

MARK SCHEME for the May/June 2013 series

0580/21

0580 MATHEMATICS

Paper 2 (Extended), maximum raw mark 70

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June 2013 Mathematics Mark Scheme

Frank Banks, David Barlex



June 2013 Mathematics Mark Scheme:

Conceptual Maths Peter Mattock, 2023-04-05 Written by Peter Mattock Conceptual Maths Teaching about rather than just how to do mathematics in schools aims to empower teachers to support students on a comprehensive and coherent journey through school mathematics Showcasing the best models metaphors and representations it provides excellent examples explanations and exercises that can be used across the curriculum Concepts are at the heart of the study of mathematics They are the ideas that remain constant whenever they are encountered but which combine and build upon each other to create the mathematical universe It is the structure of each concept that gives rise to the procedures that are used in calculation and problem solving and by learning about these structures a learner can make sense of how different processes work and use them flexibly as need demands In his first book *Visible Maths* Peter Mattock focused on the use of representations and manipulatives as images and tools and how this can provide a window into some of these mathematical structures His aim in *Conceptual Maths* is to go deeper beyond the procedures and to shed greater light on the structures of the subject's different concepts The book explores how a variety of visual tools and techniques can be used in the classroom to deepen pupils' understanding of mathematical structures concepts and operations including number addition and subtraction multiplication and multiples division and factors proportionality functionality measures accuracy probability shape and transformation and vectors among many others In so doing Peter equips teachers with the confidence and practical know how to help learners assimilate knowledge of mathematical concepts into their schema and take their learning to the next level Containing numerous full colour diagrams and models to illustrate the conceptual takeaways and teaching techniques discussed *Conceptual Maths* also includes a glossary covering the key mathematical terms Suitable for teachers of maths in primary secondary and post 16 settings

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Teaching STEM in the Secondary School Frank Banks, David Barlex, 2020-12-29 This book looks at the purpose and pedagogy of STEM teaching and explores the ways in which STEM subjects can interact in the curriculum to enhance student understanding achievement and motivation By reaching outside their own classroom teachers can collaborate across STEM subjects to enrich learning and help students relate school science technology and maths to the wider world Packed with ideas and practical details for teachers of STEM subjects the new revised edition of this book considers what the STEM subjects contribute separately to the curriculum and how they relate to each other in the wider education of secondary school students describes and evaluates different curriculum models for STEM suggests ways in which a critical approach to the pedagogy of the classroom laboratory and workshop can support and encourage all pupils to engage fully in STEM

addresses the practicalities of introducing organising and sustaining STEM related activities in the secondary school looks to ways schools can manage and sustain STEM approaches in the long term This new revised edition is essential reading for trainee and practising teachers those engaged in further professional development and all who wish to make the learning of science technology engineering and mathematics an interesting motivating and exciting experience for their students

Validating Technological Innovation David Coniam, Peter Falvey, 2016-04-02 This book discusses Hong Kong's use of onscreen marking OSM in public examinations Given that Hong Kong leads the way in OSM innovation this book has arisen from a recognised need to provide a comprehensive coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong The authors discuss their experience of the validation process demonstrating how high stakes innovation should be fully validated by a series of research studies in order to satisfy key stakeholders

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