs</p>	<p style="text-align: center;">Mechanisms – Wheels and Axles</p> <p style="text-align: center;">Existing Products: models of toy vehicles</p> <p>Can children make a model of something that moves on wheels?</p>



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Year 2	<p style="text-align: center;">Cooking and Nutrition Existing Products: healthy pasty Can children make a healthy pasty for a miner's snap tin? Link: Local History and Science</p>	<p style="text-align: center;">Mechanisms – Slider and Levers Existing Products: story books with moveable parts Can children create a moving scene to tell a part of the story of The Great Fire of London? Link: History – The Great Fire of London</p>	<p style="text-align: center;">Textiles Existing Products: variety of fabric puppets Can children make a monster puppet linked to The Secret of Black Rock? Link: English – The Secret of Black Rock</p>
Year 3	<p style="text-align: center;">Mechanical Systems - Levers & Linkages Existing Products: pop-up story books Can children create a pop-up facts book to teach others about the Stone Age? Link: History – The Stone Age</p>	<p style="text-align: center;">Cooking and Nutrition Existing Products: healthy soups Can children prepare and cook a healthy soup? Link: Science - Nutrition</p>	<p style="text-align: center;">Textiles – 2D to 3D Shape Existing Products: A range of purses with different fastenings What can children design and make to carry their own valuable object?</p>
Year 4	<p style="text-align: center;">Structures – Shell Structures Existing Products: a variety of boxes Can children create a structure to store trinkets?</p>	<p style="text-align: center;">Mechanical Systems – Pneumatics Existing Products: toys that use pneumatics to move parts How can children make the jaw of a monster open without touching it? Link: Science -Teeth & Eating</p>	<p style="text-align: center;">Electrical Systems – Simple Circuits and Switches Existing Products: night lights and reading lights What can children design to help them read at night? Link: Science - Electricity</p>
Year 5	<p style="text-align: center;">Mechanical Systems – Cams Existing Products: variety of toys, models using cams for moveable parts How can children create a moving scene for younger children to enjoy?</p>	<p style="text-align: center;">Structures Existing Products: Variety of bird houses Can children make a birdhouse suitable for a wildlife garden? Link: Science - Living things and their habitats</p>	<p style="text-align: center;">Mechanical Systems – Pulleys and Gears Existing Products: models of moving vehicles with pulleys and gears Can children make a moving vehicle using pulleys and gears?</p>
Year 6	<p style="text-align: center;">Cooking and Nutrition Existing Products: recipe books and prepared food from this period in history What meal can you prepare and cook using your rations? Link: History - WWII</p>	<p style="text-align: center;">Textiles - Accessories Existing Products: a range of cases with accessories and decorations Can you design and make a case for your own tablet or mobile phone?</p>	<p style="text-align: center;">Electrical systems - Monitoring and Control Existing Products: - a range of videos and pictures of fairground rides. Can children make a fairground ride using Crumble to control and move?</p>
As designers:	<p style="text-align: center;">The children will be encouraged to be creative when designing and making their own products that solve real problems. They will be taught to take risks, to evaluate and improve their own products and use a variety of skills that will prepare them for the world of work.</p>		