



DT Medium Term Planning Sheet 2020/2021

Year 2	Term 4	Unit title – Space Rockets/Luna Vehicles	
Brief description of main content of this unit: Research, evaluate products, develop skills, design and make a plane. Evaluate final product.			
Lesson No.	Key Learning Objectives Linked to National curriculum (differentiated)	Activities & Teaching & Learning strategies (including assessment opportunities)	Cross curricular links
1	<p>To investigate lunar rovers and their components</p> <p>LO : To investigate and research</p> <p>ALL must name parts of a lunar rover MOST should label parts of a plane on an actual diagram of a lunar rover SOME could the technical names for parts of a lunar rover.</p>	<p><u>HISTORY & RESEARCH</u> History of Apollo missions</p> <p>http://www.spacekids.co.uk/learn/ https://www.youtube.com/watch?v=5cKpzp358F4 https://www.youtube.com/watch?v=refX-SHBYac https://www.youtube.com/watch?v=IO_B7CT_-Cs&list=PLD88647D26A3126A4 http://www.armaghplanet.com/blog/nasas-lunar-rover-everything-you-need-to-know.html</p> <p>Who were pioneers? Why visit the moon? Types of spacecraft? Evolution from Mercury to Apollo. Looking at design of lunar rovers, how did they transport them to the moon? Videos</p> <p>Task - draw a moon buggy and label. Vocabulary sheet for LA's</p>	<p>English - speaking/listening Art - drawing History English - speaking/listening Art - drawing History</p> <p><u>RESOURCES</u></p> <p>Vocabulary sheet</p>
2	<p>To explore wheels through play</p> <p>LO : To explore and research</p> <p>ALL must make a wheel move on an axle</p>	<p><u>RESEARCH - PRACTICAL</u> https://www.youtube.com/watch?v=aCBViZITQTW</p> <p>Wheels - Can anyone remember the type of wheels the LR has? What do they do? How do they move? What helps them move? How does the thickness of wheels effect how it travels on moon surface?</p>	<p>English - speaking/listening Art - using a variety of media</p> <p><u>RESOURCES</u> Cotton reels, dowel (cut) clothes pegs, paper sticks,</p>



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	<p>MOST should make a wheel move and name some of the components SOME could make a wheel move and name all the components.</p>	<p>Task - children explore attaching wheels to axles and securing them BUT allowing them to move, lego/knex, experiment with different surfaces and wheel thicknesses Take photos for Topic Books</p>	<p>paper straws, card discs, MDF wheels Lego - wheels etc Card axle holders</p>
3	<p>To develop ideas through drawings</p> <p>LO: To design</p> <p>ALL must design their own lunar rover with wheels MOST should label their rover with correct terminology for parts SOME could do the above and make a list of what is needed to make their lunar rover</p>	<p>DESIGN</p> <p>Can you design your own lunar rover? What would be important? LIST as a checklist CT show what would be needed (focusing on wheels/axles/what will hold axle/chassis) What sort of wheels would work best? (which is what a designer would be thinking) CT show own design, labelled and what needed Task - Design lunar rover, label and list what need to make it (LA) CT help with how to draw, what to include</p>	<p>English - speaking/listening Art - drawing</p>
4	<p>To use a range of materials and their design to make their lunar rover.</p> <p>LO: To make</p> <p>ALL must make a lunar rover with moving wheels MOST should attach wheels to axle through axle holders and attach to chassis with support SOME could do the above independently,</p>	<p>MAKING</p> <p>Task - Begin to make lunar rover. Begin with chassis (egg box/cereal box flattened) and fixing wheels to axle with axle holders. Then build up using recycled materials. Keep reminding children to look at their designs to see what to do next.</p> <p>CT take photos for Topic books</p>	<p>English - speaking/listening Art - using a variety of media</p> <p>RESOURCES Recycled boxes, masking tape, glue gun, card and all above equipment (from 2 weeks ago)</p> <p>Silver paint - needed at some point</p>
5	<p>To use a range of materials and their design to make their lunar rover.</p> <p>LO: Make</p>	<p>MAKING</p> <p>Task - Complete making task, photograph</p>	<p>As above</p>



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	<p>ALL must make a lunar rover with moving wheels</p> <p>MOST should attach wheels to axle through axle holders and attach to chassis with support</p> <p>SOME could do the above independently,</p>		
6	<p>To evaluate their finished product</p> <p><u>LO : To evaluate</u></p> <p>ALL must say what went well with their rover</p> <p>MOST should say what they would change about their plane</p> <p>SOME could to make references to their design in their evaluation.</p>	<p><u>EVALUATION</u></p> <p>Continue from last week (if need to finish)</p> <p>Look at each other's rovers. Share what they like about each other's and what they would change.</p> <p>Task - fill in evaluation sheet about their rovers.</p>	<p>English - speaking/listening</p> <p>Art - using a variety of media</p>