

DT - Making Fire Engines

Steps through Learning 1

My steps through learning:

What I will know and understand

How I will show that I know it

Lesson 5

To know how to make a fire engine based on a design.

I can follow a design to create a fire engine.



Lesson 3

To know how to investigate ways of creating the body of a fire engine.

I can explore ways of making different parts of a fire engine eg ladder.



Lesson 1

To know the features of modern fire engines.

I can label the main features of a fire engine.



What should I already know

- Junk modelling experience
- Ideally junk modelling purposefully.
- How to explain my choices.
- A basic understanding of a fire engine - what it looks like and what it does would be helpful.



Lesson 6

To know the effectiveness of a finished product.

I can evaluate a finished product by identifying what I did well and what can be improved in future.



Lesson 4

To know how to design a fire engine.

I can describe which materials and tools I will need to make my fire engine.



Lesson 2

To know how to investigate wheels, axles and chassis.

I know that there are two different ways of attaching wheels to axles.

National Curriculum:

- Design purposeful, functional, appealing products for themselves and other users based on a design criteria.
- Generate, develop and communicate their ideas through talking, mock-ups and drawing.
- Select from and use a range of tools and equipment to perform practical tasks.
- Select from and use a wide range of materials and components.
- 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.