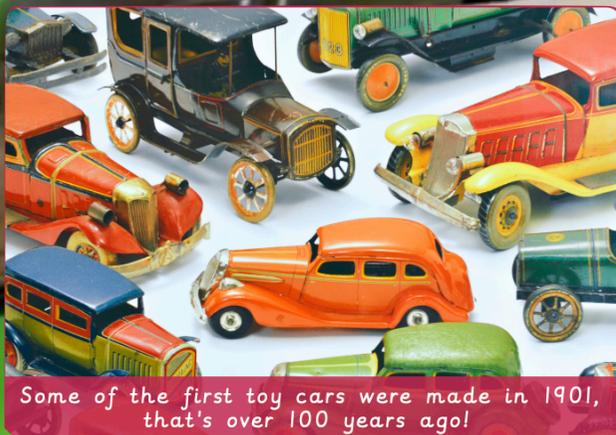


# Year 4 - Mechanical Systems - Slingshot Car - Term 2

## Key Vocabulary

<b>Aesthetic</b>	How an object or product looks.
<b>Air resistance</b>	The level of drag on an object as it is forced through the air.
<b>Chassis</b>	The body of a car.
<b>Design</b>	To make, draw or write plans for something.
<b>Design criteria</b>	A set of rules to help designers focus their ideas and test the success of them.
<b>Function</b>	The purpose of an object (for example a chair needs to hold a person when sitting down); or how the product works (for example a torch needs to provide light in a dark space).
<b>Graphics</b>	Images which are designed to explain or advertise something.
<b>Kinetic energy</b>	The energy that causes an object to move.
<b>Mechanism</b>	The parts of an object that move together as part of a machine.
<b>Net</b>	A flat 2D shape, that can become a 3D shape once assembled.
<b>Structure</b>	Something that has been made and put together and can usually stand on its own (eg a building, a bridge, a chair).

### Did you know?



<b>To know statements</b>	✓ ✗
I know how to produce an accurate, functioning car chassis	
I know how to design a shape that is suitable for the project and making some attempt to reduce air resistance through the design of the shape	
I know how to produce panels that will fit the chassis and can be assembled effectively using the tabs they have designed	
I know how to construct the car bodies effectively and can conduct the trial accurately and drawing conclusions and improvements from the results	

What can you remember from previous units?  
 What are levers, linkages and pivots?

Anything else you have learnt? What have you enjoyed?