



DT7 Polymers

Personal learning checklist | 1 of 2

AQA GCSE Design and Technology 8552 | Written examination · Specialist area · Polymers

Name _____ Class _____ Date _____

Tick one box for each statement. Red: need help. Amber: partly confident.
Green: can do independently.

Use your taught examples and supervised practical evidence. Quick checks support concepts; design and making need demonstration and judgement.

I can	Red	Amber	Green
Sources and selection			
Explain petrochemical feedstocks, cracking, monomers and polymer formation.	☐	☐	☐
Distinguish bio-based feedstock from biodegradability and disposal conditions.	☐	☐	☐
Compare thermoplastic and thermosetting examples for seating or fittings.	☐	☐	☐
Explain pigments, plasticisers, UV stabilisers and reinforcement.	☐	☐	☐
Stock and shaping			
Specify polymer stock, grade, gauge and compatible components.	☐	☐	☐
Choose safe cutting/drilling methods and verify laser compatibility.	☐	☐	☐
Explain vacuum forming with heating, pressure, draft, vents and trimming.	☐	☐	☐
Compare injection moulding, extrusion and blow moulding for products.	☐	☐	☐
Explain line bending, drape forming and suitable resin casting.	☐	☐	☐
Evaluate 3D printing and compatible polymer joining methods.	☐	☐	☐

My next revision priority _____



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I can	Red	Amber	Green
Finish and environmental impact			
Measure moulding defects and apply a compatible finish.	☐	☐	☐
Plan sorting, repair and end-of-life separation without unsupported claims.	☐	☐	☐

My next revision priority _____