



Design and Technology- Structures.

Year structures	product	Vocab	Skills spiral	Knowledge	Famous Technologist	Assessment
N	Home for the 3 pigs	join tower top make like/dislike	Explore children's own homes. Select pieces in a construction kit. Share their likes and dislikes.	Know how to join and stack.		
R	Junk model home for the 3 pigs	cut wall side ideas planning	Use and explore using a variety of tools. Use and select from a range of junk modelling. Experiment with colour, design and texture. Share their creations with others explaining what they have used and why..	Know how to cut and attach materials together. Know the function of the available tools. Know about a range of different houses.		
*Please see EYFS curriculum plans for further links to Structurrs in Nursery and Reception.						
Y2	Playground- swing or slide	fold, fix, structure frame, weak, strong, base, underneath, edge, surface, corner, straight,	Generate ideas. Communicate ideas through talking and drawing. Choose tools fit for purpose. Select new and reclaimed materials.	Know how to fix materials together. Know how to make playground equipment structures stronger, stiffer and more stable.		



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		curved, design, evaluate, user, purpose	Explore a range of existing playground equipment. Evaluate the product for the user.			
Y4	Gift box	shell structure, net, vertex, face, scoring, marking out, tabs, assemble, accuracy corrugating, laminating, font, lettering, graphics, design brief, design criteria, innovative, prototype, product research	Generate realistic ideas based upon design criteria thinking about the user and the purpose of the product. Develop ideas through evaluating existing shell structures and use computer aided design. Select appropriate tools to measure, mark out, cut, score and assemble. Use computer generated finishing techniques suitable for the product they are creating. Test and evaluate own product against the design criteria.	Develop knowledge of nets of cubes and cuboids. Develop knowledge of constructing strong and stiff shell structures.	Zaha Hadid	
Y5	bridges	frame structure, strengthen,	To carry out research into user needs and	Know about Isambard Kingdom Brunel's	Isambard Kingdom Brunel	



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		reinforce, triangulation, stability, design specification, annotated diagram, functional	existing bridges using web-based resources. Develop a simple design specification thinking about time, resources and costs. To generate and model ideas through prototypes and annotated sketches. Competently select from and use appropriate tools to accurately measure, mark out, cut and join. Investigate and evaluate a range of existing bridges. Evaluate their products against their design specification identifying strengths and areas for development and carrying out appropriate tests.	bridges and other famous bridges. Know how to strengthen, stiffen and reinforce 3 d frameworks.		
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Y6	Lighthouse	Cross sectional drawings	Cross sectional drawings Generate and model ideas prototypes and cross-sectional drawings.			
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