St Peter's Roman Catholic Primary School

Year D Design and Technology

Year 1 – Transport Vehicles

In this project children will:

Explore and evaluate a range of wheeled products such as toys and everyday objects.

Observe the number, size, position and methods of fixing wheels and axles. Eg How do they think the wheels move? How do they think the wheels are fixed on? Why do they think the product has this number of wheels? Why do they think the wheels are round?

Draw an example of a wheeled product, stating the user and purpose, and labelling the main parts e.g. body, chassis, wheels, axles and axle holders.

• Read a story or non-fiction book that includes a wheeled product eg Fix it Duck

Use this to introduce relevant vocabulary and to emphasise user and purpose.

Design Brief - To make a wheeled vehicle to transport people or goods



By the end of this project pupils will know-

A free moving axle with fixed wheels can be used to make model vehicles.

How will I do this?

- **Explore existing products and investigate how they have been made (including teacher-made examples).**
- **Use pictures and words to convey what they want to design / make.**
- **Use mock-ups e.g. construction materials (lego or meccano) to try out their ideas.**
- **Explain what they are making starting to use technical vocabulary.**
- **Name the tools they are using.**
- **Talk about their design as they develop and identify good and bad points.**
- **Say what they like and do not like about items they have made and attempt to say why.**

KEY VOCABULARY

vehicle, wheel, axle, axle holder, chassis, body, cab, assemble, cut, join, shape, finish, fixed, free, moving, mechanism, saw, wood, design, make, evaluate.