

Year 4 DT Slingshot Cars

Key Skills

1. To build a car chassis
2. To design a shape that reduces air resistance
3. To make a model based on a chosen design
4. To assemble and test my completed product



Vocab/Key Words

Aesthetic - How an object or product looks.

Air resistance - The level of drag on an object as it is forced through the air.

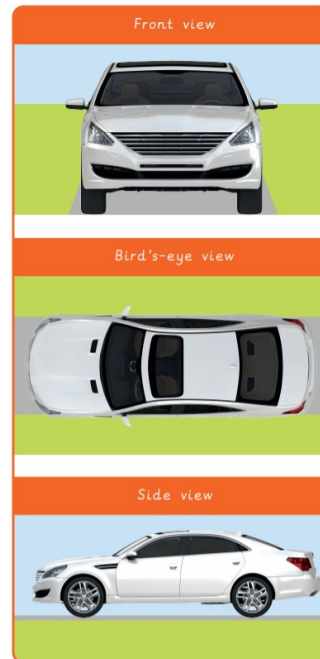
Chassis - The body of a car.

Graphics - Images which are designed to explain or advertise something.

Kinetic energy - Images which are designed to explain or advertise something.

Mechanism - The parts of an object that move together as part of a machine.

Key Knowledge



Which vehicle has the least air resistance?



Previous Learning

- Pneumatic toys (Year 3)
- ♦ Moving monsters and Ferris wheels (Year 2)
- ♦ Moving storybook and wheels and axles (Year 1)

What I will know/be able to do by the end

- Children transform lollipop sticks, wheels, dowels and straws into a moving car. They will be using a glue gun to construct the materials, making the launch mechanism, designing and also making the body of the vehicle using nets and assembling these to the chassis
- I can follow health and safety rules
- I can suggest appropriate design criteria points to fulfil the design brief

Websites/Signposting/Connection to a famous person

<https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/mechanical-systems-making-a-slingshot-car/>