

### **Busy Gizmos!**

Year 2 (build structures, exploring how they can be made stronger, stiffer and more stable explore and use mechanisms in their products)

#### **Important Ideas:**

- The process of change: how have things changed between your grownups' childhood and yours?
- That every new invention has a design process and a consumer.

### You have already learned:

- How technology has changed to improve lives.
- About some significant people in the past.
- Basic attachment techniques to build 3D structures, including split pins for rotating parts.

	Key Tier 2 Vocabulary:
Invention	A new thing which someone has made.
Design	A drawn plan for something which is going to be made.
Joining	The different ways we can attach two materials together.
Design Criteria	The goals a project must achieve to be successful.
Evaluate	Reflecting on how successful something was.

	Key Tier 3 Vocabulary:	
Karl Benz	Invented the first petrol car.	
Henry Ford	Created the Ford Motor Company who began to mass produce cars.	
Axle	The rod that going through the wheel to help it move and stay in place.	
Wheel	A round shaped mechanism which helps things to roll along a surface.	
Chassis	The main frame or body of a vehicle.	
Vehicle	A machine which carries people from place to place.	
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Henry Ford



Karl Benz





# Sticky Knowledge – I will know:

- That Karl Benz invented the first petrol car.
- That Henry Ford was the founder of the Ford Motor Company who were the first people to mass produce cars. This meant that cars were more easily accessible.
- That modern cars can run on petrol, electricity or a hybrid of both.
- That cars in the past were less energy efficient.
- That an axle can either be 'fixed' or 'free'.
- That with a 'fixed' axle, the axle stays still and the wheels rotates on the axle.
- That with a 'free' axle, the axle and the wheels rotate together.

# Design & Technology/History Skills – I will be able to:

- Explain the differences between a 'fixed' and 'free' axle.
- Design and make a wheeled vehicle
- Describe different types of transport and discuss how they are used.
- Describe the differences between old and new cars.

