Design Technology Skill Pogression Design and Technology Projects for Year 1



	Sliders and levers E.g. Make a toy with a moving part					
Possible links with other subjects	Science: Identifying everyday materials	Maths: Measure	History: Investigate, design and make a toy, based on what we have learnt about toys in the past.			
Designing	Making			Evaluating	Technical Knowledge	
Understand what a toy is and who it is for. Understand how toys work. Identify where and when you might find a range of toys. To suggest ideas and explain what they want to create. Explain who their toy will be used by. Discuss what their steps for making could be Represent ideas through talking and drawing Identify the materials they could use to make the toy.	Order the main stages of Make simple sliding and le mechanisms. Follow safety procedures: use scissors safely. Observe a hole punch an being used safely. Make their design (with an appropriate techniques Choose suitable tools for m Measure, mark, cut, shape and components Explain their choice of mo functional properties and Use finishing techniques su product they are creating	ever Know how to ad a glue gun dult help) using making their toy e and join mate aterials accordin aesthetic qualit	erials ng to	Evaluate their toy by discussing how well it works in relation to the purpose Talk about their design ideas and what they have made Make simple judgements of how the product met their design ideas Suggest with adult help how they could have imporoved their toy.	To know that simple levers and sliding mechanisms can be used to create movement To know that construction kits can be used to try out ideas Know and use technical vocabulary relevant to the project.	



AUTUMN : MECHANISMS	Wheels and axles E.g. Make a moving vehicle/ make a machine which will collect/carry and disperse/dispense water.						
Possible links with other subjects	Science: Properties and uses of materials	Maths: Measure and using a ruler to draw to the nearest cm.		History: Investigate, design and make a vehicle which could have carried water to put out The Great Fire of London.			
Designing	Mak	cing		Evaluating	Technical Knowledge		
Understand what existing machines are and what their purpose is. Identify the materials used to make the machine. Express an opinion about the machines being investigated. Generate realistic ideas through discussion and design criteria for an appealing, functional product fit for purpose and specific user/s. To develop their design ideas through discussion, observation, drawing and annotating	Order the main stag Select and use app Join, assemble and materials and comp their machine. Explain their choice according to function and aesthetic quali Use finishing technic the product they are To apply rules which risk when using mater and equipment. To use hand tools so appropriately.	ropriate tools to combine bonents to make of materials onal properties ties. ques suitable for e creating. n will control erials, tools	ran ma ma tec use Talk and Tes ma crit- and Ma how des Sug	estigate and evaluate a ige of existing vehicles and ichines including the iterials, components and chniques that have been ed. < about their design ideas d what they have made t and evaluate their own ichines against design eria and the intended user d purpose. ike simple judgements of w the product met their sign ideas ggest how their product uld be improved	To use wheels and axles, understanding that wheels and axles can be assembled in two different ways: - either the wheel is attached tightly to the axle and the axle is free to rotate, or the axle is fixed with the wheel free to rotate around Know and use technical vocabulary relevant to the project.		