



Subject: DT	Year group: 1 Term: Autumn 2	Title: Fire! Fire!
What should I know? • How to create simple representations of events, people and objects • How to construct with a purpose in mind, using a variety of resources • How to select and use simple tools and techniques to shape, assemble and join materials 	Facts I will learn ... • What a mechanism is. • Which mechanisms are used in the design of a fire engine. • Why these mechanisms are used and how effective they are. • How structures can be made stronger, stiffer and more stable 	Key questions ... • Product - what could we make? • Purpose - what is it for? • User - who is going to use it? • What movement does this lever make? • What happens if I change the length? Position? Size? Shape? Direction? • Which lever will give me the movement I want for my fire engine? 

Key Skills... - Evaluating existing products - Designing a product based on existing products and their own ideas - Selecting materials for a purpose - Folding, tearing and cutting paper and card - Joining materials for a purpose - Evaluating my own and others' work 	Experiences that school may provide: - A visit to a fire station - A ride inside a fire engine 	<table><tr><th>Key vocab</th><th>Definition</th></tr><tr><td>Mechanism</td><td>The whole or parts of a machine, mechanical system, or device.</td></tr><tr><td>Lever</td><td>A basic tool used to lift or pry things open or a handle used to control or set the position of a part in a machine.</td></tr><tr><td>Structure</td><td>Anything that has been built.</td></tr><tr><td>Product</td><td>Something made by means of either human work or that of a machine.</td></tr><tr><td>Purpose</td><td>A reason or plan that guides an action, design or goal.</td></tr><tr><td>Position</td><td>The way something is placed or arranged.</td></tr></table>	Key vocab	Definition	Mechanism	The whole or parts of a machine, mechanical system, or device.	Lever	A basic tool used to lift or pry things open or a handle used to control or set the position of a part in a machine.	Structure	Anything that has been built.	Product	Something made by means of either human work or that of a machine.	Purpose	A reason or plan that guides an action, design or goal.	Position	The way something is placed or arranged.
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Web links https://www.bbc.co.uk/bitesize/topics/zr8k7ty/resources/1 Looking at why different materials are used for different purposes. https://www.youtube.com/watch?v=9rmf2tt3FYw Watch Cbeebies Do you know? This one is all about how a fire hose works.	Experiences that could be provided at home... - Explore a real or toy vehicle and discuss the features (e.g. wheels, doors) - Design a different emergency vehicle															

	• Make a vehicle using recycled materials	
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