## GGA - Design & Technology Year 2 Autumn Term Mechanisms – Levers & Axles

Making	- Learning using Tools and	Research, Designing & Planning			Cross Curricular Links	
FPT Focussed Practical Task	Equipment Practise and experiment with	Using your DT booklet, plan and prepare using the step by step pages of guidance number below.			Maths	You'll use your <b>measuring</b> skills to make sure all the pieces you cut out and make are the right <b>size</b> and <b>shape</b> for your design.
	your ideas in a small way to find out what works– <b>e.g. make mini</b> levers from paper	Planning sheet & description	This means what you need to make your idea and what your idea needs to be like.		Art	You'll use your art skills to make a <b>creative</b> and <b>imaginative</b> design using your mechanism.
	Cylinders	description	This the page where you will draw your design idea so that you know what it needs to do		English	You'll use <b>literacy</b> skills to <b>describe</b> your experience at the end of the project in your <b>Evaluation</b> .
	Cylinders shapes can be used to rest the crank handles on to give them space to turn around.	Your design ideas page			PSHE & Values	You'll experience a sense of <b>Creativity</b> , Perseverance, Patience & Accomplishment
	Doweling		This is your plan to decide what you need to do in order until you know each part of the making well. You can write your plan in words or draw it in pictures.		History	You'll investigate how these mechanisms have changed in the <b>past</b> up until today and used at different <b>centuries</b> through history.
	Can be cut using strong card	Step by step plan				ζ,
	scissors to the length you need.					Key Technical Vocabulary-Glossary
						This is a handle that can be turned to spin around
	Pipe Cleaners & Bendy Straws	Evaluation	Now that you have finished, it's time to think about how well you did and how you could improve it next time.		Crank Handle	the device it is attached to.
	Make an axle for wheels or a crank handle to turn. They are bendy and flexible so that you can shape them more easily.				Axle	The rod that the wheels are attached to.
					Winding	A curving or turning action.
					Lever	A lever is a handle or bar that is attached to a piece of machinery and which you push or pull to
		Why are we learning this?			operate the machinery.	
	Split Pins	To know how to:			Levers can be use	d with or without a slot
	Make a hinge, like the bend of your elbow.	be creative with levers mechanisms and cran experiment and get th	k handles to			
	Cardboard Wheels	result			A card strip is used as a	aner ever. The fish and bost are
	Put wheels onto straws and wooden dowel rod. Your wheels or crank handle will spin around.	Why is it in So that we understan make a winding mecha and how to make a lev Great Fire of London p	<b>d how to:</b> anism for our castles ver mechanism for our	If the wheels are not attached to the task, you need to use some targets the wheel you player off. This can be a failed to watch support the wheel you player of the task of a set of the set of a set of the set of a wheel watched to watched watched to watched to watched the set of the set of a set of the set of the set of a set of the set of a set of the set o	glued to the lever which is used as a handle.	