Spring Term		Lostwithiel Primary School		<u>Year Three</u>
Design and make a model cable car. DT Knowle			e Organiser	Beech Tree Class
		-	-	materials and components, including construction materials. ard. They will have explored and used mechanisms such as
	and wheels in their products.	and finishing rechniques i	and paper and co	and. They will have explored and used mechanisms such as
	ledge and skills:			
of the p belt will Pulleys v Archime More co mountai The cab and bac The chil will smo purchas	le car in Llandudno, Wales uses a pulley sys k. Idren will design a model cable car to transj	able or belt. The load att Rome, Greece and Egypt, 287 BC to move Greek w cable cars to move people stem to take tourists to t port a Lego family up and The cable cars will be mo for the cable (string).	ached to the pull mainly to move v varships. and goods up an the summit of Gr down a mountair de from a cardb	ley wheel water. Ind down reat Orme n. They will use either a fixed or moveable pulley system which oard net and bonded with PVA glue. The pulleys will be pre
Key DT Vocabulary -		G	eneral Terms and Cross Curricular Vocabulary	
pulley wheel	A wheel, with a grooved rim for carrying a lin or block and serves to change the direction of		invent	Invent means to create or design something that has not existed before. In design and technology, the invention will fulfil a problem
cable car	A transport system, typically one travelling u in which cabins are suspended on a continuou a motor at one end of the route.	•	force	In science, a force is the push or pull on an object with mass that causes it to change velocity (speed) and direction.
face	The 2D surface of a geometric shape, which can be folded to make a 3D form.		load	Load is a term frequently used in engineering to mean the force exerted on a surface or body.
net	The flat or opened-out shape of a 3D form such as a cube or prism.		model	A model is a small-scale replica of the potential finished product. Making a model allows designers to visualise and test how a produc looks and performs in 3D.
scoring	Cutting a line or mark into sheet material to	make it easier to fold.	evaluate	Designers evaluate their finished products or prototypes in order to test whether they work well and if the design can be corrected or improved.

DT Outcome	Cross Curricular Links		
	Geography: Mountains topic Science: Investigating forces Forest schools: The children will use the forest school area to investigate different pulley systems. They will move natural materials, such as stones and logs, using fixed and moveable pulleys. They will sketch the pulleys, take photographs and discuss		
The children will design and make a cable car for a Lego family. The cable car will move up and down a slope using a simple pulley system.	their investigations as part of the design process. The children will then use the area to find a slope and plan their cable car design. The cable car will be tested and evaluated with the Lego figures in the forest school area.		
Linked documents: Class Overview, DT Whole School Progression document and Class Medium Term Planning.			