

# Technology: Motor Vehicle



## KS3- KS4/5 Subject

### Skills Learnt:

#### KS3

- ❖ Safe working practices and safety legislation.
- ❖ Cams and followers: mechanical systems.
- ❖ Planning a sequence of work:
- ❖ Permanent and non-permanent fixtures and fittings.
- ❖ Working as a team.
- ❖ Applying technical data.

#### KS4/5

- ❖ Remove, inspect and replace engine and chassis system components
- ❖ Demonstrate the correct use of routine servicing equipment
- ❖ Steering and suspension component knowledge
- ❖ Basic engine principles relating to 2 stroke and 4 stroke engines, Lubrication and cooling systems
- Wheel balancing.
- Communicating effectively: Customer and team relationships

Year 7



Introduction to electronic components, soldering, Resistance, Voltage and Current.

Linkages & cams.

Safe working Practices

Year 8

**Planning**  
Planning a sequence of work

**Fixings**  
Permanent and non permanent fixtures and fittings: Creating screw threads

Year 9

Working as a team

Using technical data and measuring accurately

Risk Assessment: Using tools and machinery with control measures

Casting and machining: Using hand tools accurately and safely

Steering and suspension practical skills and theory knowledge.

Engine coolant & lubrication system

Motor Vehicle Practical Tasks: Mechanical systems

Year 10

Year 11

Servicing focus.

Synoptic: MOT maintenance inspection & condition. Reporting of engine and chassis systems

Multiple choice online tests: Theory of engine mechanical systems, steering, suspension and synoptic servicing knowledge.

Work Experience for 1-2 days a week to gain valuable experience and put theory into practice

Range of motor vehicle practical tasks: Mechanical systems including transmission

Safe working practices including PPE and VPE

Year 12

Year 13

Communication skills: Good working relationships

Synoptic: plan, prepare, carry out and report on routine light vehicle maintenance.

Multiple choice online tests: Theory of engine mechanical systems, steering, suspension and synoptic servicing knowledge.