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| **Unit: Building a Moving Vehicle** | **Year 2** | **Strand: KS1 - Mechanisms** |

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| **Vocabulary:** |
| AxleAxle HolderChassisFrictionDowel | A rod that enables a wheel to rotate. The wheels can rotate freely or be fixed to the rod so the axle moves too.The component through which an axle fits and rotates.The base on which a vehicle is built.Resistance encountered when two things rub together.Wooden rods used for making axles to hold wheels. |





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| **What will be taught through the unit:** |
| Investigate: | * Children investigate what a moving vehicle is – what different types of vehicle are there: Bikes, cars, ambulance, lorry, train, aeroplane, fire engine, motorbike etc…
* What the purpose of vehicles is: to make life easier, to enjoy playing.
* Children look at the moving parts of vehicles and identify wheels, chains, axles, steering mechanisms.
* Children disassemble a LEGO vehicle to look at the axles.
* Children are given materials to experiment with making an axle.
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| Design: | * What vehicle are you going to make? What is it going to need to work well? Children can make a 2/3/4 wheeled vehicle, a vehicle with a different purpose etc…
* What key features will be needed to build their vehicle? Axle, wheels, ladder, chassis, lights etc…
* Children design a vehicle using key vocabulary and technical drawings.
* Design features
* Technical components
* Finishing design
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| Make: | * Children experiment with axles and wheels, attaching a chassis – and discuss the amount of friction needed for the wheels to turn well Use construction kits and other materials to experiment..
* Children construct a vehicle using their design brief.
* Children select tools and materials to construct their design.
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| Evaluate: | * Children evaluate the vehicles using correct vocabulary.
* Evaluate for its design and it’s functionality.
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| TechnologicalKnowledge: | * Chassis -
* Axles -
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| **Challenge: To make a structure - homes** |
| * To build a vehicle using different materials.
* To know the component parts of a vehicle
* To understand how an axel works in a vehicle
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