

Key Question: Which wheels will make this vehicle move best?

Explore different lids/materials to use as wheels.

Vocabulary

Assemble	To fit together the different parts.
Measure	Find the correct size or amount by using an instrument marked in standard units.
Mechanisms	A system of parts working together in a machine.
Combine	To join single units or substances together.
Axles	A rod or spindle (either fixed or rotating) passing through the centre of a wheel or group of wheels.
Wheels	A circular object that revolves on an axle and is fixed below a vehicle or other object to enable it to move easily over the ground.



In this topic, **we are learning to:**

- **Explore** the development of existing products: what they are used for, how they work and the materials used.
- **Generate** ideas and explain what we are going to do.
- **Decide** to develop our ideas by recording in different ways.
- **Create** our design using appropriate techniques.
- **Evaluate** our final products deciding upon successes and area for improvement.

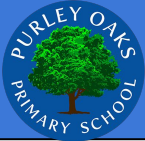
Skills required:

- Measure
- Cut
- Join



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Assessment Focus:

Explore:

We are learning to:

- Draw on our own experiences to help generate ideas and research conducted on criteria.
- Understand the development of existing products: what they are used for, how they work, materials used.
- Understand how to identify a target for what we intend to design and make based on design criteria.
- When looking at existing products explain what we like and dislike about products and why.

Generate:

- Start to suggest ideas and explain what we are going to do.

Decide:

- Begin to develop our ideas through talk and drawing.

Create:

- Make templates and mockups of our ideas using appropriate materials.
- Begin to make our design using appropriate techniques.
- With help measure, mark out, cut and shape a range of materials.
- Explore using tools e.g. scissors and a hole punch safely.
- Begin to use simple finishing techniques to improve the appearance of our product.
- Begin to assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape.
- Explore and use mechanisms [wheels and axles] in our products.

Evaluate:

- Begin to evaluate our products as they are developed, identifying strengths and possible changes we might make.
- Start to evaluate our product by discussing how well it works in relation to the purpose (design criteria).