

DT12 Calculations and assessment preparation



Personal learning checklist | 1 of 2

AQA GCSE Design and Technology 8552 | Written examination · Shared theory and skills

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
Quantitative design			
Convert linear, area and volume units correctly.	☐	☐	☐
Calculate areas and prism/cylinder volumes with appropriate units.	☐	☐	☐
Calculate stock quantities and costs using a verified nesting plan.	☐	☐	☐
Use scale, ratio, angles, coordinates and symmetry in accurate drawings.	☐	☐	☐
Calculate dimensional limits and assess compatible fits.	☐	☐	☐
Calculate moments, gear ratios, speed and mechanical advantage.	☐	☐	☐
Apply $V = IR$ and $P = VI$ with correct electrical units.	☐	☐	☐
Summarise test data and construct honest graphs with labelled axes.	☐	☐	☐
Calculate percentage changes and fixed/variable unit costs.	☐	☐	☐

My next revision priority _____

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Personal learning checklist | 2 of 2

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

I can	Red	Amber	Green
Examination and NEA			
Explain examination structure and use command words and contextual reasons.	☐	☐	☐
Present calculation workings, required units and sensible precision.	☐	☐	☐
Plan authentic NEA investigation, development, realisation and evaluation.	☐	☐	☐
Demonstrate practical/design skills through evidence, feedback and safe work.	☐	☐	☐

My next revision priority _____