



Unit Planner – Design Technology Year: 2 Title: Building a Moving Vehicle

Unit Overview	In Geography, children will compare England and Mombasa. They will learn that moving vehicles are made of different materials and components. They will design and build a moving vehicle with an axle and chassis.	
Prior Learning/ Links	EY – Around the World topic – different vehicles: Design a vehicle and build using Lego YR1 – Moving books – Knowledge of lever, slider and wheel mechanisms/Science materials	
Unit Title:	Substantive Knowledge	Disciplinary Knowledge
Key Questions: Which is the most effective axle? How would you attach the wheels? Why is it important to measure before putting components together?	<ul style="list-style-type: none"> • Vehicles are made of different materials and components. • Know how to describe in simple terms how a vehicle works. • Know why vehicles can be useful. • Know that for the parts to move they need an axle/chassis and wheels. • Children can choose their own equipment needed for their design. • Know what tools can be useful to make a toy vehicle. • Can say what is needed for the product to be good quality – materials, joining, presentation. • Children can talk about making things stronger, thicker, stiffer or other technological features of a design. 	Critical Evaluation To investigate current products in a practical way. To learn about famous inventors and the products they invented and why. Purpose/ Audience or Design Develop a clear idea of purpose and audience Design a product using simple sketches and explanations To present ideas to others using sketches and discussions Making/ Technological Knowledge <ul style="list-style-type: none"> • Selecting tools and materials appropriate for tasks. <ul style="list-style-type: none"> - Explain choices made to construct a product based on characteristics • Make product stronger, stiffer and more complex • Safety and accuracy
Vocabulary	Trips/ Visits/Useful Websites/ Resources	Key Misconceptions:
Substantive: Axle Axle Holder Chassis Wheels Friction Dowel Steering Mechanism Disciplinary: Research Assemble	https://www.youtube.com/watch?v=0ppJ9dAddCU A Brief History of Jeep https://www.youtube.com/watch?v=H_JWvA_ZDFw Safari Jeeps in Africa	That wheels can be glued straight onto sides of the vehicle. Understanding the role and importance of the axel in aiding the vehicle moving.



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<p>Design features Measure Mark out testing cut and shape evaluate purpose and audience sawing joining finishing Observation Drawing modelling</p>		
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