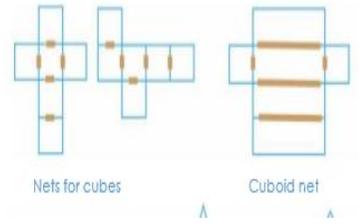


DESIGN & TECHNOLOGY UNIT OVERVIEWS 2020-2021

Developing, planning and communicating ideas		Can they show that their design meets a range of requirements? Can they put together a step-by-step plan which shows the order and also what equipment and tools they need? Can they describe their design using an accurately labelled sketch and words? How realistic is their plan?			
Working with tools, equipment, materials and components to make quality products		Can they use equipment and tools accurately?			
Evaluating processes and products		Can they explain what they changed which made their design even better?			
Autumn - Levers and Linkages		Spring - 2D shape to 3D shape		Summer – Shell Structures	
DT Skills	DT Content	DT Skills	DT Content	DT Skills	DT Content
Do they select the most appropriate tools and techniques to use for a given task? Can they make a product which uses mechanical components? Do they use the most appropriate materials? Can they work accurately to make cuts and holes? Can they join materials?	Create an objects such as a card, storyboard or display poster concentrating on exploring the four different ways to create a moving object – linear, reciprocating, rotary and oscillating.	Can they join textiles of different types in different ways? Can they choose textiles both for their appearance and also qualities?	Create an apron the children will use in school for art, DT or cooking. Technique – Running stitch and over sew stitch, back stitch and backwards running stitch.	Do they select the most appropriate materials? Can they use a range of techniques to shape and mould? Do they use finishing techniques? Do they use the most appropriate materials Can they work accurate to make cuts and holes? Can they join materials?	Create a money box using a net as a means to design their product.
					

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<u>Vocabulary</u>	<u>Vocabulary</u>	<u>Vocabulary</u>	<u>Vocabulary</u>	<u>Vocabulary</u>
<p style="text-align: center;"> Cut Stick Glue Join Design Materials Card Slider Lever Pivot Slot Bridge/guide Pull Push Up down Straight Curve Forwards Backwards </p>	<p style="text-align: center;"> Cut Join Textile Fold Measure Model Structure Fabric Felt Glue Staple Stitch – running, over sew back stitch and backwards running stich. Needle Thread Template Pattern Decorate Compartment </p>	<p style="text-align: center;"> Shell structure Three-dimensional Shape Net Cube, cuboid, edge, face, length, width. Capacity Scoring Tabs Joining Assemble Accuracy Material Stiff Strong Joining </p>		

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<p>Linkage Input Output Linear Rotary Oscillating Reciprocating Prototype</p>	<p>Template Seam Design</p>	
Helpful resources		
<p>https://www.bbc.co.uk/bitesize/subjects/z9r9wmn</p>	<p>https://www.bbc.co.uk/teach/class-clips-video/design-challenge-make-swimming-bag/zvdrkmn</p> <p>https://www.bbc.co.uk/bitesize/subjects/z9r9wmn</p>	<p>https://www.bbc.co.uk/teach/class-clips-video/design-challenge-making-packaging-soft-fruit-2d-3d-software/zr28qp3</p> <p>https://www.bbc.co.uk/teach/class-clips-video/design-and-technology-ks2-making-structures-stronger/z626hbk</p> <p>https://www.bbc.co.uk/bitesize/subjects/z9r9wmn</p>