

## Year 2 Alderman's Green Design Technology – Autumn Term 2022

Key Stage 1	Year 2	
	Practical skills, techniques and technical knowledge	Context
Tools and Joining	Cut wood/dowel using a bench hook and hack saw  Join appropriately with glue or tape and in different situations (e.g frame, axle, chassis)	Aut2 (Wheels and Wings) <b>Design, Make, Evaluate:</b> <i>To design and make a....</i> - vehicle of the future - vehicle for a character (from a text the children are familiar with)  <b>To design and make a moving toy.</b> (After looking at toys with wheels and wings - could be made for a specific person therefore would need to research what that person likes or pick an age range - i.e child in reception and go and ask what programmes /characters they like)
Mechanisms	Create and use wheels and axles	
Structures	Improve structures by making them stronger, stiffer and more stable	
Vocabulary	vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria, functional	
Questions to support with planning and assessment	<b>Developing, planning and communicating ideas:</b> <ul style="list-style-type: none"><li>• Can they think of ideas and plan what to do next?</li><li>• Can they choose the best tools and materials? Can they give a reason why these are best?</li><li>• Can they describe their design by using pictures, diagrams, models and words?</li></ul> <b>Working with tools, equipment, materials and components to make quality products:</b> <ul style="list-style-type: none"><li>• Can they join things (materials/ components) together in different ways?</li></ul> <b>Evaluating processes and products:</b> <ul style="list-style-type: none"><li>• Can they explain what went well with their work?</li><li>• If they did it again, can they explain what they would improve?</li></ul> <b>Mechanisms:</b> <ul style="list-style-type: none"><li>• Do they know the difference between fixed and free moving axels?</li><li>• Do they know simple methods to fix wheels and axels to a product?</li><li>• Can they make a product which moves?</li><li>• Can they describe the materials using different words?</li><li>• Can they say why they have chosen moving parts?</li></ul>	

Ideas:

## Year 2 DT - Moving Vehicles

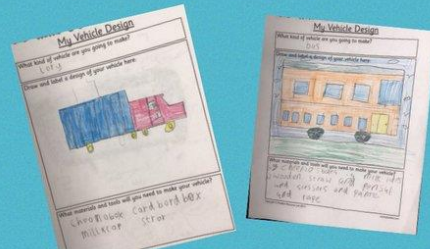
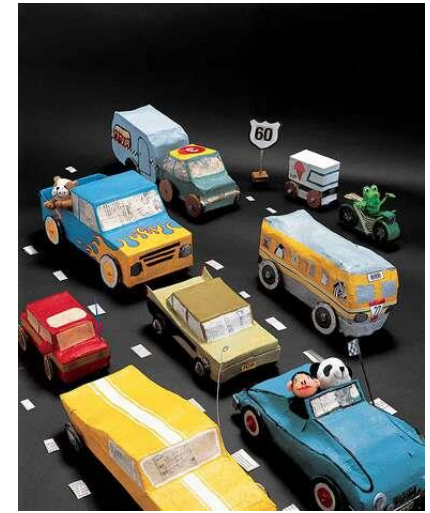
Research - What are vehicles used for? Can you label parts of a vehicle?



Axles - what are axles and how do they work.



We created axles using different equipment.



Design - design a moving vehicle that could be used to transport goods to the market or supermarket.



Make and Evaluate - We made our designs with junk materials. We then checked to see if the wheels moved. Some of the children even made doors so that goods could be put inside.



Useful links:

- <https://www.bbc.co.uk/teach/class-clips-video/design-and-technology-ks2-axles/zmhfvk7> (Says KS2 so not all bits will be relevant)
- [https://www.stalbans.surrey.sch.uk/\\_site/data/files/users/E6DBFE08CE894923FFB36FD4C5CAA8E8.pdf](https://www.stalbans.surrey.sch.uk/_site/data/files/users/E6DBFE08CE894923FFB36FD4C5CAA8E8.pdf) (Good topic info)
- <https://stcharlescatholicprimary.com/year-2-2/art-dt/> (Good basic knowledge organiser)