



**Meadows First School Knowledge Organiser**  
**SUBJECT DT**

**TERM YEAR GROUP 2 FOCUS/ THEME: Fire Engines Linked to the topic of The Great Fire of London**

**Techniques /Skills:**

- Design purposeful, functional, appealing products for themselves and other users based on design criteria select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing].
- Build structures, exploring how they can be made stronger, stiffer and more stable explore and use **mechanisms** in their products.
- Explore and evaluate a range of existing products evaluate their ideas and products against design criteria.

**Skills:**

- Develop their design ideas through discussion, observation, drawing and modelling.
- Pupils will build structures, exploring how they can be made stronger, stiffer and more stable.
- Evaluate their products as they are developed, identifying strengths and possible changes they might make.
- Pupils will build structures, exploring how they can be made stronger, stiffer and more stable.
- Measure and cut with some accuracy.
- Use hand tools safely and appropriately.
- Talk about their ideas, saying what they like and dislike about them.
- Pupils will begin to select tools and materials; use vocab' to name and describe them.

**Key Vocabulary**

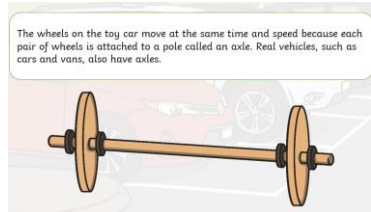
Word/ term	definition
junior hacksaw	A tool used to cut through certain materials.
dowel	Wood cut into a cylindrical shape, suitable for axles and simple frame structures.
bench hook	Enables a piece of wood to be held firmly when being cut.
structure	A framework or shell made to contain or support something.
stable	Firmly fixed, not easily swayed or moved.

The children will also discuss wheels, axels, chassis etc...



**Key People / information**

The children will making a moving fire engine and explore the parts of a vehicle and how it can move.



**Resources: Books, internet sites and places to visit**

- Year N- Balloon Car
- Year R- Lunar buggy
- How does a vehicle move?
- What can a vehicle transport?
- Can you name 3 important parts of a vehicle?

**Web sites and books:**

