



SS John Fisher & Thomas More Catholic Primary School

A Voluntary Academy

"Journeying together with Jesus Christ, we learn to love and love to learn."



Medium Term Planning Creative Learning Journey

Year Group: 5	Topic: Construction – Space Mobile		Term: Spring 1
<p>National Curriculum Links (Ref: NC 2014)</p> <p><u>Design</u> ☑ use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups ☑ generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</p>	<p><u>Make</u> ☑ select from and use a wider range of tools and equipment to perform practical tasks ☑ select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</p>	<p>☑ <u>Evaluate</u> investigate and analyse a range of existing products ☑ evaluate their ideas and products against their own design criteria and consider the views of others to improve their work ☑ understand how key events and individuals in design and technology have helped shape the world</p>	<p>☑ <u>Technical knowledge</u> apply their understanding of how to strengthen, stiffen and reinforce more complex structures ☑ understand and use mechanical systems in their products ☑ understand and use electrical systems in their products ☑ apply their understanding of computing to program, monitor and control their products.</p>
Knowledge and Skills Objectives	Activity		Differentiation
<p><u>Lesson One</u></p> <p>I can use research to design a functional space mobile.</p>	<p>Provide children with various types of hanging mobile.</p> <p><u>Ask the children:</u> What will we need to include on our space mobile? What materials do you think we will need to use? How will we make the mobile?</p>		<p>Mixed ability pairs</p>



SS John Fisher & Thomas More Catholic Primary School

A Voluntary Academy

"Journeying together with Jesus Christ, we learn to love and love to learn."



Medium Term Planning Creative Learning Journey

	Children will draw and label their own space mobile design. Share ideas with the class.	
Lesson Two I can make a space mobile using a range of materials.	Children will use their sketches to make their space mobiles. The following video will be used as a guide: https://www.bbc.co.uk/cbeebies/makes/space-mobile-make <u>*Do not intervene too early. Let the children problem-solve and overcome any issues.</u>	Mixed ability groups (4 pupils in each group)
Lesson Three: I can evaluate my own work and the work of others.	Children will display their space mobiles in the classroom and conduct a gallery walk whereby they will state two things that they like and one thing that could be improved on each group's space mobile.	N/A
Applied Write Opportunities: Diary entry – First Man on the Moon		
Key Vocabulary Tier 2: diagram, label, make, structure, design, equipment, material, evaluate, space mobile, sketches Tier 3: function, innovative, appealing, annotated, construction		