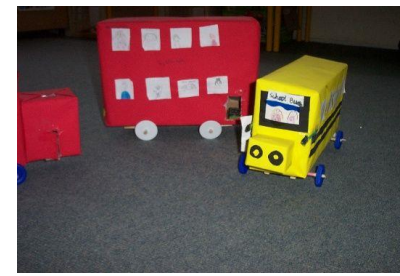


# Moving Vehicles

Design  
Make  
Evaluate

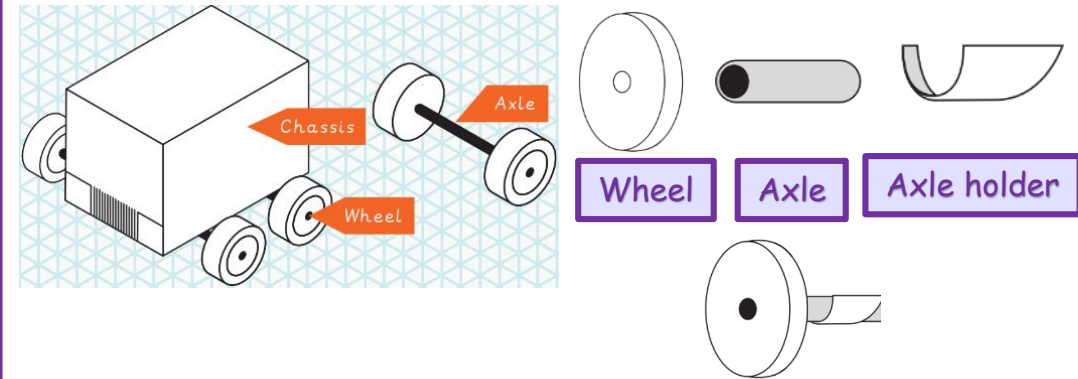


## Key Vocabulary

|                        |                                                                                                                                             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Mock up                | A design of what the final product might look like.                                                                                         |
| Purposeful             | Is the final product able to be used for its purpose.                                                                                       |
| Functional             | Whether a design works and helps the users meet their goals and needs                                                                       |
| Equipment              | The tools which the user need to make the product.                                                                                          |
| Saw                    | A tool consisting of a tough blade used to cut through material.                                                                            |
| Glue gun               | A piece of equipment that heats glue and is used to sticks things together.                                                                 |
| Construction materials | All the resources made to create the final product.                                                                                         |
| Rotate                 | Move or cause to move in a circle round an axis.                                                                                            |
| Wheels                 | A circular object that turns round. It can be fixed to a vehicle like a car or bicycle to allow the vehicle to move easily over the ground. |
| Axles                  | A long straight rod which connects to a rotating part (e.g. the wheels of a car)                                                            |
| Stable                 | An object or structure that is firmly fixed.                                                                                                |
| Product                | The item you are designing, making and evaluating.                                                                                          |
| Design                 | To make, draw or write plans for something.                                                                                                 |
| Design criteria        | The requirements that the product must achieve to be successful.                                                                            |

## How do wheels move?

The wheels need to be round and balance the body of the vehicle. The wheels need to be attached to an axle. The axle needs to fit inside the axle holder but must not be attached to the axle holder otherwise the wheels will not turn properly.



Wheels are on many objects, not just vehicles.  
Have you seen any of these?



Research more:

<https://www.bbc.co.uk/bitesize/articles/zmt7p9q>