GGA – DT Year 6								
Making - Learning using Tools and Equipment		Research, Designing & Planning			Cross Curricular Opportunities			
FPT – Focussed Practical Task	This is a small practical investigation mini focus on an aspect of your design. E.g. structuring a join or making a	Kolb's Learning Cycle (below left)	Use this cycle to help you to continuously improve your design ideas and refine them until you have a successful outcome within the time constraints of the project.			Measuring and marking out materials accurately, length/area/perimeter for cutting/construction precision		
Fra	fastening	Design Brief	Read through the design brief thoroughly to ensure you understand the guidance and instructions of the project		Art	Presentation and drafting skills, creative and aesthetically pleasing ideas		
User of Ramin	5mm squared wooden rod to make the framework of the chassis*							
	To cut Ramin safely and with precision to ensure accuracy.	Technica I Drawing	The construction plan model of the basic concept/idea of the vehicle. This will give you a sense of structure and scale.			Material properties and limitations, affects of physical manipulation, setting up a test/enquiries/evidencing.		
Use of coping saws	Blades may break and you will be taught how to replace them carefully.	Prototypes 1 and Mock- ups 1	These will allow you to trial and test your ideas as you progress to find the most efficient construction methods for your design (see the blue circle in Kolb's Learning Cycle below)		PSHE& Values	Co-operation & collaboration, perseverance, resourcefulness,		
Use of glue guns	Glue guns will bond your materials instantly because the hot glue they produce solidifies at room temperature.	Proto and I u			Key Technical Vocabulary-Glossary			
		Why are we learning this?			Orthographic		Design using precision technical drawing skills e.g. rulers/measuring/scale	
Building the chassis*	This is the wooden framework , an underframe to attach your axle supports, axle & wheels to. You will use the glue gun to do this.				Traction		The grip/hold your vehicle should have on the surface it travels along	
		To know how to: create a basic design construction and develop it into a functioning and			Chassis		The wooden load-bearing framework of your vehicle/the undercarriage	
Attaching the wheels to the axle	You will use a ruler to accurately measure out the length of axle to be able to cut to the length advised.	useable product.			Axle		Wooden rod/doweling that you will thread on to your wheels	
		Why is it important?			Doweling		lengths of wooden rod for the axles,	
The cab of your vehicle	Your recycled packaging will determine the outcome.	So that we understand how to: Develop our 3D design and making		60	Reinforce		which will support the wheels to strengthen and support	
		skills. To practise using more sophisticated tools and equipment in readiness for KS3 Design &			Ramin		long cuboid shaped pieces of birch rod	
	Espetence	Technology at secondary level.		A-1	Axle Supports		To thread the axle rod through so that the wheels an spin.	

Prototype or Mock-

up

A model to demonstrate how your

finished design might look or function

