



*Finchley Catholic High School*  
*Da Nobis Recta Sapere*

# DESIGN & TECHNOLOGY



## PERSONAL LEARNING CHECKLIST

*Key Stage 4*



# GCSE REVISION CHECKLIST

As we work through the projects & assessments it is important to track your progress and confidence.

## Core technical principles 20 marks

A mixture of multiple choice and short answer questions assessing a breadth of technical knowledge and understanding.

SECTION	RAG RATED (DATE EACH TIME)			REVISED	TEST
<b>SECTION 1 NEW AND EMERGING TECHNOLOGIES</b>					
<i>2 Sustainability And The Environment</i>					
<i>4 Production Techniques And Systems</i>					
<i>5 Informing Design Decisions</i>					
<b>SECTION 2 ENERGY, MATERIALS, SYSTEMS AND DEVICES</b>					
<i>8 Modern Materials</i>					
<i>9 Smart Materials</i>					
<i>10 Composite Materials &amp; Technical Textiles</i>					
<i>11 Systems Approach To Designing</i>					
<i>13 Mechanical Devices</i>					
<b>SECTION 3 MATERIALS AND THEIR WORKING PROPERTIES</b>					
<i>15 Natural And Manufactured Timbers</i>					
<i>16 Metals And Alloys</i>					
<i>17 Polymers</i>					



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## Specialist technical principles 30 marks

Several short answer questions (2–5 marks) and one extended response to assess a more in depth knowledge of technical principles.

SECTION	RAG RATED (DATE EACH TIME)			REVISED	TEST
<b>SECTION 4 COMMON SPECIALIST TECHNICAL PRINCIPLES</b>					
<i>19 Forces And Stresses On Materials And Objects</i>					
<i>20 Improving Functionality</i>					
<i>22 The Six Rs</i>					
<i>23 Scales Of Production</i>					
<b>SECTION 5B TIMBER BASED MATERIALS</b>					
<i>27 Sources, Origins And Properties</i>					
<i>28 Working With Timber Based Materials</i>					
<i>29 Commercial Manufacturing, Surface Treatments And Finishes</i>					
<b>SECTION 5C METAL BASED MATERIALS</b>					
<i>30 Sources, Origins And Properties</i>					
<i>31 Working With Metal Based Materials And Fixings</i>					
<i>32 Commercial Manufacturing, Surface Treatments And Finishes</i>					
<b>SECTION 5D POLYMERS</b>					
<i>33 Sources, Origins And Properties</i>					
<i>34 Working With Polymer Based Materials And Fixings</i>					
<i>35 Commercial Manufacturing And Quality Control</i>					



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## Designing and making principles 50 marks

A mixture of short answer and extended response questions.

SECTION	RAG RATED (DATE EACH TIME)			REVISED	TEST
<b>SECTION 6 DESIGNING PRINCIPLES</b>					
<i>42 Investigation, Primary And Secondary Data</i>					
<i>43 The Work Of Others</i>					
<i>44 Design Strategies</i>					
<i>45 Communication Of Design Ideas And Prototype Development</i>					
<b>SECTION 7 MAKING PRINCIPLES</b>					
<i>46 Selection Of Materials And Components</i>					
<i>47 Tolerances And Allowances</i>					
<i>48 Material Management And Marking Out</i>					
<i>49 Specialist Tools; Equipment, Techniques And Processes</i>					
<i>50 Surface Treatment And Finishes</i>					