Pinner Wood School

Year Group	4	Term	Spring 2	Subject	DT	Topic	Levers and Linkages
						Key Question	What are mechanisms and how are they used?

Prior Learning and other Curriculum Links	**Construction and Mechanisms:** I can create, develop and strengthen my tent using diagonal struts and use sketches, diagrams and prototypes to design and evaluate. (Year 3 objectives)	Target Tracker statements (Skills)	• I can use my knowledge of existing products to design a functional and appealing product for a particular purpose and audience. • I can create designs using exploded diagrams • I can consider how existing products and my own finished products might be improved and how well they meet the needs of the intended user. • I can apply techniques I have learnt to strengthen structures and explore my own ideas
Fundamentals	**Construction and Mechanisms:** I can use my knowledge of existing products to evaluate and design a functional and appealing product for a particular purpose and audience, using exploded diagrams and techniques to strengthen structures.	Key Facts/Sticky Knowledge	I can consider how existing products and my own finished products might be improved and how well they meet the needs of the intended user. Levers Linkage Pivot Mechanisms Design Prototype Evaluate

Our Curriculum Journey	Stunning Start: N/A Journey: In this unit children will develop understanding about levers, linkages and mechanisms. They will start by creating basic levers using card templates and split pins. They will then learn about design briefs and design criteria before being given the chance to apply their knowledge by designing a poster to encourage people to help in the fight against deforestation of the rainforest (linking with the concurrent Geography unit), using a moving part in the poster. The children will create a prototype which they will then evaluate Children will decide upon the design criteria for the light by considering who will use it, where it will be used and what for. Finally, children will complete a detailed evaluation of their final product.		
Key Vocabulary (revisited)	Prototype Diagrams Annotated Sketches	Key Vocabulary (new)	Levers Linkage Pivot Mechanisms Design Prototype Evaluate