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Mathematics

Paper 3 (Calculator)

Higher Tier

June 2020 - Morning
Time: 1 hour 30 minutes

Paper Reference

1MA1/3H

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided - *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may be used.**
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.



Information

- The total mark for this paper is 80.
- The marks for **each** question are shown in brackets - *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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**Great Britain: Parliament: House of
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Higher Student Book Module 3 Keith Pledger,2006-10-01 With ten year s experience of publishing for Edexcel Mathematics and as a preferred partner of Edexcel we can offer the best option for the new two tier modular specification in September 2006

Edexcel Gcse Modular Maths Pledger,2003 Offering students support for the Edexcel GCSE modular specification this book provides an easy to follow course structure extra practice questions and revision exercises tailored to each module Page numbers for the Edexcel GCSE mathematics student books are given for reference

Edexcel Gcse Modular Maths: Higher Stage 3 - Homework and Consolidation Keith Pledger,2003-11-14 These books complement and extend the Edexcel GCSE Modular Mathematics Examples and Practice Books for Higher Stage 3

GCSE Maths Edexcel 2010 ,2010

The Essentials of GCSE Edexcel Maths Hefin Rees,P. Wharton,John Proctor,2006

New Grade 9-1 GCSE Maths Edexcel Student Book - Foundation (with Online Edition) CGP Books,2019-05

Edexcel GCSE Mathematics Tony Clough,Trevor Johnson,2007-02-01 Edexcel GCSE Mathematics The right formula for success Edexcel s own teaching resources for the two tier GCSE Maths specifications

Higher Gcse Maths 4-9 Michael White,2015

Pearson Edexcel GCSE (9-1) Mathematics Higher Student Book 1 Katherine Pate,Naomi Norman,2020-06-11 The new edition of Pearson Edexcel GCSE 9 1 Mathematics Higher Student Book 1 develops reasoning fluency and problem solving to boost students confidence and give them the best preparation for GCSE study Purposefully updated based on feedback from thousands of teachers and students as well as academic research and impact studies Bolsters preparation for GCSE with new questions that reflect the latest exams and a format that seamlessly aligns with our GCSE Maths courses Shown to help GCSE students master maths with confidence with a UK specific approach that draws upon global best practices and cutting edge research Tried and tested differentiation with a unique unit structure and improved pacing to support every student s progress Extra skills building support problem solving and meaningful practice to consolidate learning and deepen understanding New additions to boost progression and post GCSE study such as Future skills questions and Working towards A level features

Foundation Gcse Maths Michael White,2010-08-01

GCSE Geography Edexcel B ,2020-07-16 A student friendly and engaging resource for the 2016 Edexcel GCSE Geography B specification this brand new course is written to match the demands of the specification As well as providing thorough and rigorous coverage of the spec this book is designed to engage students in their learning and to motivate them to progress

Edexcel GCSE Maths: Higher Marguerite Appleton,Dave Capewell,Derek Huby,Jayne Kranat,Geoff Fowler,Pete Mullarkey,Katherine Pate,James Nicholson,2015-11-05 Please note this title is suitable for any student studying Exam Board Edexcel Level GCSE Subject Mathematics First teaching September 2015 First exams June 2017 Edexcel GCSE Maths Higher Student Book has been created by experts to help deliver exam success in Edexcel s new Maths GCSE Written for Higher tier students the book focuses on developing students fluency in key mathematical skills and problem solving using carefully chosen examples and extensive practice Powered by MyMaths the book links directly to the ever popular web site offering students a further source of appropriate support

WJEC GCSE Geography Andy Leeder,Alan Brown,Gregg Coleman,2016-08-22 Help your students develop enquiring minds as they learn the geographical knowledge and skills they need through the enquiries of the new OCR B specification which include and up to date case studies a wide range of activities and exam style questions developed to support and stretch students of all abilities Supports students of all abilities through differentiated activities including scaffolded questions and extension questions Highlights opportunities for fieldwork throughout the book and includes guidance on carrying out fieldwork Develops students geographical skills including activities and clear explanations of how to use mathematical and statistical skills Helps students gain confidence for the exam with a variety of exam style practice questions at different levels with tips on how to approach them

Edexcel Igcse Mathematics B David Turner,W. R. J. Waite,2010-06-01 Providing complete coverage of the 2009 Edexcel IGCSE mathematics specification this engaging book makes the information accessible for every student It contains exam practice throughout with revision questions and practice exam questions

Edexcel GCSE Computer Science Student Book Ann Weidmann,David Waller,Alex Hadwen-Bennett,Chris Charles,Shaun Whorton,Jason Welch,2016-05-31 Supporting great computer science teaching through a scenario based approach to problem solving and computational thinking Our resources are designed to inspire and motivate students by relating and applying their skills to real world contexts and making learning relevant

Assessing 21st Century Skills National Research Council, Division of Behavioral and Social Sciences and Education, Board on Testing and Assessment, Committee on the Assessment of 21st Century Skills, 2011-10-16 The routine jobs of yesterday are being replaced by technology and or shipped off shore In their place job categories that require knowledge management abstract reasoning and personal services seem to be growing The modern workplace requires workers to have broad cognitive and affective skills Often referred to as 21st century skills these skills include being able to solve complex problems to think critically about tasks to effectively communicate with people from a variety of different cultures and using a variety of different techniques to work in collaboration with others to adapt to rapidly changing environments and conditions for performing tasks to effectively manage one s work and to acquire new skills and information on one s own The National Research Council NRC has convened two prior workshops on the topic of 21st century skills The first held in 2007 was designed to examine research on the skills required for the 21st century workplace and the extent to which they are meaningfully different from earlier eras and require corresponding changes in educational experiences The second workshop held in 2009 was designed to explore demand for these types of skills consider intersections between science education reform goals and 21st century skills examine models of high quality science instruction that may develop the skills and consider science teacher readiness for 21st century skills The third workshop was intended to delve more deeply into the topic of assessment The goal for this workshop was to capitalize on the prior efforts and explore strategies for assessing the five skills identified earlier The Committee on the Assessment of 21st Century Skills was asked to organize a workshop that reviewed the assessments and related research for each of the five skills identified at the previous workshops with special attention to recent developments in technology enabled assessment of critical thinking and problem solving skills In designing the workshop the committee collapsed the five skills into three broad clusters as shown below Cognitive skills nonroutine problem solving critical thinking systems thinking Interpersonal skills complex communication social skills team work cultural sensitivity dealing with diversity Intrapersonal skills self management time management self development self regulation adaptability executive functioning Assessing 21st Century Skills provides an integrated summary of the presentations and discussions from both parts of the third workshop

2012 GCSE English results Great Britain: Parliament: House of Commons: Education Committee, 2013-06-11 The 2012 GCSE English results prompted significant controversy which ultimately resulted in an application for judicial review This report sets out the background to these events and identifies lessons to be learned The problems with GCSE English can be traced back to the 2007 09 development phase of the qualification in particular the turbulence which resulted from the shift away from a mostly linear to a modular system combined with a high proportion of controlled assessment and generous marking tolerances Exam board experts raised concerns at the time but these were not acted upon by the regulator the then interim Ofqual Further difficulties arose because of pressures from the school accountability system The problems experienced with GCSE English in 2012 highlighted serious weaknesses in the moderation of speaking and listening with consequences for grade awarding The current status of Ofqual as an independent regulator accountable to Parliament is the right one However the Coalition Government is bringing in wholesale changes to GCSEs and A levels to a tight timetable and at the same time Ofqual must have systems in place The Committee is also concerned that there is a rush towards separate exam systems for England Wales and Northern Ireland without careful reflection on what might be lost or consensus that this is the right thing to do

Edexcel Linear ,2010 This teacher s pack contains everything you need to deliver effective lessons in mathematics with confidence for students working at Grades D to A

GCSE Maths Edexcel Higher Student Book (Collins GCSE Maths) Kevin Evans, Keith Gordon, Brian Speed, Michael Kent, 2021-01-01 Exam Board Edexcel Level Subject GCSE Maths First teaching September 2015 First exams June 2017 Endorsed by Edexcel

Achieve Your Target Grade in GCSE Maths in Four Weeks Jeevan Singh, 2015

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