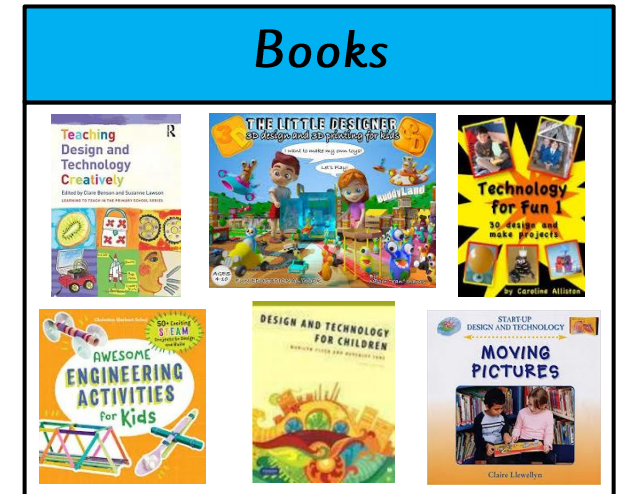



# Design – Year 2 – autumn 2 – Great Fire of London

Vocabulary	Meaning
<b>amend</b>	Make minor changes to something order to make it fairer or more accurate.
<b>attach</b>	Join or fasten (something) to something else.
<b>axle</b>	A rod or spindle (either fixed or rotating) passing through the centre of a wheel or group of wheels.
<b>chassis</b>	The base frame of a car, carriage, or other wheeled vehicle
<b>combine</b>	Join or merge to form a single unit
<b>design</b>	A plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.
<b>designer</b>	A person who plans the look or workings of something before it is made, by preparing drawings or plans.
<b>evaluate</b>	To assess, judge or calculate the quality of something.
<b>fire engine</b>	A vehicle carrying firefighters and equipment for fighting large fires.
<b>ladder</b>	A piece of equipment consisting of a series of bars or steps between two upright lengths of wood, metal, or rope, used for climbing up or down something.
<b>materials</b>	The matter from which a thing is or can be made.
<b>product</b>	An article or substance that is manufactured or refined for sale.
<b>wheel</b>	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.


Skills
Name main features of a fire engine.
Identify an axle and chassis.
Identify different ways of combining materials.
Discuss their design.
Evaluate a finished product.




## Knowledge




**axle**




**wheel**



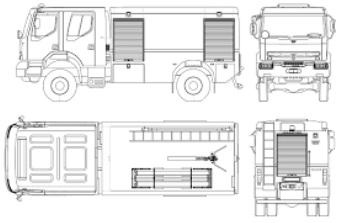
**chassis**



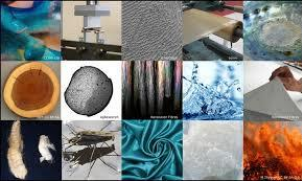
**ladder**



**designer**



**design**



**materials**

**What I should be able to do and know now.**

**Knowledge**

Know what they are making.

Know why we have fire engines.

Why we label a picture.

How wheels move.

Understand simple characteristics of materials.

**Skills**

Know how to label a picture.

How to cut with scissors.

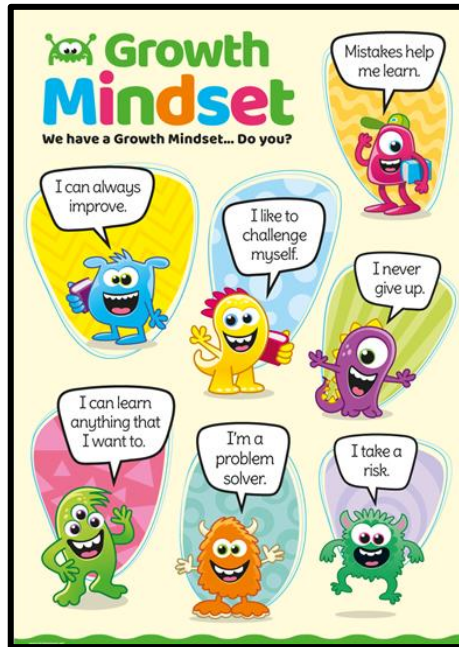
How to draw a picture.

Explain how their product will work.

Explain their choices.

Use knowledge of existing products to help come up with ideas

**Growth Mindset Strategies**



**What I will be learning**

1. What the main features are on a fire engine.
2. The role of a designer.
3. What an axle is used for.
4. What a chassis is used for.
5. Different ways to combine materials.
6. How to follow a design to create a model.
7. How to evaluate a finished product.

**What I will know and be able to do at the end of the topic.**

Name the main features on a fire engine.

Describe the functions of various parts of a fire engine.

Know what an axle is and what it is used for.

Know what a chassis is and what it is used for.

Identify different ways of combining materials.

Explore ways of making different parts of a fire engine e.g. the ladder.

Design a fire engine with wheels, axles and a chassis.

Follow a design to create a fire engine.

Evaluate their finished product and identify what could be improved.