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Centre number

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I declare this is my own work.

A-level

DESIGN AND TECHNOLOGY: PRODUCT DESIGN

Paper 1 Technical Principles

Wednesday 5 June 2024

Afternoon

Time allowed: 2 hours 30 minutes

Materials

For this paper you must have:

- normal writing and drawing instruments.
- a scientific calculator.

Instructions

- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 120.

For Examiner's Use	
Question	Mark
1–2	
3–4	
5	
6	
7–8	
9	
10–11	
12	
13–14	
15–16	
17–18	
19	
20–21	
TOTAL	

Aqa Design And Technology Resistant Materials Past Paper

**Bryan Williams, Louise
Attwood, Pauline Treuherz, Dave
Larby, Ian Fawcett, Dan Hughes**

Aqa Design And Technology Resistant Materials Past Paper:

Learning to Teach Design and Technology in the Secondary School Gwyneth Owen-Jackson, 2015-05-15 Learning to Teach Design and Technology in the Secondary School is established as a core text for all those training to teach Design and Technology in the secondary school It helps you develop subject knowledge acquire a deeper understanding of the role purpose and potential of Design and Technology within the secondary curriculum and provides the practical skills needed to plan teach and evaluate stimulating and creative lessons This third edition has been fully updated in light of the latest curriculum policy and theory as well as exciting changes in the field of design and technology Designed to be read as a course or dipped into to for support and advice it covers Developing areas of subject knowledge Health and safety Planning lessons Organising and managing the classroom Teaching and learning with digital technologies Teaching wider issues through design and technology Assessment issues Your own professional development Bringing together insights from current educational theory and the best contemporary classroom teaching and learning this book will prove an invaluable resource for all student and newly qualified teachers as well as their mentors who aspire to become effective reflective teachers

AQA GCSE (9-1) Design and Technology: Paper and Boards Bryan Williams, Louise Attwood, Pauline Treuherz, Dave Larby, Ian Fawcett, Dan Hughes, 2017-08-31 Exam Board AQA Level GCSE Subject D T First Teaching September 2017 First Exam June 2019 Build in depth understanding and inspire your students to tackle design challenges both practically and creatively with a textbook that delivers the Core Technical plus Specialist Technical and Design Making Principles needed for the 2017 AQA D T GCSE The insight of our author team will build topic knowledge including the technical principles of materials with which you are less familiar while focusing on the specialist principles of paper and boards in more depth to ensure you can navigate the specification with confidence whilst your students ideas flourish Trusted author team of specialist teachers and those with examining experience Build topic knowledge with learning objectives directly linked to the specification and short activities to reinforce understanding Develop mathematical and scientific knowledge and understanding with activities that link topics to maths and science Inspire your students as they undertake the iterative design process with examples of imaginative design and make tasks and a look at how to approach the Non Exam Assessment Check knowledge and understanding with end of topic summaries and practice questions for the written exam

AQA GCSE (9-1) Design and Technology: All Material Categories and Systems Bryan Williams, Louise Attwood, Pauline Treuherz, Dave Larby, Ian Fawcett, Dan Hughes, 2017-07-31 Exam Board AQA Level GCSE Subject D T First Teaching September 2017 First Exam June 2019 Build in depth understanding and inspire your students to tackle design challenges both practically and creatively with a textbook that delivers the Core Technical plus Specialist Technical and Design Making Principles needed for the 2017 AQA D T GCSE The insight of our author team will build topic knowledge including the technical principles of materials with which you are less familiar to ensure you can navigate the specification

with confidence whilst your students ideas flourish Trusted author team of specialist teachers and those with examining experience Build topic knowledge with learning objectives directly linked to the specification and short activities to reinforce understanding Develop mathematical and scientific knowledge and understanding with activities that link topics to maths and science Inspire your students as they undertake the iterative design process with examples of imaginative design and make tasks and a look at how to approach the Non Exam Assessment Check knowledge and understanding with end of topic summaries and practice questions for the written exam

The Essentials of AQA Design and Technology Brian Russell,2003 *My Revision Notes: AQA GCSE (9-1) Design and Technology: Paper and Boards* Ian Fawcett,Debbie Tranter,Pauline Treuherz,2018-07-30 Exam board AQA Level GCSE Subject Design and Technology First teaching September 2017 First exams Summer 2019 Target success in AQA GCSE 9 1 Design and Technology with this proven formula for effective structured revision Key content coverage is combined with exam style tasks and practical tips to create a revision guide that students can rely on to review strengthen and test their knowledge This revision guide is for you if you have chosen to study papers and boards in greater depth With My Revision Notes every student can plan and manage a successful revision programme using the topic by topic planner consolidate subject knowledge by working through clear and focused content coverage test understanding and identify areas for improvement with regular Now Test Yourself tasks and answers improve exam technique through practice questions expert tips and examples of typical mistakes to avoid get exam ready with extra quick quizzes and answers to the practice questions available online

Design and Technology in your School HildaRuth Beaumont,Torben Steeg,2024-03-29 This book addresses the practicalities of establishing Design Technology as a worthwhile subject in the secondary school Written by two leading experts in the field it explores the way in which Design Technology may be taught so that it makes a unique contribution to the learning of young people It provides Design Technology departments with practical information and guidance around key issues such as planning and assessing the subject justifications for teaching it as well as ways in which schools can manage and sustain teaching Design Technology long term In dealing with the breadth and depth of Design Technology this book Provides rationales for Design Technology which go far beyond the usual limited economic utility argument Considers the underpinning philosophies of technology and design and the essential place of values clarifying the substantive and disciplinary knowledge Discusses five important issues decolonising the subject gender disruption global warming pollution and waste Describes how a Design Technology curriculum may be planned taking into account content resources and learning activities to achieve breadth balance and progression Defines how the subject may be taught through a range of complimentary methods Considers a wide range of assessment practices that meet the varied learning embedded within the subject Discusses how support for the subject can be achieved by collaboration with a wide range of interested parties This book is a valuable resource for heads of departments trainee and practicing teachers those engaged in further professional development and all who want to make

the learning of Design Technology an interesting motivating and exciting experience for young people **Resistant Materials** Gerald Eyers, John Huxtable, 2005 This brand new course for AQA GCSE Resistant Materials has been replaced by a new specification for first teaching from September 2009 **AQA AS/A-Level Design and Technology: Product Design** Will Potts, Julia Morrison, Ian Granger, Dave Sumpner, 2018-01-08 Exam Board AQA Level AS A level Subject Design Technology First Teaching September 2017 First Exam June 2018 Encourage your students to be creative innovative and critical designers with a textbook that builds in depth knowledge and understanding of the materials components and processes associated with the creation of products Our expert author team will help guide you through the requirements of the specification covering the core technical and designing and making principles needed for the 2017 AQA AS and A level Design and Technology Product Design specification Explores real world contexts for product design Develops practical skills and theoretical knowledge and builds student confidence Supports students with the application of maths skills to design and technology Helps guide students through the requirements of the Non Exam Assessments and the written exams at both AS and A Level **My Revision Notes: AQA A Level Design and Technology: Product Design** Julia Morrison, Dave Sumpner, 2018-07-30 Exam board AQA Level A level Subject Design and Technology First teaching September 2017 First exams Summer 2019 Target success in AQA A Level Design and Technology Product Design with this proven formula for effective structured revision Key content coverage is combined with exam style tasks and practical tips to create a revision guide that students can rely on to review strengthen and test their knowledge With My Revision Notes every student can plan and manage a successful revision programme using the topic by topic planner consolidate subject knowledge by working through clear and focused content coverage test understanding and identify areas for improvement with regular Now Test Yourself tasks and answers improve exam technique through practice questions expert tips and examples of typical mistakes to avoid get exam ready with extra quick quizzes and answers to the practice questions available online *AQA GCSE (9-1) Design and Technology: Timber, Metal-Based Materials and Polymers* Bryan Williams, Louise Attwood, Pauline Treuherz, Dave Larby, Ian Fawcett, Dan Hughes, 2017-08-31 Exam Board AQA Level GCSE Subject D T First Teaching September 2017 First Exam June 2019 Build in depth understanding and inspire your students to tackle design challenges both practically and creatively with a textbook that delivers the Core Technical plus Specialist Technical and Design Making Principles needed for the 2017 AQA D T GCSE The insight of our author team will build topic knowledge including the technical principles of materials with which you are less familiar while focusing on the specialist principles of timber metal based materials and polymers in more depth to ensure you can navigate the specification with confidence whilst your students ideas flourish Trusted author team of specialist teachers and those with examining experience Build topic knowledge with learning objectives directly linked to the specification and short activities to reinforce understanding Develop mathematical and scientific knowledge and understanding with activities that link topics to maths and science Inspire your students as they

undertake the iterative design process with examples of imaginative design and make tasks and a look at how to approach the Non Exam Assessment Check knowledge and understanding with end of topic summaries and practice questions for the written exam

The book delves into Aqa Design And Technology Resistant Materials Past Paper. Aqa Design And Technology Resistant Materials Past Paper is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Aqa Design And Technology Resistant Materials Past Paper, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 2: Essential Elements of Aqa Design And Technology Resistant Materials Past Paper
 - Chapter 3: Aqa Design And Technology Resistant Materials Past Paper in Everyday Life
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 - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Aqa Design And Technology Resistant Materials Past Paper.

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