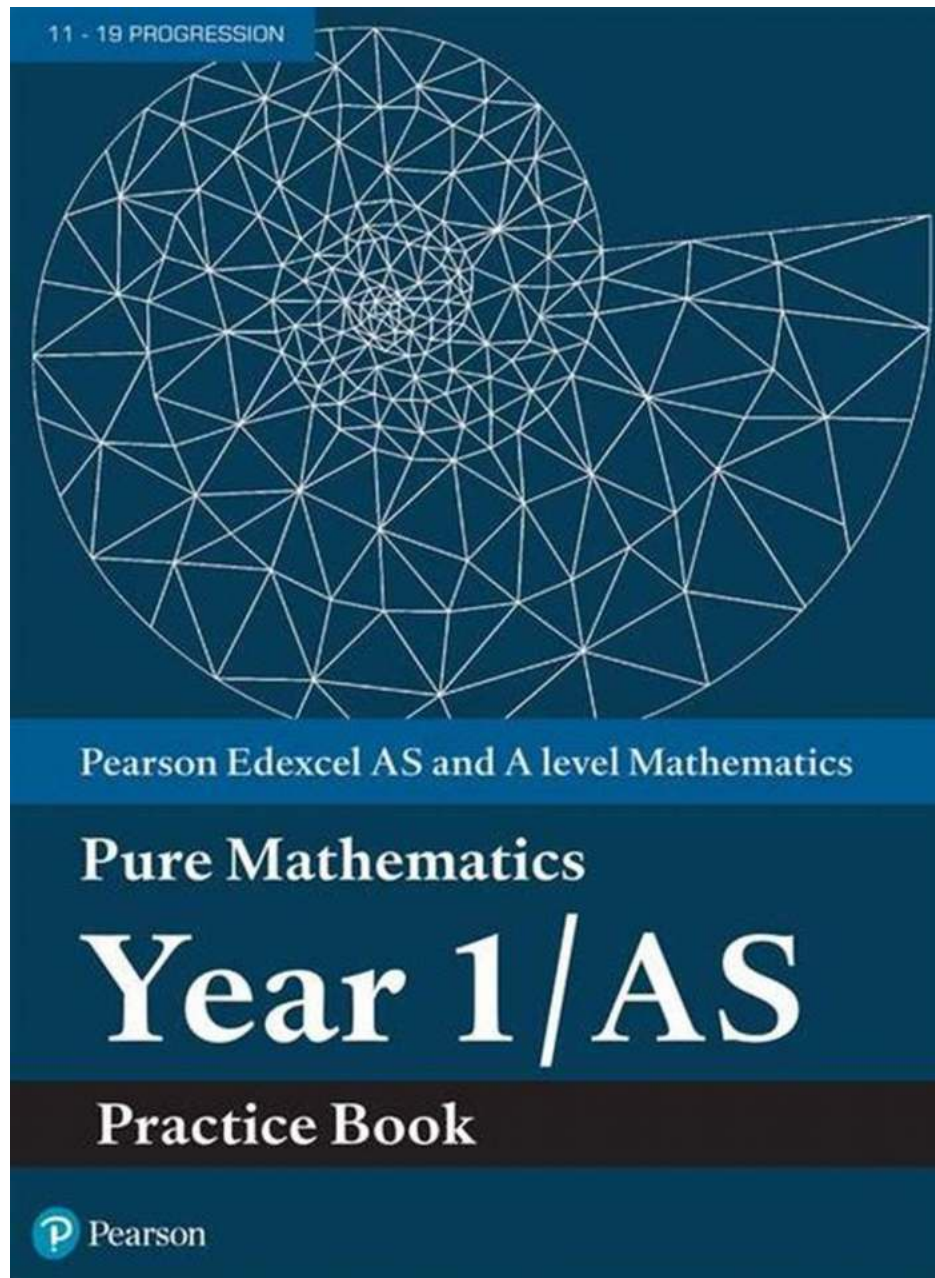# The Ultimate Guide to the New Edexcel AS Level Mathematics Student Textbook: Pure Mathematics Year 1AS

Welcome to the ultimate guide on the highly anticipated New Edexcel AS Level Mathematics Student Textbook: Pure Mathematics Year 1AS! This

comprehensive textbook serves as an essential tool for students embarking on their exciting mathematical journey at the AS level. Combining clear explanations, comprehensive examples, and challenging exercises, this book offers a solid foundation for mastering Pure Mathematics.

Why Choose the New Edexcel AS Level Mathematics Student Textbook?

With the vast array of textbooks available, one might wonder why the New Edexcel AS Level Mathematics Student Textbook stands out among the rest. Here are some compelling reasons:

New Edexcel AS & A-Level Mathematics Student Textbook - Pure Mathematics Year 1/AS: The Ultimate Course Companion by CGP Books (Kindle Edition)

★★★★☆ 4.6 out of 5

Language	: English
File size	: 25710 KB
Print length	: 524 pages
Screen Reader	: Supported

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- **Aligned with the Edexcel AS Level Mathematics Curriculum:** This textbook specifically caters to the Edexcel AS level curriculum, ensuring that students cover all the essential topics required for success.

- **Comprehensive Coverage:** From algebraic manipulation to calculus and trigonometry, this textbook covers all areas of Pure Mathematics in-depth to provide a holistic understanding of the subject.

- **Clear Explanations and Examples:** With step-by-step explanations and numerous examples, students can easily grasp complex mathematical concepts and apply them to problem-solving.

- **Challenging Exercises:** The textbook offers a wide range of exercises, including exam-style questions, to enhance students' problem-solving abilities and prepare them for assessments.

- **Supplementary Resources:** In addition to the textbook, students can access online resources and support materials to further enhance their learning experience.

- **Expert Authors:** The textbook is authored by a team of experienced mathematics educators and examiners, ensuring content accuracy and relevance.

The Structure of the Textbook

The New Edexcel AS Level Mathematics Student Textbook: Pure Mathematics Year 1AS follows a logical structure, guiding students through each chapter with precision. Here's an overview of the book's structure:

Chapter 1: Algebraic Manipulation

This chapter introduces students to the fundamental techniques of algebraic manipulation, including factorization, simplification, and solving polynomial equations. It lays the foundation for advanced algebraic concepts covered in subsequent chapters.

Chapter 2: Functions

In this chapter, students explore the concept of functions, understanding their domain, range, and properties. They learn about polynomial, exponential,

logarithmic, and trigonometric functions and their applications.

Chapter 3: Coordinate Geometry in the (x, y) Plane

Here, students delve into coordinate geometry, understanding the relationship between lines, circles, and other geometric shapes. They master techniques such as finding equations of lines and determining the intersection points of curves.

Chapter 4: Sequences and Series

This chapter focuses on sequences and series, exploring arithmetic and geometric progressions, as well as the convergence and divergence of series. Students gain a deeper understanding of infinite mathematical structures.

Chapter 5: Differentiation

Students are introduced to the fundamental concept of differentiation in this chapter. They learn how to differentiate various types of functions, including polynomials, exponentials, logarithms, and trigonometric functions.

Chapter 6: Integration

In this chapter, students explore integration, understanding the anti-derivative concept and techniques used in integrating different functions. They also learn about the applications of integration in real-life situations.

Chapter 7: Vectors

This chapter introduces students to vectors, teaching them how to represent and manipulate vectors geometrically and algebraically. They explore the dot and cross product operations and their applications in physics and mechanics.

Chapter 8: Numerical Methods

The final chapter focuses on numerical methods, equipping students with skills to approximate solutions to mathematical problems that cannot be solved analytically. They learn techniques such as Newton-Raphson and the Trapezium Rule.

The New Edexcel AS Level Mathematics Student Textbook: Pure Mathematics Year 1AS is an indispensable resource for students embarking on their AS level journey in Mathematics. Its comprehensive coverage, clear explanations, and challenging exercises make it the ultimate guide for achieving success. So, gear up, grab a copy, and unlock the doors to your mathematical potential!

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Achieve the best grades in 2022 or 2023 with this complete course book from CGP!

This book covers all the content needed for AS and Year 1 of the Edexcel Pure Maths A-Level course and is fully up to date for the latest specifications.
It has crystal-clear notes on all the theory for every topic, including annotated worked examples and explanations; hundreds of challenging questions for every
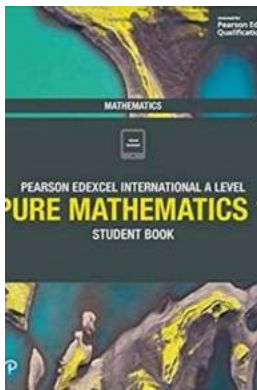
chapter, including problem-solving and modelling; and a realistic Practice Paper with a complete mark scheme.

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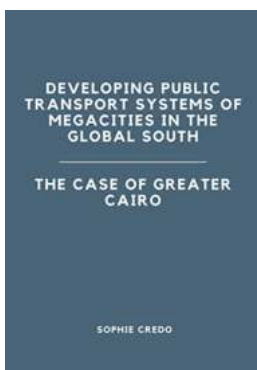
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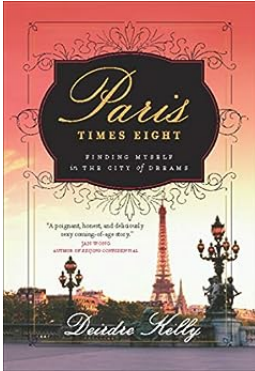
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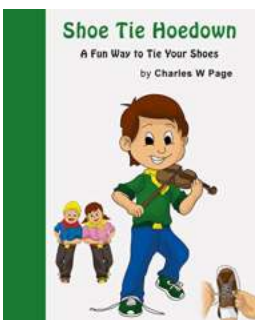
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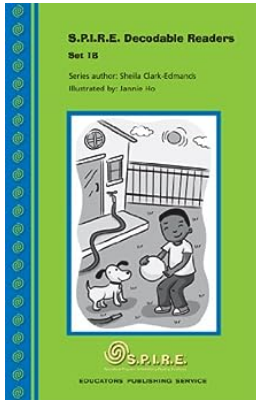
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