Design and Technology
Year 2: Autumn 2

Fire Engines

Vocabulary
Vehicle, functional, tech card, join, shape, chassis, axle, wheel, frame, replica,

Learning enquiry question: How can we design and make a functional fire engine prototype?

Prior Learning:

- Pupils have experimented with junk modelling
- Children understand how to use tools safely (i.e. cutting, sticking)
- Pupils know about wheels & axels, levers, strong and stable structures

Curriculum Links:-

History- The Great Fire of London

By the end of this unit, I will be able to:	SA	TA
Know the appropriate tools to join materials		
Understand strong and stable structures		
Understand the purpose of a fire-engine		
Evaluate the functionality of their fire-engine		
Understand properties of materials		

Tools to



scissors

glue stick



Tools to

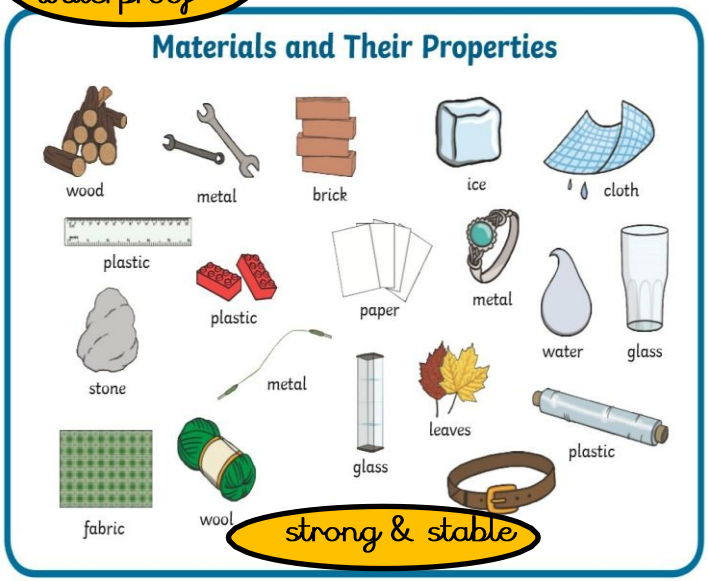
PVA glue



cellotape



waterproof



Purpose of Fire Engine

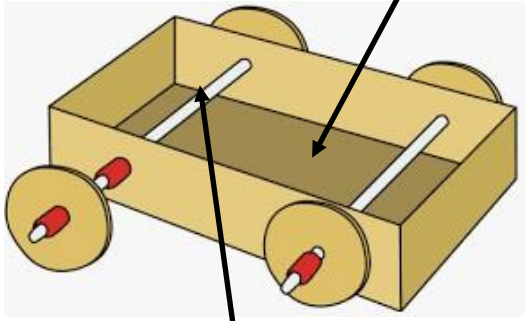
- To put out fires
- To rescue people
- To carry firefighters
- To carry tools and resources

Parts of a Fire Engine

- Usually has 6 wheels
- Has multiple hoses
- Lots of people can fit into the engine



What is a chassis? Frame that supports the car from underneath.



What is an axle? A rod that passes through the centre of the wheel.