

## Statement of Intent

At Fairchildes, our intention is to provide opportunities for children to learn, apply and strengthen their skills in designing, making and evaluation of a product for a given purpose. The children design and make products that solve real problems within a variety of contexts.

Skills are taught progressively to ensure that all children are able to learn and practice in order to develop as they move through the school. Evaluation is an integral part of the design process and allows children to adapt and improve their product. This is a key skill for life.

It is our intent to provide the children with the confidence, knowledge and skills to be innovators and risk-takers who are not afraid of trying out new ideas.

‘A person who never made a mistake never tried anything new’.

(Albert Einstein)

## Design and Technology Curriculum Overview 2021-22

	Project -	DT Focus	Designers to study/ Job Link to discuss	Project-Mechanisms	DT Focus	Designers to study/ Job Link to discuss	Project: Textiles/Structures	DT Focus	Designers to study/ Job Link to discuss
1	Make a Perfect Pizza	<b>Aspect:</b> Food <b>Focus:</b> Healthy and varied diet See planning -making a pizza on Google drive Planned and delivered over a fortnight	Gino D’Acampo -celebrity chef- own pizza brand	Vehicles for story character/ toy	<b>Aspect:</b> Mechanisms <b>Focus:</b> Wheels and Axles Projects on a page 1 DAY CHALLENGE	Car designer- Franz Von Holzhausen- designed Telsa	Puppets to tell stories to Nursery	<b>Aspect:</b> Textiles <b>Focus:</b> Templates and joining techniques Projects on a page	Kermit Love-puppets for Muppets/ Sesame Street
2	Fruit and Veg party	<b>Aspect:</b> Food <b>Focus:</b> Preparing fruit and vegetables Projects on a page	Omari McQueen -11 year old- link to Boxpark - vegan caribbean chef	Sliders – Pop-up books	<b>Aspect:</b> Mechanisms <b>Focus:</b> Sliders and Levers Projects on a page	Keith Allen- paper engineer <a href="https://www.bestpopupbooks.com/m eet-keith-allen/">https://www.bestpopupbooks.com/m eet-keith-allen/</a>	Make a strong chair for baby bear / bridge for 3 bears/ playground equipment	<b>Aspect:</b> Structures <b>Focus:</b> Free standing Structures Projects on a page 1 DAY CHALLENGE	Arne Jacobson- egg chair

3	Make a bread based product sandwich or wrap	<b>Aspect:</b> Food <b>Focus:</b> Healthy and varied diet  <b>Projects on a page</b>	<b>Jamie Oliver</b> -chef-link to healthy school dinner campaign		<b>Aspect:</b> Mechanical systems <b>Focus:</b> levers and linkages <b>Projects on a page</b> <b>1 DAY CHALLENGE</b>	Corina Fletcher - paper engineer <a href="https://www.corinaandco.com/about">https://www.corinaandco.com/about</a>	purse/ phone holder	<b>Aspect:</b> Textiles <b>Focus:</b> 2D shape to 3D product  <b>Projects on a page</b>	Coco Chanel - bags/ fashion designer
4	Bread-bake off	<b>Aspect:</b> Food <b>Focus:</b> Healthy and varied diet <a href="http://www.stem.org.uk">www.stem.org.uk</a> <a href="https://www.bbc.co.uk/bitesize/clips/zrxd7ty">https://www.bbc.co.uk/bitesize/clips/zrxd7ty</a> <a href="http://www.schoolslinks.co.uk/det5b.pdf">http://www.schoolslinks.co.uk/det5b.pdf</a>	<b>Paul Hollywood</b> - famous for bread-junior bake off	Toy with rotating parts/ vehicle	<b>Aspect:</b> Mechanical Systems <b>Focus:</b> Cams  <b>Projects on a page</b> <a href="http://www.stem.org.uk">www.stem.org.uk</a>	Jacques de Vaucanson- French inventor of automatons.	Make a gift box /party box / treasure box	<b>Aspect:</b> Structures <b>Focus:</b> Shell structures <b>CAD</b>  <b>Projects on a page</b>	Bernard Sadow - suitcase design
5	Biscuits-savoury/ fruit/cereal snack for specific event/person	<b>Aspect:</b> Food <b>Focus:</b> Celebrating culture and seasonality  <b>Projects on a page</b> (Adapt so not yeast based product)	<b>-Baker Nadiya Hussain</b> - winner of Great British baker 2015	Electric powered item - nightlight./ siren for toy car	<b>Aspect:</b> Electrical Systems <b>Focus:</b> Simple circuits and switches  <b>Projects on a page</b> <b>1 DAY CHALLENGE</b>	Thomas Edison- invented light bulb  N.B. in academic year 2021-2022 year 5 will complete the year 4 mechanical systems project	Make a shelter	<b>Aspect:</b> Structures <b>Focus:</b> Frame structures  <b>Projects on a page</b>  <b>1 DAY CHALLENGE</b>	Gustave Eiffel- engineers - Eiffel tower
6	Marvelous Meals - come dine with me	<b>Aspect:</b> Food <b>Focus:</b> Healthy and varied diet  <a href="https://www.all-languages.org.uk/wp-content/uploads/2016/04/Come-Dine-With-Me-Project-Plan.pdf">https://www.all-languages.org.uk/wp-content/uploads/2016/04/Come-Dine-With-Me-Project-Plan.pdf</a>	<b>Heston Blumenthal</b> - experimental chef	Vehicles/Fairground rides	<b>Aspect:</b> Mechanical Systems <b>Focus:</b> Pulleys and Gears  <b>Projects on a page</b>	Iona Jost- theme park designer <a href="https://www.bbc.co.uk/news/uk-scotland-north-east-">https://www.bbc.co.uk/news/uk-scotland-north-east-</a>			

						<a href="#">orkney- shetland- 58308830</a>			
--	--	--	--	--	--	--	--	--	--