



ST. ALBAN'S
CATHOLIC PRIMARY SCHOOL
LEAD THE WAY

Yr 6 DT: Mechanics



Designing and building a motorized vehicle

Key vocabulary

- **Pulley** – a grooved wheel over which a drive belt can run
- **Drive belt** – the belt which connects and transfers movement between two pulleys
- **Axle** – a central shaft for rotating wheels
- **Bearing** – this retains the axle in position whilst allowing it to rotate
- **Series circuit** – a circuit with only one possible path for the current
- **Short circuit** – an incorrect route in a circuit which misses out certain components and can cause the circuit to fail

1.

Imagine it...

*Think about it.
Research what is out there already.
Record what you know already.*

*How to be a great
designer!*

2.

Plan it...

*What is the purpose of it?
Draw/ write/ describe your ideas.*

4.

Evaluate it...

*What went well?
How could you improve
it?
What could you
change?*



3.

BUILD IT

*Be creative.
Be ready to change things.
Build it!*

Equipment we will use

JUNIOR HACKSAW

Safety tip: keep fingers away from the blade



LOW-MELT HOT GLUE GUN

Safety tip: If you get glue on you, run it under a cold tap. Do not try to remove the glue



G CLAMP

Safety tip: make sure the clamp is tight (test before use)



Name these electrical components:

