

COMMAND WORDS IN EXAMS

Which	1 mark
What	1 mark
Identify	1 mark
State	1 mark
Give	1-2 marks

These all require you to answer either in one sentence or word. No explanation needed, but be specific.

Explain 2-4 marks

Provide a reason eg a property that links to the product use.

Calculate 3-4 marks

Work out the answer, use correct units, number of decimal places etc.

Complete 4 marks

Usually a drawing, table etc, fill in the missing blanks.

Describe 2-6 marks

Outline 6 marks

Set out the main characteristics.

Discuss 6 marks

Present key points about strengths & weaknesses.

Analyse 4-8 marks

Evaluate 4-10 marks

Look at both positives & negatives of the topic.

USEFUL THEORY LINKS ETC

- <https://www.technologystudent.com/>
- <https://classroom.remembereverything.com/>
- CGP revision guide- GCSE AQA Design and Technology, Grades 1-9

DESIGN & TECHNOLOGY: VRM EXAM TIPS

SECTION A

- First 10 Questions are multiple choice x 1 mark each
- 10 further marks of short answer questions eg 1-2 marks each

SECTION B

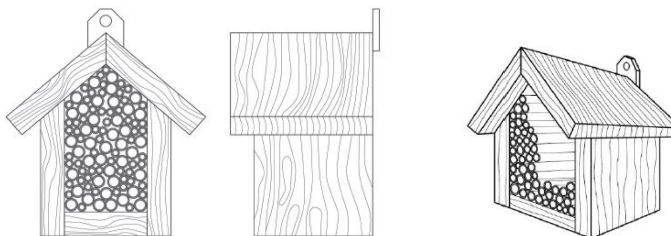
- 30 marks
- Choosing a material area to answer questions on (hint, you should do papers & boards)
- Questions on processes & production of materials
- Usually a describe with notes & sketches question approx. 6 marks
- Maths question/s
- Environmental impact questions
- Industrial processes/ considerations

SECTION C

- Start with a specific product, specification point considerations 3x 4 marks
- Ergonomics/ anthropometrics linked to product
- Math question linked to data form table/ graph
- How to use the data in a product
- Design process questions
- Possible drawing question- convert one type into another
- Maths question eg calculating wastage, percentages etc

ISOMETRIC, ORTHOGRAPHIC DRAWING

Usually in Section C, you will have to convert one type of drawing into another and/ or complete a drawing. This is usually isometric and orthographic.



Example from an exam, use the orthographic drawing to draw a 2 point perspective view.



EVIDENCE OF REVISION

- ☐ Recap sheets for sections 1, 2, 3, 4, 8
- ☐ Revision sheets for sections 1, 2, 3, 4, 8
- ☐ Mind maps for sections 1, 2, 3, 4, 8
- ☐ Retrieval cards/ sheets
- ☐ Own resources

MATHS SKILLS

- **Areas of shapes** eg square, triangle, circle etc
- **Volumes** of 3D shapes eg cylinder, cuboid etc
- **Percentages**- working out the percentage used, waste etc
- **Triangles**- angles, lengths etc
- **Circles**- circumference, area etc
- **Ratios**- work out the amount needed, using a ratio, scale sizes up/ down

SECTION A

The multiple choice questions, you must answer like this:

CORRECT METHOD



WRONG METHODS



Example 1 mark

Which **one** of the following contributes to global warming?

- A** Using renewable sources of energy
- B** Using fossil fuels
- C** Improving efficiency in manufacturing
- D** Increasing the use of nuclear power generation

Example- 2 marks

Table 1 shows the number of food and drink containers successfully recycled by a manufacturer in 2010 and 2017.

Recycling of composite food and drink containers	
2010	32 billion tonnes
2017	46 billion tonnes

What is the percentage increase in recycling of composite food and drink containers between 2010 and 2017?

SECTION B

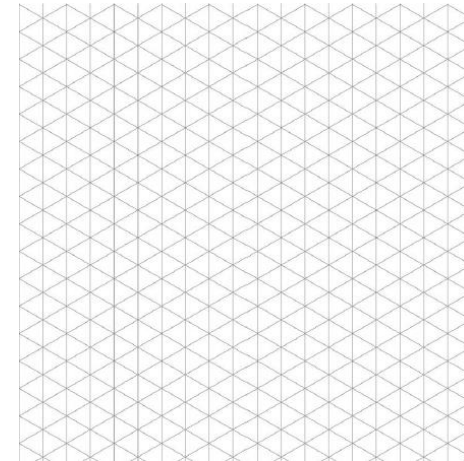
Choose **one** of the addition processes in the table below.

Lamination	Printing	Sewing
Soldering	Welding	

In the box below, use notes **and** sketches to describe your chosen process. Identify the equipment used in your chosen process. (6 marks)

SECTION C

Try drawing an orthographic projection and turn it into isometric below. (5 marks)



Analyse and evaluate the kettles in terms of the **three** features identified below.

You should not use an analysis or evaluation point more than once.
Ergonomics 4 marks

Functionality 4 marks

Innovation 4 marks