Pinner Wood School

Year Group	2	**Term**	Summer 1	**Subject**	DT	**Topic**	**Travel and Transport**
						Key Question	*How can I create a moving vehicle?*
Prior Learning and other Curriculum Links	**<u>Year 1 - Construction:</u>** I can create a mock-up using pictures and words of my product to describe my ideas, asking simple questions about how my design can be made more stable.					**Skills statements**	• I can explore and use mechanisms such as wheels and axels to create a moving vehicle. • I can safely measure and cut materials and components using a Coping Saw. • I can build structures and discuss how they can be made stronger, stiffer and more stable
Fundamentals	**<u>Construction and Mechanisms</u>:** I can design, develop, create and evaluate a moving vehicle using wheels and axels and a coping saw.					**Key Facts/Sticky Knowledge**	The wheels on cars move at the same time and speed because each pair of wheels are attached to an axle. An axle needs to be attached to the chassis. A chassis is the frame upon which the rest of the vehicle is built.
Our Curriculum Journey	**Stunning Start:** During our history learning, children will be introduced to a significant figure (Karl Benz) who built the Benz Patent-Motorwagon in 1885. Children will explore the similarities and differences between cars then and now and use this research to inform their designs of their own moving vehicle. **Journey:** The children will make a range of prototypes, testing different sized and shaped wheels. They will evaluate which shape and size allows the vehicle to move easily. **Show stopper:** After the children have built their moving vehicle and they are happy with its structure and stability, children will take their cars for a road-test. A circuit will be made where children can navigate around obstacles testing and evaluating their vehicles.						
Key Vocabulary (revisited)	Materials Tools Techniques Safety Design Features					**Key Vocabulary (new)**	Stability Design Mock-up Evaluate Axel Wheel Chassis