

2015






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SCHOOL SOLUTIONS

Secondary Mathematics

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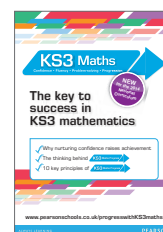
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NEW FOR 2014

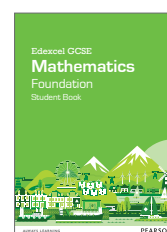
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NEW EDITION

Prentice Hall Mathematics: Course 1, Course 2, Accelerated Grade 7, and Course 3 Common Core ©2013

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Supporting you through curriculum and standards changes

With ever-changing curricula and standards, we realise there is uncertainty and upheaval. The demands are increasingly challenging and children and teachers are being pushed further and faster than ever.

Our goal is to provide you with support to ensure your school is prepared for change and to provide the easiest possible transition to teaching the new curriculum or standards with confidence.




Common Core State Standards

If you have decided to implement the Common Core State Standards (CCSS) in your school, we can help you by providing CCSS aligned resources, assessment solutions and professional development to help make implementation easier. Look out for the CC symbol in this catalogue and speak to your local representative to learn more.

commoncore.pearsoned.com

UK Secondary Curriculum

There are changes happening at Key Stage 3 (statutory in England from Sept 2014), along with reforms in GCSE and A Levels in 2015 and 2016. As teachers you need the support and materials to help you plan and implement the new specifications successfully and your learners will need help transitioning to each next stage. Our new resources have been designed to do just that.

A hand is shown in the foreground, reaching out towards a glowing digital interface. The interface features a grid of images in the upper left, a large glowing cube in the upper right, and a background of floating green and blue particles. The overall color scheme is teal and green.

21st Century learners need engaging and personalised learning experiences that lay the groundwork for higher education and career readiness. Today's teachers need flexible learning environments that enable them to teach in a variety of ways with easy-to-use systems to monitor achievement and personalise instruction.

The transition to digital can be overwhelming and we understand that each school is on a different path. Your local Pearson Consultant can talk you through our digital solutions best suited to meet your unique needs.

21st Century
learning starts with
the transition to digital

A hand is shown from the bottom left, holding a glowing, multi-faceted cube. Each face of the cube displays different scenes of students in a classroom, some using laptops and others interacting. The background is a dark teal color with numerous bright, out-of-focus light spots, creating a starry or digital atmosphere.

Digital resources for personalised learning

Pearson delivers digital curricula resources to personalise, deliver and track progress so every student can learn at his or her own pace in the classroom and at home.

Look out for the green digital boxes in this catalogue which explain the technology and technical requirements within each programme.

Online Digital Path

Online Digital Paths are the platforms that deliver the teaching and learning content and tools. There are a handful of different platforms across our global portfolio. The following two pages give more information on these.

eBooks and eTexts

For US eBooks download Pearson eText App. UK eBooks are within the ActiveLearn online digital paths.

App

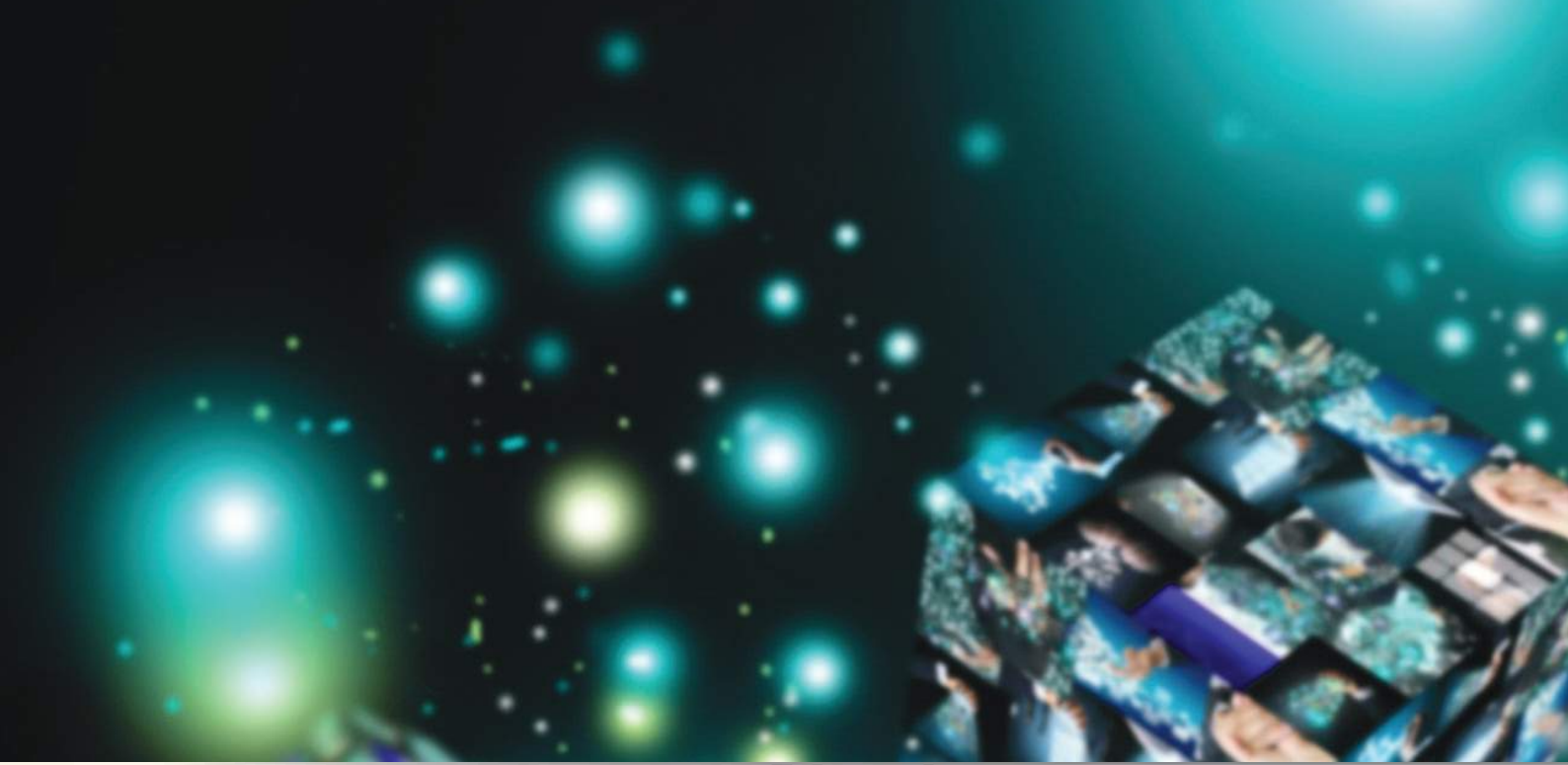
Perfect for today's digital natives our pupil Apps enhance instruction. We also have teacher Apps which allow the teacher to differentiate instruction and track progress in real time.

IWB

Boost whole-class involvement with these interactive resources.

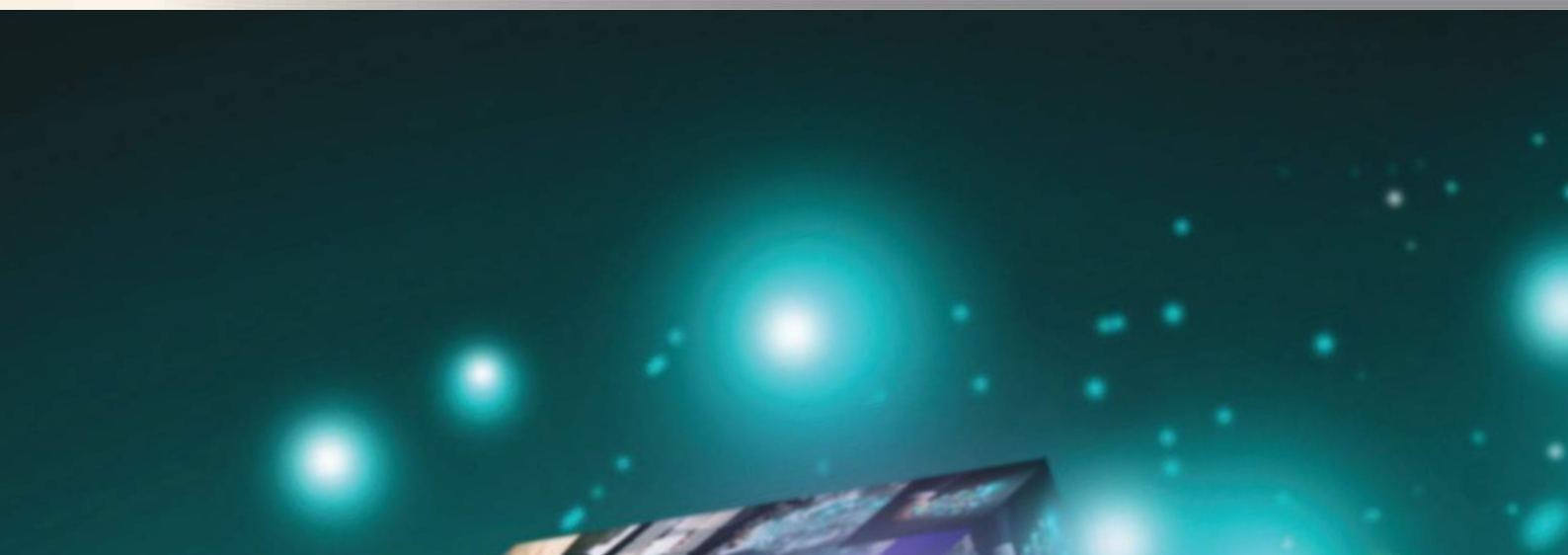
CD/DVD

Schools without reliable internet access can enjoy the interactive aspects of some of our digital resources with CD/DVD products.




Online Digital Paths for personalised learning


Our digital teaching and learning resources are delivered across a handful of platforms. Read on to learn more about how they can help you to easily and effectively personalise learning for all students. Then look out for these in the digital boxes on each product page, to understand which platform powers each product.






ActiveLearn is a motivating and supportive online independent learning resource for the classroom and at home – for Key Stage 3, GCSE and A level students. It supports the learner with an ActiveCourse providing student activities and exercises, and an enhanced interactive ActiveBook version of the associated course text book. iPad compatible. 



Realize gives you the power to raise the interest and achievement of every student. It offers rich and engaging content, embedded assessment with instant data, and flexible tools to manage your classroom. For teachers following a US curriculum, it provides a source of premium content correlated to the Common Core Standards. Realize will soon host most of our K12 US resources, starting with **digits**. iPad compatible. 



These platforms organise the US K12 products in one place. Teachers can do all their planning and tracking in the same location to save time. It extends learning beyond the textbook by providing rich and digital content for digital natives. It allows transparency of student progress to enable the teacher to effectively offer personalised instruction for all. 

FRONTER

The world's favourite classroom

Fronter is the leading learning platform for schools, delivered as a service over the internet. With about 160 million logins per year, Fronter is transforming schools – the way technology has transformed the society our children are growing up in.

Global Community

What is the difference between a teacher in Helsinki, Abu Dhabi or São Paulo? Not much in our experience. Innovation in education is driven by teachers. Because the teacher is the key to pupils' success, Fronter was built to help teachers be great teachers.

Secure Environment

Fronter is a safe learning environment accessed via a web browser. You control the access rights. We host all your data in a private cloud where you have full ownership and control. We think that is important.

A World of Learning

Fronter is a collection of core tools for teaching and learning. But we believe in openness, which is why we have made it incredibly easy to use other apps and rich content from within Fronter. Every night we exchange data with hundreds of different systems securely, so that you can login in one place and find everything you need.

Leading the Way

Fronter is a pioneer product. The world has changed since it launched in 1998, but Fronter's commitment to helping teachers be great teachers has not. Fronter continues to evolve with the enthusiastic involvement of teachers all over the world. With Fronter you have thousands of colleagues supporting you in a modern approach to learning.



EQUELLA

Digital repository

EQUELLA provides one platform to house your teaching and learning, research, media and library content.

Content Tagging

EQUELLA raises the visibility and usage of high quality and relevant content, providing teachers and students with the most effective and engaging content.

Copyright and Digital Rights Management

Via attribution of ownership across courses and delivery platforms, users can ensure their content is protected and complies with copyright regulations.

Efficient Reporting of Content Usage

With a consistent structure and analytics in place to measure usage and effectiveness of learning content, educators can make better decisions about what materials to use in their courses.

Extended LMS Integrations

EQUELLA integrates with third party systems, including popular Learning Management Systems; Fronter, Pearson LearningStudio, Moodle, Blackboard and Sakai.

Enhance your content with EQUELLA. Visit equella.com

PowerSchool

Student information system

The SIS

PowerSchool takes care of all your school administration and makes managing pupil data easy. Enjoy a full range of features including: attendance management, tracking and notification, assessment records, custom report cards, discipline management and reporting, centralised enrollment, timetables, emergency and medical information, school fee management all of which can be accessed via iPhone or Android compatible phones.

A SIS that involves teachers, pupils and parents

Powerschool is more than a tool for school administrators to do the 'office work'. Powerschool includes PowerTeacher, Pearson's web based classroom management solution with a range of functions that allows a teacher to stay better organised, freeing up time for teaching. Pupils take ownership of their learning by logging in to see grades and teacher comments. Parents can follow more closely their child's education online anywhere and anytime, with access to real-time grades and attendance, teacher feedback and more.

A SIS for school IT staff

Powerschool simplifies SIS administration with a secure, web-based architecture built on a robust JAVA framework and a powerful Oracle database. If you need it to be, it can be locally installed for self hosters and has a full complement of disaster-proof, redundancy-laden, security measures to help you sleep at night.

Visit powerschool.com to learn more



UK version now available

Because the route to success is different for everyone

SuccessMaker is an individualised learning programme that has been proven to significantly raise attainment in reading and maths when used at least three times a week by learners aged 4-14. The software is so clever, it engages pupils instantly, works out their level and keeps them progressing no matter what their starting point is. Forty years of research and development have gone into making SuccessMaker something quite special. In that time it has helped over 6 million pupils worldwide make progress in reading and maths.



A digital learning solution for Grades 6-12

Gradpoint is ideal for helping you meet your school's goals with flexible implementation options. Whether you need to provide digital core curriculum for whole-class instruction or supplemental curriculum for credit accrual or recovery, GradPoint can do it all. It gives teachers the power to truly personalize learning with rigorous, standards based core, elective honors and Advanced Placement curriculum delivered on an award-winning intuitive platform.



Speak to your local Pearson Consultant to learn more about any of these products.

Say **hello** to the new **aimsweb**.



Are you using the best assessment and data management for your needs?

Imagine being able to implement an all-in-one, low-cost, universal screening, benchmarking, and progress monitoring system in your school. Now you can! **aimsweb**®, today's leading web-based system, can be used with or instead of other benchmark and screening systems, that you may already be using. It provides you with the tools to benchmark all students and set achievement goals.

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ALWAYS LEARNING

PEARSON

Prentice Hall Mathematics

**NEW
EDITION**



*Course 1, Course 2, Accelerated Grade 7,
and Course 3 Common Core ©2013*

Better Technology. Better Results.

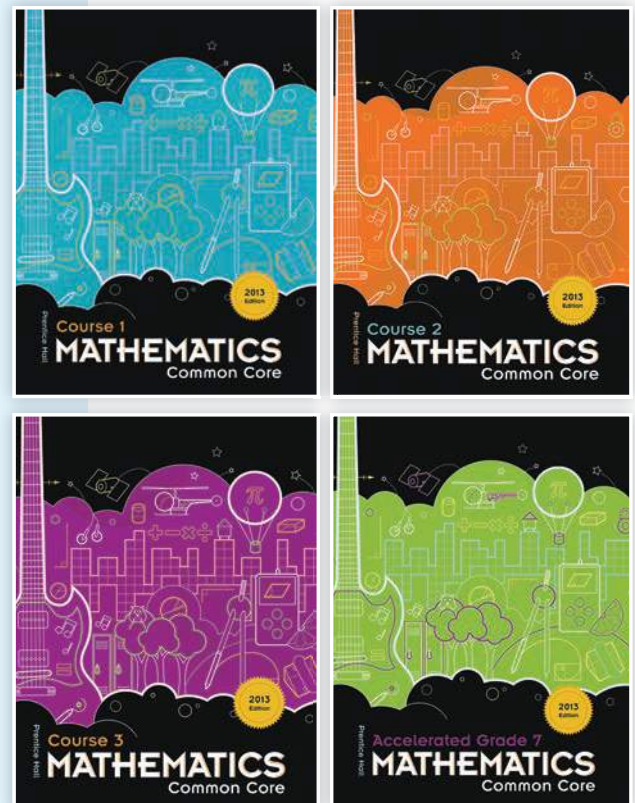
Prentice Hall Mathematics ©2013 pairs innovative technology features with quality content to ensure your students remain engaged as they build problem-solving skills and develop conceptual understanding.

A middle grades math program proven to work

PRES Associates, an independent research firm, conducted a study to assess the effectiveness of **Prentice Hall Mathematics** in helping students attain critical mathematics skills. The evaluation study employed a randomized control trial (RCT) design, which was utilized to meet the rigorous standards of the What Works Clearinghouse (WWC). The sample included 922 7th grade students who were assessed at the beginning and end of the year with the Iowa Test of Basic Skills (ITBS), Group Mathematics Assessment and Diagnostic Evaluation (GMADE), and Balanced Assessment of Mathematics (BAM) assessments.

Results that Matter!

Students attained statistically significant gains on the ITBS, GMADE, and BAM assessments over the course of just one year. In addition, students who used **Prentice Hall Mathematics** showed a significantly greater gain in math computation skills as compared to students who used other math programs.





- ✓ Online Digital Path (SuccessNet)
- ✓ eBooks* (Online, PC/Mac/Tablet)
- ✓ IWB
- ✓ CD

*Download Pearson eText for Schools App to access eBook.

PERFECT PARTNER

MathXL for School, a powerful homework, tutorial, and assessment program. See page 48.

Welcome to the future...

The **Online Student Resource Center** includes a suite of learning tools designed to help students study, learn, and succeed in class. The Student Resource Center includes the student edition eTexts, assessments, activities, videos, worksheets, and more!

Homework video tutors and active math activities engage your students through online active math activities. These activities give students the chance to review and practice important math concepts in an interactive environment. Lessons include built-in homework video tutor help—narrated by real teachers—that cover key concepts of the day's lesson, providing support for your student at home or at school.

Step-by-step support for Guided Problem Solving!

Solving problems can be overwhelming—Prentice Hall Mathematics helps students tackle them one step at a time. A Guided Problem Solving exercise in every lesson scaffolds support to build confidence and understanding.

A **Focused Lesson in Every Chapter** allows students to talk through the problem-solving process and provide students with an in-depth analysis of the problem-solving method while offering an opportunity to apply higher-level thinking skills.

Practice in the **All-in-One Workbook** has a three-step format provides a consistent method for approaching problems: Understand, plan and carry out and check. With step-by-step, scaffolded questions and additional problem for independent practice.

Meet the needs of all your students!

Daily Support in the Teacher's Edition helps you modify instruction to reach all learners.

Differentiated instruction for students with two versions of the All-in-One Student Workbook, Versions A & B

Version A, available in print and online, offers numerous practice and extension opportunities for each and every lesson all conveniently located within one workbook!

Version B, available online only, offers an adapted version of the student workbook with resources developed specifically for your struggling and special needs students.

- ▶ Daily Notetaking Guide
- ▶ Practice
- ▶ Guided Problem Solving
- ▶ Vocabulary and Study Skills

Individualized Intervention and Remediation with Success Tracker™ Online.

The best support for monitoring student progress and providing individualized remediation.

- ▶ Assess student progress - Assign built-in diagnostic and benchmark tests to track student progress.
- ▶ Diagnose student strengths and weaknesses – Each student automatically receives an assignment for specific skills or standards.
- ▶ Prescribe personalized remediation - Individual assignments include videos, tutorials, games, audio, and worksheets.
- ▶ Report - Comprehensive reports show test scores, standards mastery, and class performance.

Tools that make your job easier!

- ▶ Online Teacher Resource Center provides everything you need to teach all in one convenient place and is your quick solution for planning lessons.
- ▶ ExamView® Test Bank CD-ROM supports personalized assessment for every level of learning.
- ▶ myPearsonTraining.com for on-service, on demand training.

Course 1

1. Number Properties and Decimals
2. Expressions and Equations
3. Number Theory
4. Fraction Operations
5. Ratios and Percents
6. Integers and Rational Numbers
7. The Coordinate Plane
8. Geometry and Measurement
9. Data and Graphs

Course 2

1. Integers and Rational Numbers
2. Equations
3. Inequalities
4. Ratios, Rates, and Proportions
5. Percents
6. Geometry and Area
7. Surface Area and Volume
8. Analyzing Data
9. Probability

Accelerated Grade 7

1. Rational Numbers
2. Exponents
3. Equations
4. Inequalities
5. Ratios, Rates, and Proportions
6. Percents
7. Introduction to Functions
8. Analyzing Data
9. Probability
10. Geometry and Area
11. Geometry Continued
12. Surface Area and Volume
13. Transformations

Course 3

1. Real Numbers and the Coordinate Plane
2. Solving Linear Equations
3. Introduction to Functions
4. Graphing Functions
5. Systems of Linear Equations
6. Exponents
7. An Introduction to Geometry
8. Transformations
9. Geometry and Measurement
10. Data Analysis

Prentice Hall Mathematics: Course 1, Course 2, Accelerated Grade 7, and Course 3 Common Core ©2013

An earlier edition of this series is available. For Prentice Hall Mathematics Common Core: Courses 1, 2, and 3, see pages 16-17.

Course 1

Course 1 includes a combination of rational numbers, patterns, geometry and integers in preparation for one- and two-step equations and inequalities.

Guided problem solving strategies throughout the text provide students with the tools they need to be effective and independent learners. An emphasis on fractions solidifies student understanding of rational number operations in preparation for applying these skills to algebraic equations. Activity Labs throughout the text provide hands-on, minds-on experiences to reach all types of learners.

Course 1 Student Edition with 6-year digital access	978 256737 16 2
Course 1 Teacher Edition	978 256737 19 3
Course 1 Workbook	978 256737 21 6
Course 1 Workbook Teacher Guide	978 256739 21 0

Course 1 Student Digital Access 6-years	978 256743 37 8
Prentice Hall Mathematics Common Core Course 1, 2, 3 Examview CD	978 256709 83 1
Course 1 Student Digital Access 1-year	978 256870 66 1
Middle Grades Math Common Core Teacher Access Pack Course 1	978 256891 93 2

Course 2

Course 2 consists of a structured approach to a variety of topics such as ratios, percents, equations, inequalities, geometry, graphing and probability.

Test taking strategies provide a guide to problem solving approaches that are necessary for success on standardized tests. Checkpoint quizzes assess student understanding after every few lessons. Daily Guided Problem Solving in the text is supported by the Guided Problem Solving worksheet expanding the problem, guiding the student through the problem solving process and providing extra practice.

Course 2 Student Edition with 6-year digital access	978 256736 78 3
Course 2 Teacher Edition	978 256737 49 0
Course 2 Workbook	978 256736 89 9
Course 2 Workbook Teacher Guide	978 256739 58 6
Course 2 Student Digital Access 6-years	978 256743 38 5
Course 2 Student Digital Access 1-year	978 256885 27 6
Prentice Hall Mathematics Common Core Course 1, 2, 3 Examview CD	978 256709 83 1
Middle Grades Math Common Core Teacher Access Pack Course 2	978 256891 94 9

ACCELERATED GRADE 7	
Accelerated Grade 7 Student Edition with 6 Year Digital Access	978 269427 46 3
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Accelerated Grade 7 Student Digital Access 6-year	978 269427 48 7
Prentice Hall Mathematics Common Core Course 1, 2, 3 Examview CD	978 256709 83 1
Accelerated Grade 7 Teacher's Edition	978 269427 28 9

Course 3

Course 3 provides a solid foundation in order to fully prepare students for Algebra 1.

Chapters 1-3 focus on integers, rational numbers and real numbers in order to set the stage for equations, inequalities and functions. Real-World applications to the more abstract algebraic concepts are found throughout the text. More than five activity labs per chapter ensure students receive the visual and special instruction necessary to conceptualize these abstract concepts and prepare them for advanced math courses.

Course 3 Student Edition with 6-year digital access	978 256737 22 3
Course 3 Teacher Edition	978 256737 24 7
Course 3 Workbook	978 256737 23 0
Course 3 Student Digital Access 6-years	978 256743 39 2
Course 3 Workbook Teacher Guide	978 256739 59 3

Course 3 Student Digital Access 1-year	978 256870 69 2
Prentice Hall Mathematics Common Core Course 1, 2, 3 Examview CD	978 256709 83 1
Middle Grades Math Common Core Teacher Access Pack Course 3	978 256891 95 6

Prentice Hall Mathematics Common Core: Courses 1, 2, and 3 ©2011

This is an earlier edition - see page 15 for the latest edition.

STUDENT EDITIONS

Student Edition Course 1	978 0 133174 49 6
Student Edition Course 2	978 0 133174 50 2
Student Edition Course 3	978 0 133174 51 9
Student Edition Algebra Readiness	978 0 133174 52 6
Online Student Center 1-Year License Course 1	978 0 133174 72 4
Online Student Center 1-Year License Course 2	978 0 133174 73 1
Online Student Center 1-Year License Course 3	978 0 133174 74 8
Online Student Center 1-Year License Algebra Readiness	978 0 133174 75 5
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Online Student Center 6-Year License Course 3	978 0 133196 14 6
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Teacher Edition Course 3	978 0 133174 65 6
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Online Teacher Center 6-Year License Course 2	978 0 133196 21 4
Online Teacher Center 6-Year License Course 3	978 0 133196 22 1
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ALL-IN-ONE

Contains all worksheets, such as practice and intervention, in one book.

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All-In-One Student Workbook Course 2 Version B	978 0 133721 46 1
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Solution Key Course 3	978 0 133721 40 9
Solution Key Algebra Readiness	978 0 133721 41 6

EXAMVIEW® 6.1

ExamView® 6.1 Assessment Suite CD-ROM for all	978 0 133721 92 8
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Prentice Hall Mathematics Common Core: Courses 1, 2, and 3 ©2011

This is an earlier edition - see page 15 for the latest edition.

TRANSPARENCIES	
Additional Examples On Transparencies Course 1	978 0 133721 79 9
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Additional Examples On Transparencies Course 3	978 0 133721 81 2
Additional Examples On Transparencies Algebra Readiness	978 0 133721 82 9
Classroom Aid Transparencies	978 0 133721 83 6
Problem of The Day Transparencies Course 1	978 0 133721 99 7
Problem of The Day Transparencies Course 2	978 0 133722 00 0
Problem of The Day Transparencies Course 3	978 0 133722 01 7
Student Edition Answers On Transparencies Course 1	978 0 133722 03 1
Student Edition Answers On Transparencies Course 2	978 0 133722 04 8
Student Edition Answers On Transparencies Course 3	978 0 133722 05 5
Student Edition Answers On Transparencies Algebra Readiness	978 0 133722 06 2
Daily Skills Check/Lesson Quiz Transparencies Course 1	978 0 133721 84 3
Daily Skills Check/Lesson Quiz Transparencies Course 2	978 0 133721 86 7
Daily Skills Check/Lesson Quiz Transparencies Course 3	978 0 133721 87 4
Daily Skills Check/Lesson Quiz Transparencies Algebra Readiness	978 0 133721 88 1
Test-Taking Strategies On Transparencies	978 0 133722 21 5

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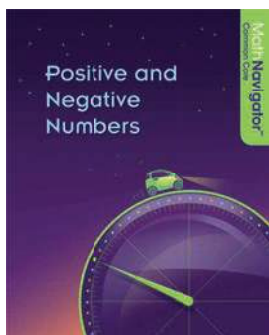
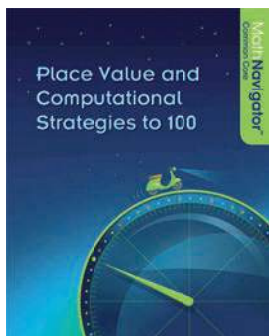
EXAMVIEW®	
ExamView® 6.1 Assessment Suite CD-ROM for all the series	978 0 133721 92 8

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www.pearsonglobalschools.com/signup



PERFECT PARTNER

Math Navigator is also available from Grades 1–5 – contact your local representative for a copy of the 2015 Elementary and Primary Catalogue or view online at www.pearsonglobalschools.com.



✓ Online Digital Path (Online Assessment and Reporting System)

Math Navigator ©2012 Common Core Edition

*Repairing misconceptions
and critical gaps in understanding*



Math Navigator is a highly flexible, intervention program that repairs misconceptions and fills critical gaps in understanding.

- ▶ Aligns with Common Core State Standards so you can be confident that this intervention acknowledges the demands for deeper mathematical proficiency.
- ▶ Supports English language learners and students with special needs.
- ▶ Provides effective instruction with 26 modules and 30–45 minute sessions as Tier 2 or Tier 3 intervention or in after-school or summer programs.

Teacher Materials

Teacher's Edition

- ▶ Guidelines for implementing each session.
- ▶ Class profiles for recording observations about students' conceptual understanding, knowledge of procedures and work habits, assessments, handouts and reproducibles.
- ▶ Callouts devoted to ELLs, Common Core, misconceptions, teaching strategies, scaffolding, and more.

Show Me Cards

Provide daily skills practice during every lesson in a module and further reinforced understanding of math concepts to ensure misconceptions are corrected.

Online resources

- ▶ Videos of best practices.
- ▶ Lesson handouts.
- ▶ Implementation and progress-monitoring tools.

Student Materials

Student Edition

The consumable student edition focuses on the concepts of the module, skills practice, and detailed instructions for each task. Students have ample space to do their calculations and explain and justify their thinking.

Study Cards

Serve as study aids to reinforce concepts, procedures, and skills – in the Math Navigator program, as well as in the core classroom. When used in the home, the cards enable parents or guardians to be involved in student learning.

FOUNDATIONS – SINGLE STUDENT SETS

Fractions as Numbers	978 0 663649 70 9
Geometry	978 0 663649 82 2
Patterns and Graphs	978 0 663650 00 2
Place Value and Computational Strategies to 1,000	978 0 663649 61 7
Place Value and Computational Strategies to 100	978 0 663649 55 6
Place Value and Computational Strategies to Millions	978 0 663649 49 5
Place Value and Computational Strategies with Larger Numbers	978 0 663649 67 9
Understanding Area and Perimeter	978 0 663649 76 1
Understanding Equivalent Fractions	978 0 663649 94 5
Unit Fractions and Operations	978 0 663649 97 6
Using Addition and Subtraction to Solve Problems to 100	978 0 663649 58 7
Using Addition and Subtraction to Solve Problems to 20	978 0 663649 52 5
Using Multiplication and Division to Solve Problems	978 0 663649 64 8
Using Operations to Solve Complex Problems	978 0 663649 79 2
Using Operations to Solve Problems	978 0 663649 73 0

FOUNDATIONS – SINGLE TEACHER SETS

Fractions as Numbers	978 0 663649 71 6
Geometry	978 0 663649 83 9
Patterns and Graphs	978 0 663650 01 9
Place Value and Computational Strategies to 1,000	978 0 663649 62 4
Place Value and Computational Strategies to 100	978 0 663649 56 3
Place Value and Computational Strategies to Millions	978 0 663649 50 1
Place Value and Computational Strategies with Larger Numbers	978 0 663649 68 6
Understanding Area and Perimeter	978 0 663649 77 8
Understanding Equivalent Fractions	978 0 663649 95 2
Unit Fractions and Operations	978 0 663649 98 3
Using Addition and Subtraction to Solve Problems to 100	978 0 663649 59 4
Using Addition and Subtraction to Solve Problems to 20	978 0 663649 53 2
Using Multiplication and Division to Solve Problems	978 0 663649 65 5
Using Operations to Solve Complex Problems	978 0 663649 80 8
Using Operations to Solve Problems	978 0 663649 74 7

PRE-ALGEBRA / ALGEBRA – SINGLE STUDENT SETS

Decimals and Powers of Ten	978 0 663649 40 2
Equations and Inequalities	978 0 663650 20 0
Expressions	978 0 663650 17 0
Operations with Fractions: Addition and Subtraction	978 0 663650 03 3
Operations with Fractions: Multiplication and Division	978 0 663650 05 7
Percents	978 0 663649 46 4
Positive and Negative Numbers	978 0 663650 23 1
Positive Rational Numbers	978 0 663650 12 5
Proportional Reasoning	978 0 663649 43 3
Ratios and Rates	978 0 663650 10 1
Using Expressions and Equations to Solve Problems	978 0 663650 26 2

PRE-ALGEBRA / ALGEBRA – SINGLE TEACHER SETS

Decimals and Powers of Ten	978 0 663649 41 9
Equations and Inequalities	978 0 663650 21 7
Expressions	978 0 663650 18 7
Operations with Fractions: Addition and Subtraction	978 0 663650 14 9
Operations with Fractions: Multiplication and Division	978 0 663650 08 8
Percents	978 0 663649 47 1
Positive and Negative Numbers	978 0 663650 24 8
Positive Rational Numbers	978 0 663650 13 2
Proportional Reasoning	978 0 663649 44 0
Ratios and Rates	978 0 663650 11 8

PRE-ALGEBRA / ALGEBRA – 10 STUDENT SETS

Decimals and Powers of Ten	978 0 663649 39 6
Equations and Inequalities	978 0 663650 19 4
Expressions	978 0 663650 16 3
Operations with Fractions: Addition and Subtraction	978 0 663650 02 6
Operations with Fractions: Multiplication and Division	978 0 663650 04 0
Percents	978 0 663649 45 7
Positive and Negative Numbers	978 0 663650 22 4
Positive Rational Numbers	978 0 663650 15 6
Proportional Reasoning	978 0 663649 42 6
Ratios and Rates	978 0 663650 09 5
Using Expressions and Equations to Solve Problems	978 0 663650 25 5

KEY

MATH NAVIGATOR COMMON CORE MODULES

SUGGESTED GRADES

FOUNDATIONS

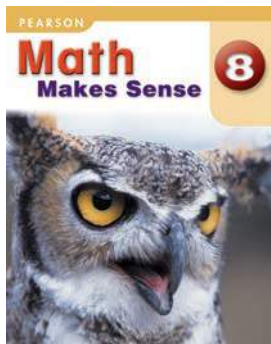
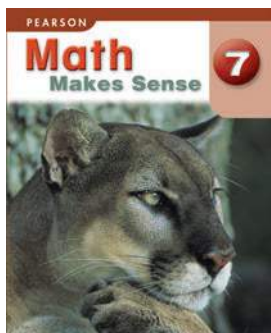
Using Addition and Subtraction to Solve Problems to 20	1 to 3
Place Value and Computational Strategies to 100	1 to 3
Using Addition and Subtraction to Solve Problems to 100	2 to 4+
Place Value and Computational Strategies to 1,000	2 to 4+
Using Multiplication and Division to Solve Problems	3 to 5+
Place Value and Computational Strategies with Larger Sums	3 to 5+
Fractions and Numbers	3 to 5+
Using Operations to Solve Problems	4+ to 5+
Understanding Area and Perimeter	4+ to 5+
Using Operations to Solve Complex Problems	5+ to 6+
Place Value and Computational Strategies to Millions	5+ to 6+
Geometry	5+ to 6+
Understanding Equivalent Fractions	5+ to 6+
Unit Fractions and Operations	5+ to 6+

MATH NAVIGATOR COMMON CORE MODULES

SUGGESTED GRADES

SECONDARY

Decimals and Powers of Ten	6+ - 7+
Operations with Fractions: Addition and Subtraction	6+ to HS
Operations with Fractions: Multiplication and Division	6+ to HS
Ratios and Rates	7+ to HS
Positive Rational Numbers	7+ to HS
Expressions	7+ to HS
Patterns and Graphs	7+ to HS
Equations and Inequalities	8+ to HS
Proportional Reasoning	8+ to HS
Percents	8+ to HS
Positive and Negative Numbers	8+ to HS
Using Expressions and Equations to Solve Problems	8+ to HS



- ✓ eBooks (Offline, CD)
- ✓ IWB
- ✓ CD/DVD (Audio)

PERFECT PARTNER

Math Make Sense is also available for Grades K-5. Go online for full details.

Math Makes Sense

Empowers all students for mathematical success



Math Makes Sense promotes student understanding through a manageable and easy-to-use program with unparalleled teacher support. The program is available in two versions written originally for Canadian schools.

Pearson Math Makes Sense K–9 (WNCP Edition)

- ▶ Written to match the WNCP curriculum and used in the provinces of British Columbia, Alberta, Saskatchewan and Manitoba.

Math Makes Sense provides all learners with the opportunity to learn mathematics in ways that are meaningful to them. It recognises many learning styles and offers guidance to teachers as they plan for individual student differences.

- ▶ Helps develop conceptual mathematical understanding with opportunities to engage in hands-on experiences in which they explore concepts in a rich mathematical context.
- ▶ Encourages learners to demonstrate conceptual understanding by communicating and modeling their reasoning and connecting a new concept or strategy to other contexts they have seen before.
- ▶ Provides opportunities to develop mathematical concepts through problem solving.
- ▶ Supports teachers with the program methodology and pedagogy.
- ▶ Interactive Whiteboard Lessons.

Addison Wesley Math Makes Sense K–8 (Ontario Edition)

- ▶ Written to match the Ontario Curriculum.
- ▶ Interactive Whiteboard Lessons.

WNCP EDITION	
GRADE 6 MATH MAKES SENSE (WNCP EDITION)	
Student Edition	978 0 321498 44 1
Student Edition eText - Student Access (1-yr)	978 0 132975 89 6
Student Edition eText - Teacher Access (1-yr)	978 0 132975 91 9
ProGuide™ (with CD-ROM and DVD)	978 0 321498 45 8
Practice/Homework Book (Consumable)	978 0 321496 45 4
Practice/Homework Book (Reproducible)	978 0 321496 48 5
Practice/Homework Book (Teacher's Edition)	978 0 321496 46 1
Together: Combined Grades Resource 6/7	978 0 321469 34 2
Interactive Whiteboard Lessons	978 0 321785 68 8
GRADE 7 MATH MAKES SENSE (WNCP EDITION)	
Student Edition	978 0 321431 55 4
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Student Edition eText - Teacher Access (1-yr)	978 0 132975 94 0
ProGuide™ (with CD-ROM and DVD)	978 0 321431 56 1
Practice/Homework Book (Consumable)	978 0 321431 58 5
Practice/Homework Book (Reproducible)	978 0 321431 76 9
Practice/Homework Book (Teacher's Edition)	978 0 321431 77 6
ExamView® Extra Practice & Test Generator CD-ROM	978 0 321431 78 3
Together: Combined Grades Resource 7/8	978 0 321431 75 2
Interactive Whiteboard Lessons	978 0 321785 66 4
GRADE 8 MATH MAKES SENSE (WNCP EDITION)	
Student Edition	978 0 321496 51 5
Student Edition eText - Student Access (1-yr)	978 0 132975 96 4
Student Edition eText - Teacher Access (1-yr)	978 0 132975 97 1
ProGuide™ (with CD-ROM and DVD)	978 0 321496 52 2
Practice/Homework Book (Consumable)	978 0 321496 43 0
Practice/Homework Book (Reproducible)	978 0 321496 41 6
Practice/Homework Book (Teacher's Edition)	978 0 321498 42 7
ExamView® Extra Practice & Test Generator CD-ROM	978 0 321498 43 4
Solutions CD-ROM	978 0 321551 96 2
Interactive Whiteboard Lessons	978 0 321778 05 5
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Student Edition eText - Student Access (1-yr)	978 0 132975 99 5
Student Edition eText - Teacher Access (1-yr)	978 0 132976 00 8
Pearson Mathématiques 9 Student Edition	978 0 321682 22 2
ProGuide™ (with CD-ROM and DVD)	978 0 321495 59 4
Pearson Mathématiques 9 Teacher Resource with CD (in French)	978 0 321744 27 2
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Preparation and Practice Book (Reproducible)	978 0 321524 20 1
Preparation and Practice Book (Teacher's Edition)	978 0 321524 19 5
ExamView® Extra Practice & Test Generator CD-ROM	978 0 321520 16 6
Solutions CD-ROM	978 0 321551 94 8

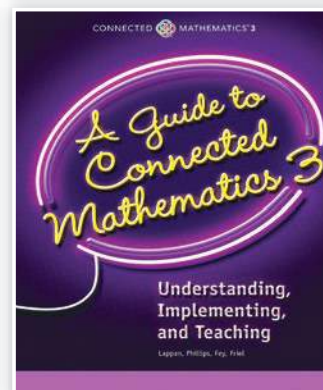
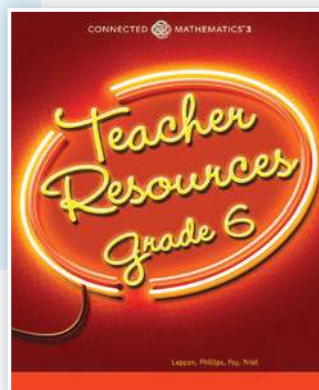
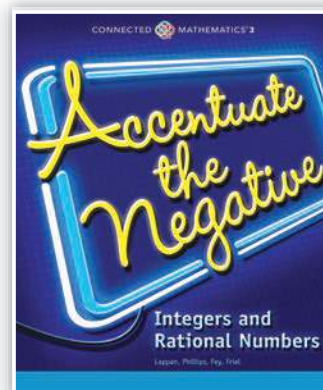
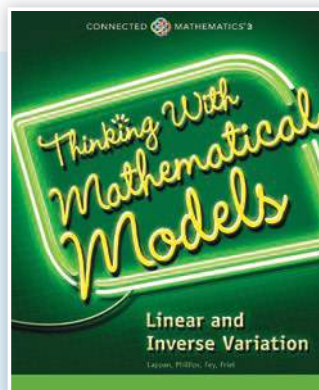
ONTARIO EDITION	
GRADE 6 MATH MAKES SENSE (ONTARIO EDITION)	
Student Edition	9780321118233
Student Edition eText - Student Access (1-yr)	9780132976299
Student Edition eText - Teacher Access (1-yr)	9780132976305
Teacher Guide & CD-ROM	9780321118240
Practice/Homework Book (Consumable)	9780321242273
Practice/Homework Book (Reproducible)	9780321242297
Practice/Homework Book (Teacher's Edition)	9780321242280
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Interactive Whiteboard Lessons	9780321779526
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Practice/Homework Book (Reproducible)	9780321242327
Practice/Homework Book (Teacher's Edition)	9780321242310
ExamView® Extra Practice & Test Generator CD-ROM	9780321138590
Together: Combined Grades Resource 7/8	9780321225894
Interactive Whiteboard Lessons	9780321798404
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Student Edition (without answers)	9780321235787
Student Edition eText - Student Access (1-yr)	9780132976367
Student Edition eText - Teacher Access (1-yr)	9780132976374
Teacher Guide & CD-ROM	9780321138699
Practice/Homework Book (Consumable)	9780321242334
Practice/Homework Book (Reproducible)	9780321242358
Practice/Homework Book (Teacher's Edition)	9780321242341
ExamView® Extra Practice & Test Generator CD-ROM	9780321138651
Interactive Whiteboard Lessons	9780321798428

Connected Mathematics 3 (CMP3) ©2014

For the Common Core and
digital classroom



Connected Mathematics Project 3 ©2014 takes inquiry-based learning to the 21st century. Students will learn mathematics through appealing and engaging problems. The three-step *Launch, Explore, Summarize* approach helps students develop mathematical thinking and reasoning abilities while practicing and maintaining skills. And now, cutting edge technology tools engage students while technology applications help teachers manage their classroom with fidelity, maximize instructional time, and capture needed student data.





- ✓ Online Digital Path (DASH)
- ✓ ACTIVE-books (Online, PC/Mac/Tablet)
- ✓ CD/DVD

The Pearson Advantage

Built for the Common Core

CMP3 provides full coverage of the Common Core State Standards and incorporates the Standards for Mathematical Practice at the daily Problem level.

NSF funded

As part of a National Science Foundation grant, all CMP programs have been classroom-tested in depth prior to publication to ensure student success with the materials.

Problem-centered, research-based approach

CMP3 uses the same problem-centered, research-based approach that was proven successful with students in the original; content is developmentally appropriate for middle school students.

Embeds important mathematical concepts in interesting problems

Students learn important mathematical ideas in the context of interesting, interconnected problems. This exploration leads to understanding and the development of higher-order thinking skills and problem-solving strategies.

Accessible to all levels of students

CMP3 is an effective combination of content and methodology designed to foster more “a-ha!” moments, regardless of a student’s skill level or learning style.

Support for Teachers

CMP3 provides easy-to-use, detailed lesson plans that help teachers actively engage students in learning mathematics. Supplemental math background and guiding questions ensure teachers are supported every step of the way. Teacher materials are now available in Dash, an innovative mobile web application format, ensuring flexibility and implementation with ease.

Robust technology to support learning!

CMP3 uses technology to support teachers with implementation fidelity, thus raising student achievement. **CMP3** comes with easy-to-use mobile classroom management tools so teachers can capture student work on the go. A full suite of ExamView® assessment tools is also available. **CMP3** technology is engaging and interactive, making learning relevant to students’ lives. It personalizes learning and practice to meet individual needs and abilities—automatically, with digital speed.



CMP3 Summary of Components

- ▶ ACTIVE-book digital Student Edition
- ▶ Investigations: print Student Editions (booklets, single bind, English, Spanish)
- ▶ Interactive digital Teacher's Guide with additional point-of-use teaching resources
- ▶ Investigations: print Teacher's Guides
- ▶ Program Implementation and Overview Guide
- ▶ Program Resources package (print, digital)
- ▶ Online Teacher Community
- ▶ Assessments CD with ExamView®
- ▶ Teacher Lesson Support CD-ROM
- ▶ Manipulatives Kits
- ▶ MathXL for School™ for optional Skills practice

Grade 6 Contents

- 1 Prime Time: Factors and Multiples
- 2 Comparing Bits and Pieces: Ratios, Rational Numbers and Equivalence
- 3 Lets Be Rational: Understanding Fraction Operation
- 4 Covering and Surrounding: Two-dimensional Measurement
- 5 Decimal Operations: Computing with Decimals and Percents
- 6 Variables and Patterns: Focus on Algebra
- 7 Variables and Patterns
- 8 Data About Us: Statistics and Data Analysis

Grade 7 Contents

- 1 Shapes and Designs: Two-Dimensional Geometry
- 2 Accentuate and Negative: Integers and Rational Numbers
- 3 Stretching and Shrinking: Understanding Similarity
- 4 Comparing and Scaling: Ratios, Rates, Percents and Proportions
- 5 Moving Straight Ahead: Linear Relationships
- 6 What do you Expect?: Probability and Expected Value
- 7 Filling and Trapping: Three-dimensional Measurement
- 8 Samples and Populations: Data

Grade 8 Contents

- 1 Thinking with Mathematical Models: Linear and Inverse Variation
- 2 Looking for Pythagoras: The Pythagorean Theorem
- 3 Growing, Growing, Growing: Exponential Functions
- 4 Butterflies, Pinwheels and Wallpaper: Symmetry and Transformations
- 5 Say it with Symbols: Making Sense of Symbols
- 6 It's the System: Systems of Linear Equations and Inequalities

Grade 8 Algebra I Contents

- 1 Thinking with Mathematical Models: Linear and Inverse Variation
- 2 Looking for Pythagoras: The Pythagorean Theorem
- 3 Growing, Growing, Growing: Exponential Functions
- 4 Frogs, fleas and Painted Cubes: Quadratic Functions
- 5 Butterflies, Pinwheels and Wallpaper: Symmetry and Transformations
- 6 Say it with Symbols: Making Sense of Symbols
- 7 It's the System: Systems of Linear Equations and Inequalities
- 8 Function Junctions: The Families of Functions

Connected Mathematics Project 3 (CMP3), Grades 6-8 ©2014

GRADE 6	
STUDENT PRINT AND DIGITAL BUNDLES	
Student Bundle	978 0 133296 74 7
<i>Contains the following 6 units in both print and digital 6-year formats:</i>	
Prime Time: Factors and Multiples	978 0 133274 43 1
Comparing Bits and Pieces: Ratios, Rational Numbers, and Equivalence	978 0 133274 40 0
Let's Be Rational: Understanding Fraction Operations	978 0 133274 42 4
Covering and Surrounding: Two-Dimensional Measurement	978 0 133274 41 7
Decimal Operations: Computing with Decimals and Percents	978 0 133276 35 0
Variables and Patterns	978 0 133276 38 1
Data About Us: Statistics and Data Analysis	978 0 133276 37 4
<i>Individual Student Unit Books listed above are available for individual sale. Also includes digital 6-year format.</i>	
Student Bundle with MathXL® for School	978 0 133299 09 0
<i>Contains: the above units in both print and digital 6-year formats and MathXL for School 6-year access</i>	
Single Bind Student Edition Bundle	978 0 133296 83 9
<i>Contains: Single Bind Student Edition and the above units in digital 6-year format</i>	
Single Bind Student Edition Bundle with MathXL for School	978 0 133299 01 4
<i>Contains: Single Bind Student Edition and the above units in 6-year format and MathXL for School 6-year access</i>	

SPANISH STUDENT PRINT AND DIGITAL BUNDLES	
Spanish Student Bundle	978 0 133296 78 5
<i>Contains the following 6 units in both Spanish print and digital English 6-year formats:</i>	
Prime Time: Factors and Multiples	978 0 133277 87 6
Comparing Bits and Pieces: Ratios, Rational Numbers, and Equivalence	978 0 133277 88 3
Let's Be Rational: Understanding Fraction Operations	978 0 133277 89 0
Covering and Surrounding: Two-Dimensional Measurement	978 0 133277 90 6
Decimal Operations: Computing with Decimals and Percents	978 0 133277 91 3
Variables and Patterns	978 0 133277 94 4
Data About Us: Statistics and Data Analysis	978 0 133277 93 7
<i>Individual Spanish Student Unit Books listed above are available for individual sale. Also includes digital 6-year format in English.</i>	
Spanish Student Bundle with MathXL for School.	978 0 133299 06 9
<i>Contains: the above units in English print and digital Spanish 6-year formats and MathXL for School 6-year access</i>	

STUDENT DIGITAL BUNDLES	
MathXL for School Skills Practice (per student, per year)	978 0 133280 00 5
6-year Student Bundle	978 0 133300 58 1
<i>Contains access to the following titles:</i>	
ACTIVE-book Prime Time: Factors and Multiples	978 0 133277 21 0
ACTIVE-book Comparing Bits and Pieces: Ratios, Rational Numbers, and Equivalence	978 0 133277 22 7
ACTIVE-book Let's Be Rational: Understanding Fraction Operations	978 0 133277 23 4
ACTIVE-book Covering and Surrounding: Two-Dimensional Measurement	978 0 133277 24 1
ACTIVE-book Decimal Operations: Computing with Decimals and Percents	978 0 133277 25 8

ACTIVE-book Data About Us: Statistics and Data Analysis	978 0 133277 26 5
ACTIVE-book Variables and Patterns	978 0 133277 28 9

Individual Student ACTIVE-books listed above are available for individual sale.

6-year Student Bundle	978 0 133300 54 3
<i>Contains: access to the above titles and MathXL for School 6-year access</i>	

Student Digital Bundles are also available for 1-year subscriptions. Contact local Pearson representative for more information.

TEACHER'S PRINT + DIGITAL BUNDLES	
Teacher Place Bundle	978 0 133280 85 2
<i>Contains the following print and digital resources:</i>	
Printed Teacher Resources	978 0 133274 25 7
Teacher Lesson Support CD-ROM	978 0 133278 76 7
ExamView® (grade agnostic, includes CD-ROM, installer software, online test banks)	978 0 133278 71 2
CMP3 Teacher Network (6-year digital access, grade agnostic)	978 0 133268 11 9
A Guide to Connected Mathematics 3: Understanding, Implementing, and Teaching (grade agnostic)	978 0 133274 21 9

CMP3 TEACHER'S GUIDES

Included in the Teacher Place Bundle in both print and digital 6-year formats. Also available for individual sale; includes digital 6-year format.

Prime Time: Factors and Multiples	978 0 133276 71 8
Comparing Bits and Pieces: Ratios, Rational Numbers, and Equivalence	978 0 133276 71 8
Let's Be Rational: Understanding Fraction Operations	978 0 133276 72 5
Covering and Surrounding: Two-Dimensional Measurement	978 0 133276 73 2
Decimal Operations: Computing with Decimals and Percents	978 0 133276 49 7
Variables and Patterns	978 0 133276 50 3
Data About Us: Statistics and Data Analysis	978 0 133276 53 4
Teacher Place Bundle with MathXL for School	978 0 133224 97 9
<i>Contains: all the above print and digital resources and MathXL for School 6-year access</i>	

MANIPULATIVES KIT

Manipulatives Kit	978 0 133278 65 1
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GRADE 7

STUDENT PRINT AND DIGITAL BUNDLES	
Student Bundle	978 0 133296 75 4
<i>Contains the following units in both print and digital 6-year formats:</i>	
Shapes and Designs: Two-Dimensional Geometry	978 0 133274 47 9
Accentuate the Negative: Integers and Rational Numbers	978 0 133274 44 8
Stretching and Shrinking: Understanding Similarity	978 0 133274 48 6
Comparing and Scaling: Ratios, Rates, Percents, and Proportions	978 0 133274 45 5
Moving Straight Ahead: Linear Relationships	978 0 133276 39 8
What Do You Expect? Probability and Expected Value	978 0 133276 40 4
Filling and Wrapping: Three Dimensional Measurement	978 0 133276 41 1
Samples and Populations: Data	978 0 133276 42 8

Individual Student Unit Books listed above are available for individual sale. Also includes digital 6-year format.

Student Bundle with MathXL for School	978 0 133299 10 6
<i>Contains: the above units in both print and digital 6-year formats and MathXL for School 6-year access</i>	
Single Bind Student Edition Bundle	978 0 133296 84 6
<i>Contains: Single Bind Student Edition and the above units in digital 6-year format</i>	
Single Bind Student Edition Bundle with MathXL for School	978 0 133299 02 1
<i>Contains: Single Bind Student Edition and the above units in 6-year format and MathXL for School 6-year access</i>	

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Accentuate the Negative: Integers and Rational Numbers	978 0 133277 96 8
Stretching and Shrinking: Understanding Similarity	978 0 133277 97 5
Comparing and Scaling: Ratios, Rates, Percents, and Proportions	978 0 133277 98 2
Moving Straight Ahead: Linear Relationships	978 0 133277 99 9
What Do You Expect? Probability and Expected Value	978 0 133278 01 9
Filling and Wrapping: Three Dimensional Measurement	978 0 133278 02 6
Samples and Populations: Data	978 0 133278 03 3

Individual Spanish Student Unit Books listed above are available for individual sale. Also includes digital 6-year format in English.

STUDENT DIGITAL BUNDLES

MathXL for School Skills Practice (per student, per year)	978 0 133280 02 9
6-year Student Bundle	978 0 133300 59 8
<i>Contains access to the following titles:</i>	
ACTIVE-book Shapes and Designs: Two-Dimensional Geometry	978 0 133277 29 6
ACTIVE-book Accentuate the Negative: Integers and Rational Numbers	978 0 133277 30 2
ACTIVE-book Stretching and Shrinking: Understanding Similarity	978 0 133277 31 9
ACTIVE-book Comparing and Scaling: Ratios, Rates, Percents, and Proportions	978 0 133277 32 6
ACTIVE-book Moving Straight Ahead: Linear Relationships	978 0 133277 33 3
ACTIVE-book What Do You Expect? Probability and Expected Value	978 0 133277 34 0
ACTIVE-book Filling and Wrapping: Three Dimensional Measurement	978 0 133277 36 4
ACTIVE-book Samples and Populations: Data	978 0 133277 37 1

Individual Student ACTIVE-books listed above are available for individual sale.

6-year Student Bundle	978 0 133300 55 0
<i>Contains: access to the above titles and MathXL for School 6-year access</i>	

Student Digital Bundles are also available for 1-year subscriptions. Contact your local Pearson representative for more information.

TEACHER PRINT + DIGITAL BUNDLES

Teacher Place Bundle	978 0 133280 86 9
<i>Contains the following print and digital resources:</i>	
Printed Teacher Resources	978 0 133274 26 4
Teacher Lesson Support CD-ROM	978 0 133278 77 4
ExamView® (grade agnostic, includes CD-ROM, installer software, online test banks)	978 0 133278 71 2
CMP3™ Teacher Network (6-year grade agnostic)	978 0 133268 11 9
A Guide to Connected Mathematics 3: Understanding, Implementing, and Teaching (grade agnostic)	978 0 133274 21 9

CMP3 TEACHER'S GUIDES

Included in the Teacher Place Bundle in both print and digital 6-year formats. Also available for individual sale; includes digital 6-year format

Shapes and Designs: Two-Dimensional Geometry	978 0 133276 54 1
Accentuate the Negative: Integers and Rational Numbers	978 0 133276 55 8
Stretching and Shrinking: Understanding Similarity	978 0 133276 56 5
Comparing and Scaling: Ratios, Rates, Percents, and Proportions	978 0 133276 57 2
Moving Straight Ahead: Linear Relationships	978 0 133276 58 9
What Do You Expect? Probability and Expected Value	978 0 133276 59 6
Filling and Wrapping: Three Dimensional Measurement	978 0 133276 60 2
Samples and Populations: Data	978 0 133276 61 9
Teacher Place Bundle with MathXL® for School	978 0 133224 98 6
<i>Contains: all the above print and digital resources and MathXL for School 6-year access</i>	

MANIPULATIVES

Manipulatives Kit, Package 1	978 0 133278 66 8
Manipulatives Kit, Package 2	978 0 133278 68 2

Both manipulative kits are necessary for teaching the Grade 7 curriculum in full.

GRADE 8 AND GRADE 8 ALGEBRA I

STUDENT PRINT + DIGITAL BUNDLES

Grade 8 Student Bundle	978 0 133296 76 1
<i>Contains the following units in both print and digital 6-year formats except for units marked with †:</i>	
Grade 8 Algebra I Student Bundle	978 0 133296 77 8
<i>Contains the following units in both print and digital 6-year formats:</i>	
Thinking with Mathematical Models: Linear and Inverse Variation	978 0 133274 52 3
Looking for Pythagoras: The Pythagorean Theorem	978 0 133274 51 6
Growing, Growing, Growing: Exponential Relationships	978 0 133274 50 9
† Frogs, Fleas, and Painted Cubes: Quadratic Functions	978 0 133274 49 3
Butterflies, Pinwheels, and Wallpaper: Symmetry and Transformations	978 0 133276 43 5
Say It With Symbols: Making Sense of Symbols	978 0 133276 45 9
It's In The System: Systems of Linear Equations and Inequalities	978 0 133276 46 6
† Function Junctions: The Families of Functions	978 0 133276 47 3

Individual Student Unit Books listed above are available for individual sale. Also includes digital 6-year format.

† Indicates Algebra I Add-On Units.	978 0 133299 11 3
Grade 8 Algebra I Student Bundle with MathXL for School	978 0 133299 13 7
<i>Contains: all of the above units in both print and digital 6-year formats and MathXL for School 6-year access</i>	
Grade 8 Single Bind Student Edition Bundle	978 0 133296 85 3
<i>Contains: Single Bind Student Edition and all of the above units in digital 6-year format except for units marked with †</i>	
Grade 8 Algebra I Single Bind Student Edition Bundle	978 0 133296 86 0
<i>Contains: Single Bind Student Edition and the above units in digital 6-year format</i>	
Grade 8 Single Bind Student Edition Bundle with MathXL for School	978 0 133299 03 8
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Grade 8 Algebra I Single Bind Student Edition Bundle with MathXL for School 978 0 133299 05 2
 Contains: Single Bind Student Edition and all of the above units in 6-year format and MathXL for School 6-year access

SPANISH STUDENT PRINT + DIGITAL BUNDLES

Grade 8 Spanish Student Bundle	978 0 133296 81 5
<i>Contains the following units in both Spanish print and digital English 6-year formats except for units marked with †:</i>	
Grade 8 Algebra I Spanish Student Bundle	978 0 133296 82 2
<i>Contains the following units in both print and digital 6-year formats:</i>	
Thinking with Mathematical Models: Linear and Inverse Variation	978 0 133278 04 0
Looking for Pythagoras: The Pythagorean Theorem	978 0 133278 05 7
Growing, Growing, Growing: Exponential Relationships	978 0 133278 06 4
† Frogs, Fleas, and Painted Cubes: Quadratic Functions	978 0 133278 07 1
Butterflies, Pinwheels, and Wallpaper: Symmetry and Transformations	978 0 133278 08 8
Say It With Symbols: Making Sense of Symbols	978 0 133278 09 5
It's In The System: Systems of Linear Equations and Inequalities	978 0 133278 10 1
† Function Junctions: The Families of Functions	978 0 133278 11 8

Individual Spanish Student Unit Books listed above are available for individual sale. Also includes digital 6-year format in English.

Grade 8 Spanish Student Bundle	978 0 133299 15 1
<i>Contains: the above units in both print Spanish and digital English 6-year formats and MathXL for School 6-year access except for units marked with †</i>	
Grade 8 Algebra I Spanish Student Bundle with MathXL for School	978 0 133299 08 3
<i>Contains: the above units in print Spanish and digital English 6-year formats and MathXL for School 6-year access.</i>	

STUDENT DIGITAL BUNDLES

MathXL for School Skills Practice (per student, per year)	978 0 133280 04 3
Grade 8, 6-year Student Bundle	978 0 133300 60 4
<i>Contains access to the following titles except for units marked with †:</i>	
Grade 8 Algebra I, 6-year Student Bundle	978 0 133300 61 1
<i>Contains access to the following titles:</i>	
ACTIVE-book Thinking with Mathematical Models: Linear and Inverse Variation	978 0 133277 38 8
ACTIVE-book Looking for Pythagoras: The Pythagorean Theorem	978 0 133277 39 5
ACTIVE-book Growing, Growing, Growing: Exponential Relationships	978 0 133277 40 1
† ACTIVE-book Frogs, Fleas, and Painted Cubes: Quadratic Functions	978 0 133277 41 8
ACTIVE-book Butterflies, Pinwheels, and Wallpaper: Symmetry and Transformations	978 0 133277 42 5
ACTIVE-book Say It With Symbols: Making Sense of Symbols	978 0 133277 44 9
ACTIVE-book It's In The System: Systems of Linear Equations and Inequalities	978 0 133277 45 6
† ACTIVE-book Function Junctions the Families of Functions	978 0 133277 46 3

Individual Student ACTIVE-books listed above are available for individual sale.

Grade 8, 6-year Student Bundle with MathXL for School 978 0 133300 56 7
 Contains: access to the above titles and MathXL for School 6-year access except for units marked with †:

Grade 8 Algebra I, 6-year Student Bundle with MathXL for School 978 0 133300 57 4
 Contains: access to all of the above titles and MathXL for School 6-year access

Student Digital Bundles are also available for 1-year subscriptions. Contact local Pearson representative for more information.

TEACHER'S PRINT + DIGITAL BUNDLES

Grade 8 Teacher Place Bundle	978 0 133280 87 6
<i>Contains the following print and digital resources except for units marked with †:</i>	
Grade 8 Algebra I Teacher Place Bundle	978 0 133281 59 0
<i>Contains the following print and digital resources:</i>	
Printed Teacher Resources	978 0 133274 27 1
Teacher Lesson Support CD-ROM	978 0 133274 27 1
ExamView (grade agnostic, includes CD-ROM, installer software, online test banks)	978 0 133278 71 2
CMP3 Teacher Network (6-year grade agnostic)	978 0 133268 11 9
A Guide to Connected Mathematics 3: Understanding, Implementing, and Teaching (grade agnostic)	978 0 133274 21 9

CMP3 TEACHER'S GUIDES

Included in the Teacher Place Bundle in both print and digital 6-year formats. Also available for individual sale; includes digital 6-year format.

Thinking with Mathematical Models: Linear and Inverse Variation	978 0 133276 62 6
Looking for Pythagoras: The Pythagorean Theorem	978 0 133276 63 3
Growing, Growing, Growing: Exponential Relationships	978 0 133276 64 0
† Frogs, Fleas, and Painted Cubes: Quadratic Functions	978 0 133276 65 7
Butterflies, Pinwheels, and Wallpaper: Symmetry and Transformations	978 0 133276 66 4
Say It With Symbols: Making Sense of Symbols	978 0 133276 67 1
It's In The System: Systems of Linear Equations and Inequalities	978 0 133276 68 8
† Function Junctions: The Families of Functions	978 0 133276 70 1
Grade 8 Teacher Place Bundle with MathXL for School	978 0 133224 99 3
<i>Contains: all the above print and digital resources and MathXL for School 6-year access except for units marked with †</i>	
Grade 8 Algebra I Teacher Place Bundle with MathXL for School	978 0 133281 58 3
<i>Contains: all the above print and digital resources and MathXL for School 6-year access</i>	
MANIPULATIVES KIT	
<i>Contains: Grade 8 and Grade 8 Algebra I resources</i>	978 0 133278 69 9







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- ▶ **Accelerated sequence** – *digits* also offers an Accelerated Grade 7 course which allows students to complete the content of 7th grade and 8th grade in a single course. Students are then ready to take Algebra I in the 8th grade, enabling them to reach Calculus or other college level courses by their senior year in high school.



Dynamic examples provide explicit, step-by-step instruction and explanation to support comprehension of mathematical concepts.

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NEW Pearson Realize is our learning management system. It is the online destination for standards-aligned content, flexible class management tools, and embedded assessments that deliver data to teachers instantly. For teachers who need a core product to enhance their teaching materials, **Realize** provides a source of premium content correlated to state and common core standards. Content is organized in a way that allows teachers to search by keyword, browse by a table of contents, or browse by standards. In addition to the searching of content, **Realize** offers tools that encourage teachers to customize the content and add their own. A comprehensive set of reports and student usage data gives teachers the power to target their teaching to improve student outcomes.

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Homework Helper Reference Accelerated Grade 7	978 0 133318 25 8

KS3 Maths Progress

Confidence • Fluency • Problem-solving • Progression

NEW

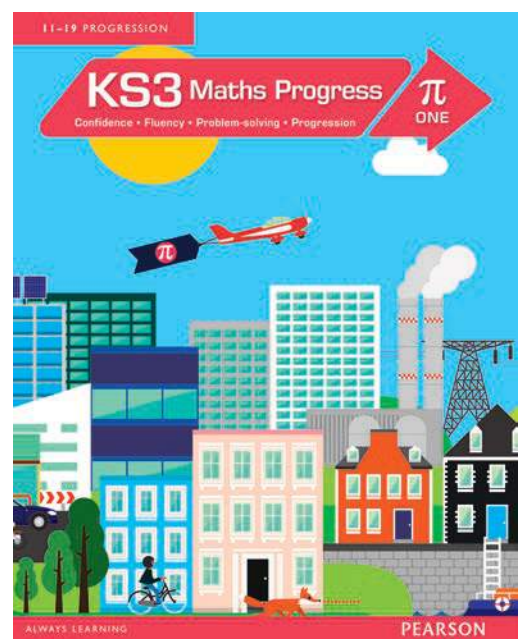
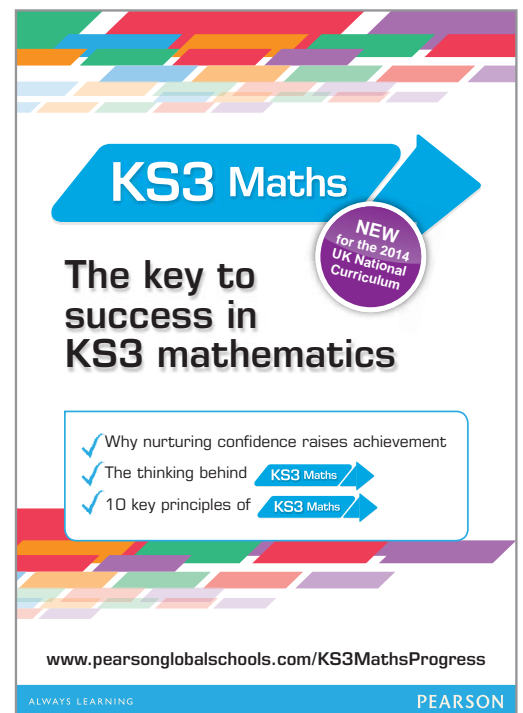


Creating numerate students able to progress with confidence






































KS3 Maths Progress for the 2014 UK National Curriculum embeds evidence-based approaches throughout, with a suite of trusted digital and print resources. This exciting new series will help create confident and numerate students who are able to progress further.

The 10 Key Principles of KS3 Maths Progress

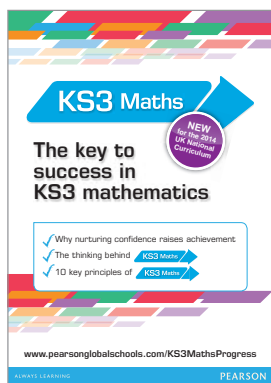
- Fluency
- Mathematical Reasoning
- Multiplicative Reasoning
- Problem Solving
- Progression
- Concrete-Pictorial-Abstract (CPA)
- Relevance
- Modelling
- Reflection (metacognition)
- Linking




What's in KS3 Maths Progress?

	Student Books	Plan and Present		Homework & Practice	
Year 7 (Ages 11/12)	 Pi 1 Student Book (levels 3-6)	 Pi 1 Teacher Guide (levels 3-6)	 Pi 1 ActiveTeach Online	 Pi 1 Progression Workbook (levels 3-6)	
	 Theta 1 Student Book (levels 4-7)	 Theta 1 Teacher Guide (levels 4-7)	 Theta 1 ActiveTeach Online	 Theta 1 Progression Workbook (levels 4-7)	
	 Delta 1 Student Book (levels 5-8+)	 Delta 1 Teacher Guide (levels 5-8+)	 Delta 1 ActiveTeach Online	 Delta 1 Progression Workbook (levels 5-8+)	
Year 8 (Ages 12/13)	 Pi 2 Student Book (levels 3-6)	 Pi 2 Teacher Guide (levels 3-6)	 Pi 2 ActiveTeach Online	 Pi 2 Progression Workbook (levels 3-6)	 ActiveCourse and Active Book
	 Theta 2 Student Book (levels 4-7)	 Theta 2 Teacher Guide (levels 4-7)	 Theta 2 ActiveTeach Online	 Theta 2 Progression Workbook (levels 4-7)	
	 Delta 2 Student Book (levels 5-8+)	 Delta 2 Teacher Guide (levels 5-8+)	 Delta 2 ActiveTeach Online	 Delta 2 Progression Workbook (levels 5-8+)	
Year 9 (Ages 13/14)	 Pi 3 Student Book (levels 3-6)	 Pi 3 Teacher Guide (levels 3-6)	 Pi 3 ActiveTeach Online	 Pi 3 Progression Workbook (levels 3-6)	
	 Theta 3 Student Book (levels 4-7)	 Theta 3 Teacher Guide (levels 4-7)	 Theta 3 ActiveTeach Online	 Theta 3 Progression Workbook (levels 4-7)	
	 Delta 3 Student Book (levels 5-8+)	 Delta 3 Teacher Guide (levels 5-8+)	 Delta 3 ActiveTeach Online	 Delta 3 Progression Workbook (levels 5-8+)	

Levels are UK National Curriculum levels and for guidance only.





- ✓ Online Digital Path (ActiveLearn)
- ✓ eBooks* (Online, PC/Mac/Tablet)
- ✓ IWB

Active
Teach

Active
Learn

Evaluate ActiveLearn at
www.pearsonactivelearn.com

Pedagogy at the heart

Maths Progress has been built around a pedagogy from leading mathematics researchers which:

- ▶ closely examined the new 2014 UK National Curriculum for Mathematics (including Key Stage 2)
- ▶ appraised the best performing countries in mathematics with a particular focus on Singapore
- ▶ reviewed some recent and most commonly cited research papers in mathematics education
- ▶ audited the most respected and well-used mathematics resources, both print and digital.

Stretch, challenge and support

Differentiated materials catering for students of all abilities enable smooth progression and set high expectations. Each unit has the following structure to allow students to:

- ▶ **Master** fundamental knowledge and skills over a series of lessons.
- ▶ **Check** their understanding in a short formative assessment, and give an indication of their confidence level in their Student Progression Chart.
- ▶ **Extend** in areas where they feel confident and performed well in the assessment

OR

- ▶ **Strengthen** their learning in areas where they have yet to develop a solid understanding and/or they do not feel confident.
- ▶ **Test** their progression across the unit. The results can be recorded in their Student Progression Chart.

Tried and tested front-of-class support

ActiveTeach is now online, providing the ideal hub for lesson planning and delivery. Make the Student Books available for display on your whiteboard and gain access to visually rich digital resources including activities and videos.

Learning beyond the classroom

ActiveLearn breaks down barriers to independent learning with auto marked online homework and support, giving students extra practice and a chance to reflect on their learning.

Easy to plan and teach

Digital **Teacher Guides** are full of comprehensive lesson plans and editable Schemes of Work that provide support for the pedagogy.

Progress and practice with confidence

Differentiated **Student Books** develop confidence, fluency and problem-solving and support progression. Write-on **Progression Workbooks** offer extra practice of key content along with dynamic student support, confidence checkers and progression charts, giving students a chance to reflect on their learning and take ownership of their work.



Pi - Lower ability (levels 3-5)
 Theta - Middle ability (levels 4-6)
 Delta - Higher ability (levels 5-8)

ACTIVELEARN DIGITAL SERVICE

Orders of ActiveLearn must be sent with the digital order form, available at www.pearsonglobalschools.com/orderform. This product is sold as a per pupil 1-year licence.

ActiveCourse and ActiveBook	978 447962 55 7
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YEAR 7 (AGES 11-12)

STUDENT BOOK (PAPERBACK)

KS3 Maths Progress Student Book Pi 1	978 447962 29 8
KS3 Maths Progress Student Book Theta 1	978 447962 32 8
KS3 Maths Progress Student Book Delta 1	978 447962 31 1

PROGRESSION WORKBOOK (PRINTED WORKBOOK)

KS3 Maths Progress Progression Workbook Pi 1 8 Pack	978 447971 20 7
KS3 Maths Progress Progression Workbook Theta 1 8 Pack	978 447971 18 4
KS3 Maths Progress Progression Workbook Delta 1 8 Pack	978 447971 19 1

TEACHER GUIDE

Downloadable	
KS3 Maths Progress Teacher Guide Pi 1	978 447970 43 9
KS3 Maths Progress Teacher Guide Theta 1	978 447970 41 5
KS3 Maths Progress Teacher Guide Delta 1	978 447970 42 2

ACTIVETEACH

Orders of ActiveTeach must be sent with the digital order form, available at www.pearsonglobalschools.com/orderform. This product is sold as a site licence.

KS3 Maths ActiveTeach Presentation Pi 1 - 1-year licence	978 447970 34 7
KS3 Maths ActiveTeach Presentation Theta 1 - 1-year licence	978 447970 32 3
KS3 Maths ActiveTeach Presentation Delta 1 - 1-year licence	978 447970 33 0

YEAR 8 (AGES 12-13)

STUDENT BOOK (PAPERBACK)

KS3 Maths Progress Student Book Pi 2	978 447962 33 5
KS3 Maths Progress Student Book Delta 2	978 447962 35 9
KS3 Maths Progress Student Book Theta 2	978 447962 34 2

PROGRESSION WORKBOOK (PRINTED WORKBOOK)

KS3 Maths Progress Progression Workbook Pi 2 8 Pack	978 447971 23 8
KS3 Maths Progress Progression Workbook Theta 2 8 Pack	978 447971 21 4
KS3 Maths Progress Progression Workbook Delta 2 8 Pack	978 447971 22 1

TEACHER GUIDE

Downloadable	
KS3 Maths Progress Teacher Guide Pi 2	978 447970 46 0
KS3 Maths Progress Teacher Guide Theta 2	978 447970 44 6
KS3 Maths Progress Teacher Guide Delta 2	978 447970 45 3

ACTIVETEACH

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KS3 Maths ActiveTeach Presentation Pi 2 - 1-year licence	978 447970378
KS3 Maths ActiveTeach Presentation Theta 2 - 1-year licence	978 447970354
KS3 Maths ActiveTeach Presentation Delta 2 - 1-year licence	978 447970361

YEAR 9 (AGES 13-14)

STUDENT BOOK (PAPERBACK)

KS3 Maths Progress Student Book Pi 3	978 447962 36 6
KS3 Maths Progress Student Book Delta 3	978 447962 38 0
KS3 Maths Progress Student Book Theta 3	978 447962 37 3

PROGRESSION WORKBOOK (PRINTED WORKBOOK)

KS3 Maths Progress Progression Workbook Pi 3 8 Pack	978 447971 26 9
KS3 Maths Progress Progression Workbook Theta 3 8 Pack	978 447971 24 5
KS3 Maths Progress Progression Workbook Delta 3 8 Pack	978 447971 25 2

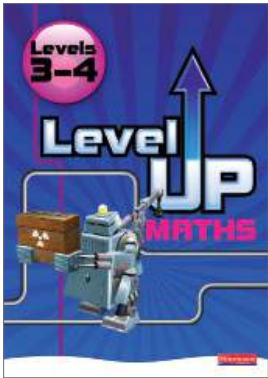
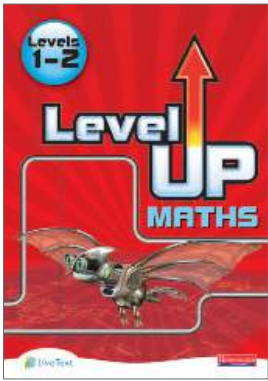
TEACHER GUIDE

Downloadable	
KS3 Maths Progress Teacher Guide Pi 3*	978 447970 49 1
KS3 Maths Progress Teacher Guide Theta 3	978 447970 47 7
KS3 Maths Progress Teacher Guide Delta 3	978 447970 48 4

ACTIVETEACH

Orders of ActiveTeach must be sent with the digital order form, available at www.pearsonglobalschools.com/orderform. This product is sold as a site licence.

KS3 Maths ActiveTeach Presentation Pi 3 - 1-year licence	978 447970 40 8
KS3 Maths ActiveTeach Presentation Theta 3 - 1-year licence	978 447970 38 5
KS3 Maths ActiveTeach Presentation Delta 3 - 1-year licence	978 447970 39 2



Level Up Maths

High interest maths that makes progression easy



Packed with engaging activities and comprehensive lesson plans to support you in your teaching, this fantastic series makes learning maths fun and progression easy.

Pupil Books

Motivate your pupils to progress

Ensuring clear progression for every pupil, these textbooks feature activities that make progression easy and help you deliver personalised lessons. Plenaries at the end of each unit contain exercises that develop Functional Skills and put maths in a real-world context.

Plus...

- ▶ **Maths activities** illustrate the applications and implications of maths in the real world, and its cultural and historical roots.
- ▶ **Plenaries** feature a wealth of activities that develop functional skills and consolidate learning.
- ▶ **'World's Greatest Maths'** lessons provide a memorable learning experience and give pupils the chance to put key maths skills into practice.

'Why learn this?' sections relate maths to the real world.

Levelled and sub-levelled questions provide clear differentiation and progression.

4.3 Multiplying and dividing fractions

Calculate fractions of quantities and measurements
 Multiply and divide integers by fractions
 Multiply and divide fractions by fractions

What's the BIG idea?

- To find a fraction of a quantity, divide by the denominator and then multiply by the numerator. Level 5
- To multiply a fraction by a whole number you can write the whole number as a fraction.
- To multiply a fraction by a fraction, multiply the numerators and multiply the denominators. Level 7
- To divide fractions, invert the dividing fraction (turn it upside down) and change the division sign to multiplication. Level 7

Why learn this?

When decorating, you may need to calculate areas that involve fractional measurements.

Did you know?

In India fractions are written in exactly the same way as you write fractions but without the line, for example $\frac{2}{3}$ is written as $\frac{2}{3}$.

Level 5

Work out

a $\frac{3}{4}$ of £240 b $\frac{2}{5}$ of £21 c $\frac{1}{3}$ of 480 miles
 d $\frac{1}{4}$ of 15 inches e $\frac{3}{8}$ of £21 f $\frac{1}{2}$ of 132 m

2 Calculate the areas of the shapes.

3 Flo has mixed 5 kg of concrete. If she uses two sevenths of the mix, how much concrete does she have left?

Level 6

59 I can multiply an integer by a fraction

60 I can interpret division as the inverse of multiplication

61 I can divide an integer by a fraction

62 I can cancel common factors in fraction multiplication

Level 7

63 I can multiply a fraction by a fraction

64 I can divide a fraction by a fraction

Now try this!

A Equal shares

Emily has bought 15 bars of chocolate. She wants to give lots of people a piece.

a How many pieces will she have if she breaks the bars into

i halves ii quarters iii thirds?

b What would she need to break the bars into if she wanted to give 75 people a piece?

c How many pieces would Emily have if she broke the bars into n ths?

B Making 10

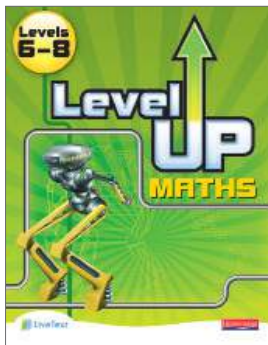
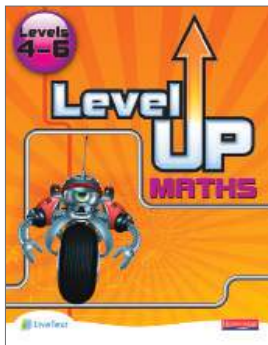
A unit fraction is one whose numerator is 1 (e.g. $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$ etc). You can make the number 10 by multiplying a unit fraction by a whole number in many different ways, for example $\frac{1}{2} \times 20$, $\frac{1}{5} \times 140$.


a Find six other ways of making 10 by multiplying an integer by a unit fraction.

b Describe any patterns you notice. You can also make the number 10 by multiplying integers by non unit fractions.

c If the fraction you choose must have a denominator of 1 more than the numerator, write down as many ways of making 10 as you can, for example $\frac{2}{3} \times 15$.

Extended activities give pupils plenty of opportunities for problem solving and peer discussion.





- ✓ IWB
- ✓ eBooks (Offline)
- ✓ CD (Audio)

LiveText Whiteboard Software

Making maths relevant, engaging and fun

Hosting digital versions of the Pupil Book for whole-class teaching, **LiveText** features additional assets, fun activities and resources to engage your pupils and support your lessons. Lesson plans, activity notes and assessment questions give you flexibility and choice in your lesson planning. Explanations of key concepts and worked solutions help you explain those tricky topics.

- ▶ Audio-glossary in five different languages supports pupils from different cultures.
- ▶ Stimulating, fun and exciting 'World's Greatest Maths' lessons and 'Maths activities' consolidate learning while providing pupils with a memorable learning experience.
- ▶ 1,000 extra sub-levelled questions offer further support, practice and extension.

Also available:

Access Workbooks

With these Access Workbooks, pupils can work at the level they need, from Level 1 upwards.

Homework Books

Featuring a wealth of differentiated practice questions activities to consolidate pupils' learning.

Teacher Planning and Assessment Packs

Easy to use for targeted teaching.

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Level 3-4 Access Book	978 0 435537 44 9
Level 3-5 Pupil Book	978 0 435537 30 2
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Level 5-7 Pupil Book	978 0 435537 32 6
Level 6-8 Pupil Book	978 0 435537 33 3

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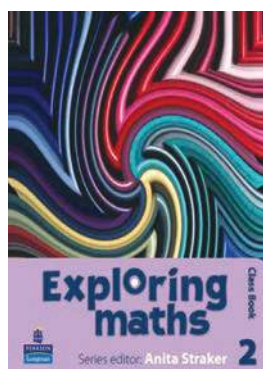
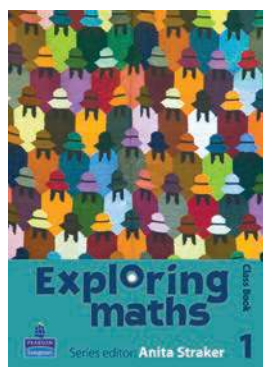
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A Guide to levels for your 11-14 year-olds:

Low attainers: Level 1-2, Level 2-3 and Level 3-4
 Middle attainers: Level 3-5, Level 4-6, Level 5-7
 High attainers: Level 4-6, Level 5-7, Level 6-8





- ✓ eBooks (Offline)
- ✓ IWB
- ✓ CD (ActiveTeach, Audio)

Exploring Maths

A thorough approach to teaching Key Stage 3 (11–14 years) Maths



Exploring Maths provides comprehensive resources with activities that put maths in a real-life context. Including worked examples and opportunities for self-assessment, Exploring Maths ensures all pupils make two levels of progress whatever their ability.

- ▶ **Rigorous assessment throughout** with paper tests and online diagnostic assessment.
- ▶ **Specific Functional Skills activities** for process skills in every tier.
- ▶ **Powerful, interactive toolset available on ActiveTeach** to help you teach all topics at Key Stage 3 (ages 11–14).

ActiveTeach transforms teaching with interactive versions of the Teacher's Book, Class Book and Home Book all available at the touch of a button for hassle-free planning at home or in school. A wealth of digital resources including PowerPoints, simulations, quizzes and spreadsheets all available at your fingertips!

Teacher's Book - Contains over 100 hours of lessons per tier with detailed lesson notes and lots of practical ideas for teaching maths. Each Teacher's Book includes a FREE CD containing all lesson notes, Check-Up Tests, Mental Tests, Resource Sheets, PowerPoint slides, and answers for easy personalisation.

Home Book - Supports and consolidates the work carried out in class. Each lesson has a homework task reinforcing what's been taught in class. Each homework task reminds pupils what they have learned in the lesson, so that they can apply it to the questions.

Class Book - Organised in units to accompany the Teacher's Book, and is designed to help strengthen pupils' understanding. Worked examples at the beginning of each lesson help pupils work independently. Specific Functional Skills tasks focus on the important process skills.

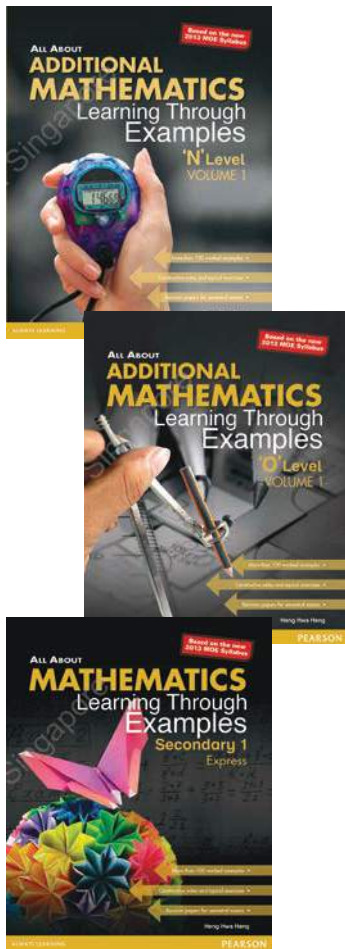
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Students are expected to progress two tiers in three years of teaching.



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**NEW
TITLES**



Essential support for the Singapore syllabus

These instructive books provide step-by-step worked examples to facilitate students' learning in order to achieve success in their Mathematics examination. Organised by topics based on the latest syllabus issued by the Ministry of Education, Singapore, these essential books provide students with a comprehensive revision tool for their school tests and examinations.

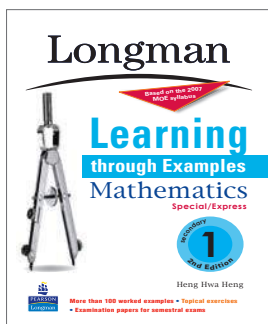
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- ▶ notes on important concepts
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Revision papers are available at the end of the book. They function as summative assessment for students preparing for their semestral examinations. Answers to all questions are provided.

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Learning through Examples

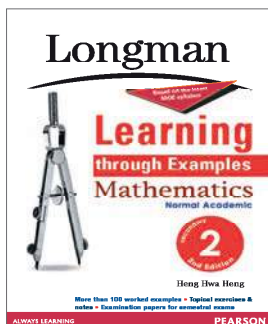
Comprehensive revision for school tests and examinations



Learning through Examples has been written to match the relevant syllabus issued by the Ministry of Education, Singapore. It offers students a comprehensive revision tool for their school tests and examinations.

Each chapter comes with:

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- ▶ numerous worked examples
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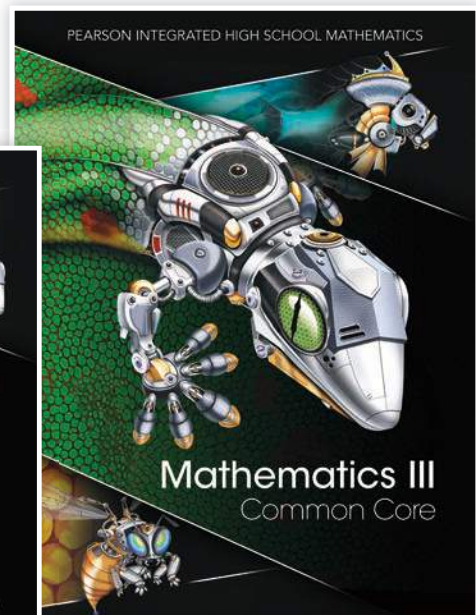
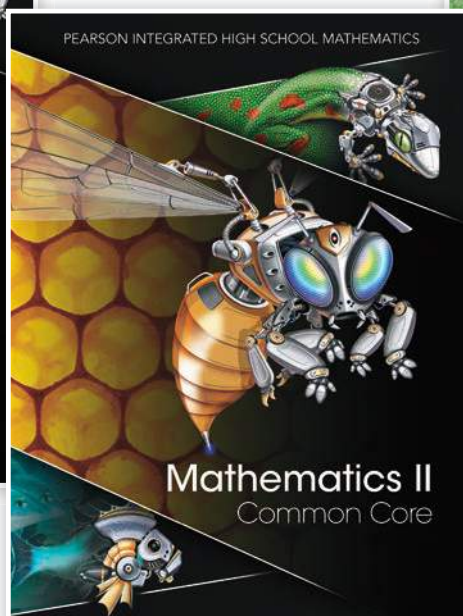
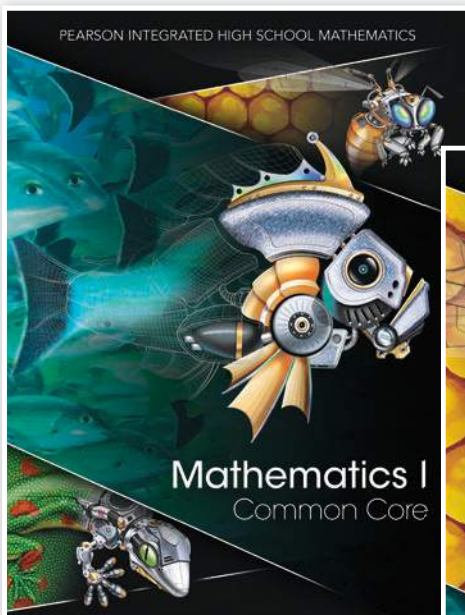
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Interactive, integrated and personalized maths



Pearson Integrated High School Mathematics was built from the ground up for the Integrated Pathway of the Common Core State Standards. The program consists of three courses: Mathematics I, Mathematics II, and Mathematics III.

The instructional model of Pearson Integrated High School Mathematics is unique and designed to support the 21st century learner in mastering high school mathematics. The hybrid instructional model consists of digital delivery of content during instructional time, supplemented by a Write-In Student Edition in which students record their understandings of concepts as they work through the problems. The in-class instruction can be further enhanced with the robust math tools and dynamic activities that are part of the digital courseware.





- ✓ Online Digital Path (SuccessNet)
- ✓ eBooks* (Online, PC/Mac/Tablet)
- ✓ IWB
- ✓ CD/DVD

*Download Pearson eText for Schools App to access eBook.

PERFECT PARTNER

MathXL for School (see page 48) and Language Central for Math (see page 49).

An improved textbook with added interactivity!

Interactive Math

Students have full access to the animated content presented in class. In the Write-In Student Edition, students will find instructional summaries of key concepts in each lesson.

Personalized Math

Students' learning can be further enhanced with the robust math tools and dynamic activities. Visual learning, differentiated lessons, and online tutorials are delivered through both digital and print resources.

Designed Exclusively for the Common Core Integrated Pathway

Rigorous Lesson Design

Independent research proves Pearson's five-step lesson design raises student achievement. Every step in the lesson empowers you to teach the Common Core State Standards while connecting to the Standards for Mathematical Practice.

Engaging Content

Deliver math lessons digitally via interactive whiteboards or projectors. Write-In Student Worktexts let students personalize their learning by jotting down notes, ideas, and questions.

Data-Driven Instruction

Performance tasks, assessments, and Common Core practice problems are embedded throughout the program. These data-driven resources align to the Common Core and prepare students for next-generation assessments.

Differentiate Instruction - Resources to reach all students

Students learn in different ways and at different paces. Unique, built-in resources differentiate instruction to support all levels of learners in becoming successful problem solvers. Differentiating instruction helps all students develop conceptual understanding, fosters mathematical reasoning, and refines problem-solving strategies. Options are available to differentiate instruction at the start of each chapter and throughout the lessons.

Check for Understanding

Following each problem, the *Got It?* provides instant assessment of understanding. Immediate practice follows each *Got It?* Providing additional opportunity to check for student understanding throughout the development of the lesson concepts. Within the Lesson Check, *Do you know HOW?* and *Do you UNDERSTAND?* assess how well students can apply the lesson skills.

Data-Driven Differentiation

Lesson Resources in the Teacher's Guide provide a Lesson Quiz as a tool to differentiate remediation. Resources to meet student needs are listed at point of use.

Intensive Intervention

The Success Tracker™ online assessment system provides instant analysis of student performance. It includes benchmark assessments correlated to the Common Core State Standards. Success Tracker diagnoses student success, prescribes automatic remediation, and reports on student and class progress.

Language Support for Today's Diverse Classrooms

English language learners have twice the challenge. They're learning rigorous math content and a new language, all at once.

ELL Teaching Strategies

Embedded professional development helps every teacher be an ELL teacher. ELL strategies follow every lesson in the Teacher's Guide.

- ▶ Focus on Language and Communication
- ▶ Connect to Prior Knowledge
- ▶ Graphic Organizers
- ▶ Using Role Playing
- ▶ Assessing Understanding

ELL Resources

- ▶ Homework Video Tutors included in the online student resources and available in English and Spanish.
- ▶ Additional Vocabulary Support Worksheets available for every lesson to develop and reinforce vocabulary and key concepts.
- ▶ English/Spanish Glossary Online with audio so English learners can review math vocabulary in their first language.
- ▶ Multilingual Handbook Glossary in ten languages: English, Cambodian, Cantonese, Haitian, Korean, Spanish, Vietnamese, Hmong, Filipino, and Mandarin.

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Pearson Mathematics Algebra 1, Geometry, Algebra 2 Common Core Edition ©2015



Change the way students see math

Pearson Algebra 1, Geometry, and Algebra 2 Common Core Edition ©2015 helps students see math like never before. This blended print and digital curriculum provides an environment where teachers can engage students, teach for understanding, and promote mastery – for success today and throughout life. It's a whole new way to look at math.

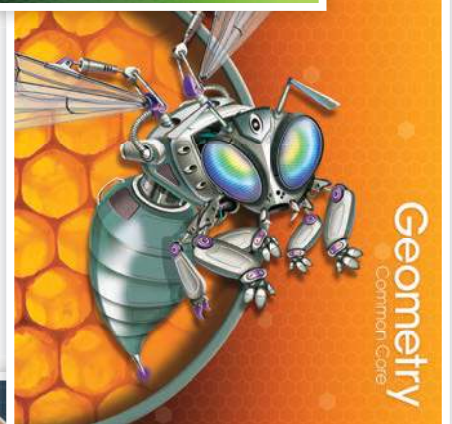
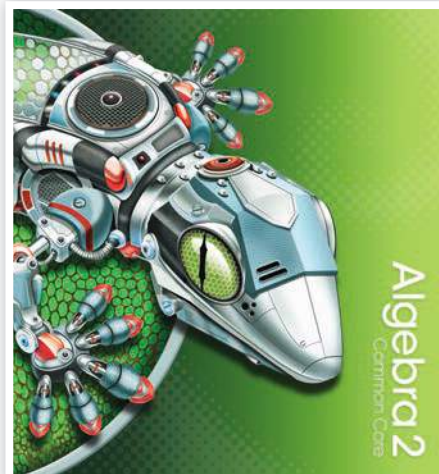
Common Core Edition

This Common Core edition is a rigorous, flexible, and data-driven high school mathematics program. The program's five-step lesson design has already been proven effective by an independent research study. The program fully addresses the Common Core Content Standards and infuses the Standards for Mathematical Practice throughout every lesson.

The National Edition, Prentice Hall Mathematics Algebra 1, Geometry, Algebra 2 ©2011, is still available to order – see title and ISBN list on page 46 for details or go online.

Custom, Flexible Solutions for EVERY Classroom

- Comprehensive on-level program
- Complete digital program
- Foundations series





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- ✓ eBooks* (Online, PC/Mac/Tablet)
- ✓ IWB
- ✓ CD/DVD

PERFECT PARTNER

Language Central for Math
– see page 49.

digits – see page 28

enVisionMath Common Core ©2015 – see online or request a copy of the 2015 Elementary and Primary Catalogue.



Algebra 1 Student Edition ©2012 is available in Spanish

Engage Today's Students

PearsonRealize.com provides a gateway for teachers and students to all digital components of the program. Teachers can enrich instruction with interactive lesson content and video that makes real-world connections, and can model thinking and reasoning using interactive tools. Students can complete lessons independently using the online content to support in-class instruction.

- ▶ eText with Audio
- ▶ Interactive Digital Path
- ▶ Math XL for School mid-chapter and end-of-chapter practice
- ▶ Online next-generation assessments

Exceptional Teaching Support

Provides a wealth of teaching resources that make teaching easier and support the transition from a state standards-based curriculum to one that embraces all the concepts and skills that comprise the Common Core State Standards.

- ▶ Common Core Implementation Guide
- ▶ Answers and Solutions CD-ROM
- ▶ Classroom Management Resources
- ▶ ExamView CD-ROM

Assess Student Progress

Features a rich array of diagnostic, formative, and summative assessment tools so that you can assess and remediate your students' progress every step of the way. These assessments are available in print and online and support the transition to new assessments that will be aligned to the Common Core Standards.

Foundations Series

Pearson Algebra 1, Geometry, Algebra 2, Foundations Series ensures full coverage of the Common Core State Standards by delivering comprehensive and rigorous content, but in an alternate approach that makes it accessible to all students. The unique method of content delivery within separate Student and Teacher Editions improves self-sufficiency and guarantees success.

- ▶ Shorter Lessons and Chapters
- ▶ More Scaffolded Support
- ▶ Model Thinking
- ▶ Leveled Resources

Problem 4 Graphing an Exponential Model

Maps Computer mapping software allows you to zoom in on an area to view it in more detail. The function $f(x) = 100 \cdot 0.25^x$ models the percent of the original area the map shows after zooming in x times. Graph the function.

Think Should you connect the points of the graph? No. The number of times you zoom in must be a nonnegative integer.

x	$f(x) = 100 \cdot 0.25^x$	$(x, f(x))$
0	$100 \cdot 0.25^0 = 100$	(0, 100)
1	$100 \cdot 0.25^1 = 25$	(1, 25)
2	$100 \cdot 0.25^2 = 6.25$	(2, 6.25)
3	$100 \cdot 0.25^3 \approx 1.56$	(3, 1.56)
4	$100 \cdot 0.25^4 \approx 0.39$	(4, 0.39)

Got It? 4. a. You can also zoom out to view a larger area on the map. The function $f(x) = 100 \cdot 4^x$ models the percent of the original area the map shows after zooming out x times. Graph the function.
b. **Reasoning** What is the percent change in area each time you zoom out in part (a)?

2-5 Literal Equations and Formulas

Objective To rewrite and use literal equations and formulas

Getting Ready! You are ordering pizzas and sandwiches. You have a budget of \$50. How many sandwiches can you buy if you buy 4 pizzas? 5 pizzas? Explain your answer.

Essential Understanding When you work with literal equations, you can use the methods you have learned in this chapter to solve for particular variables.

Problem 1 Rewriting in Literal Equation
The equation $10x + 5y = 80$, where x is the number of pizzas and y is the number of sandwiches, models the problem in the video. How many sandwiches can you buy if you buy 4 pizzas?

Step 1 Solve the equation $10x + 5y = 80$ for y .

$$10x + 5y = 80$$

$$10x + 5y - 10x = 80 - 10x$$

$$5y = 80 - 10x$$

$$y = 16 - 2x$$

Step 2 Use the inverse operations to find y when $x = 4$ and when $x = 5$.

$$y = 16 - 2x$$

$$y = 16 - 2(4) \quad y = 16 - 8$$

$$y = 10 \quad \text{Simplify.}$$

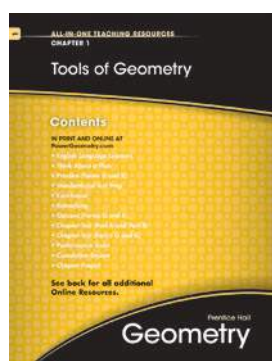
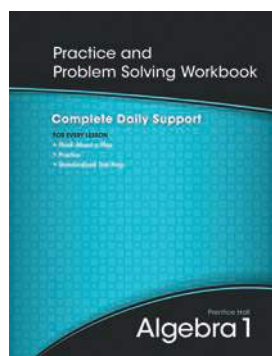
Think Why should you rewrite the equation? If you rewrite the equation, you have to isolate y only once. Then substitute for x . But, you must always take steps for each x -value.

Check Your Understanding Solving for x for any variable.

Review [Review](#) [Practice](#) [Assess](#)

Lesson 2-5 Literal Equations and Formulas 109

100% Alignment to the Common Core Standards



Pearson Mathematics Algebra 1, Geometry, Algebra 2 Common Core ©2015 (continued)

Differentiate Instruction

Students learn in different ways and at different paces. Unique, built-in resources differentiate instruction to support all levels of learners in becoming successful problem solvers. Options are available to differentiate instruction at the start of each chapter and throughout the lessons.

Built-in Intervention and Enrichment

Leveled resources are included within the Teacher's Edition at the end of each lesson (intervention, on-level and extension). These lesson resources provide a detailed blueprint for instruction, assessment, and remediation.

ELL

Teaching suggestions and activities within the Teacher's Edition promote language development and comprehension for English Language Learners. The Multilingual Handbook in the online resources includes a visual glossary in ten different languages. Additional resources for Spanish speaking students include a Spanish Visual Glossary with audio and Spanish worksheets and assessment resources.

Contents (on-level)

Algebra 1	Geometry	Algebra 2
1 Foundations for Algebra	1 Tools of Geometry	1 Expressions, Equations, and Inequalities
2 Solving Equations	2 Reasoning and Proof	2 Functions, Equations, and Graphs
3 Solving Inequalities	3 Parallel and Perpendicular Lines	3 Linear Systems
4 An Introduction to Functions	4 Congruent Triangles	4 Quadratic Functions and Equations
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12 Data Analysis and Probability	12 Circles	12 Matrices
		13 Periodic Functions and Trigonometry
		14 Trigonometric Identities and Equations

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An earlier edition is available - see pages 46-47.

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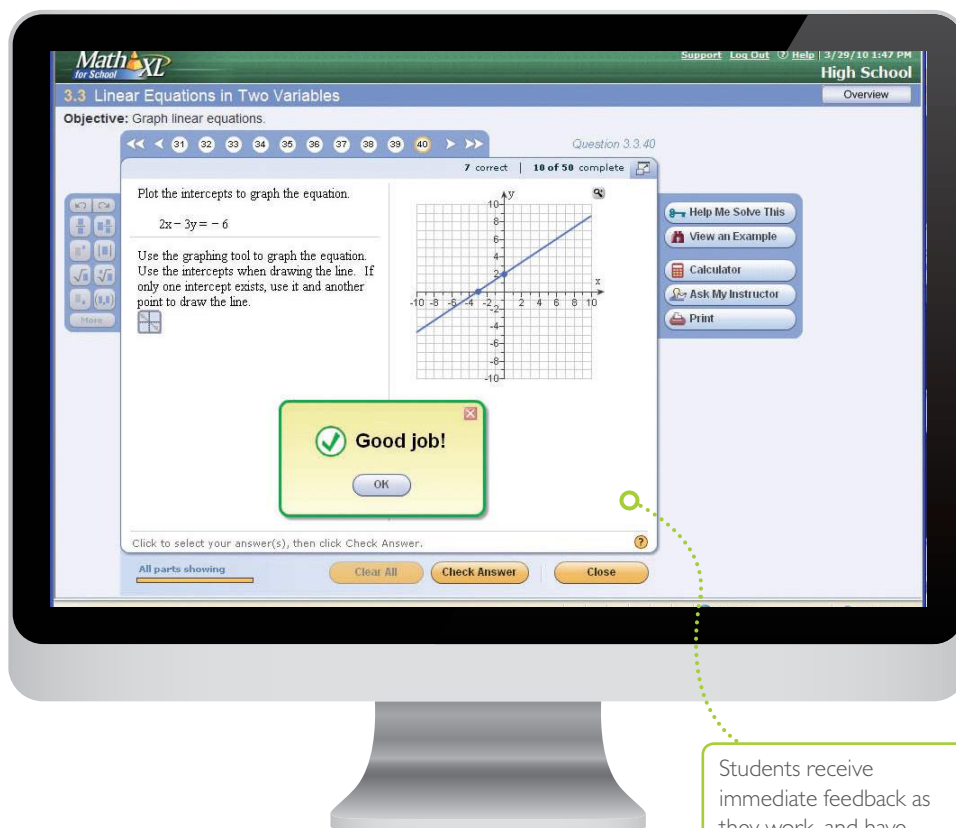
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Vocabulary in Context Picture It!

Area The space a surface takes up. It is measured in square units.
 Symbol: A

$A = 4 \times 7 = 28$ square units

Perimeter The distance around a figure
 Symbol: P

$P = 10 \text{ in.} + 10 \text{ in.} + 10 \text{ in.} + 10 \text{ in.} = 40 \text{ in.}$

When you **measure** something you find a **measurement** of the object. Measurements include length, weight, capacity, or other dimensions of the object.

Inches and feet measure length. 12 inches equals 1 foot.

Unit A precise quantity used to measure

Square feet

Edge Where two sides of a figure join or intersect

Vertex/Vertices Point where two or more edges meet; a corner

Talk About It
 Talk with a partner to complete these sentences.

- Another name for a corner of a surface is the ...
- ... is the measurement of the space a surface takes up.
- P is the symbol for the distance around a figure, or its ...

Your Turn
 Describe what you think you are going to learn. Use the sentence starter for support.
 I am going to learn about ...

70 Lesson 18

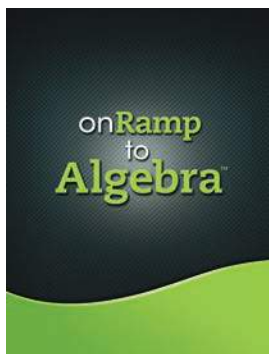
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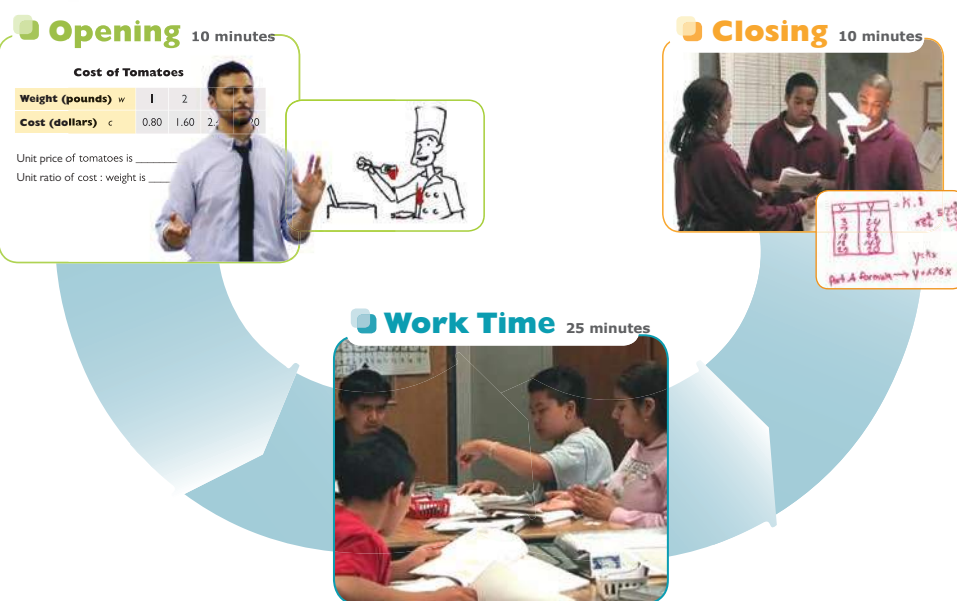
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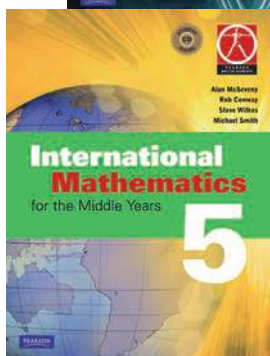
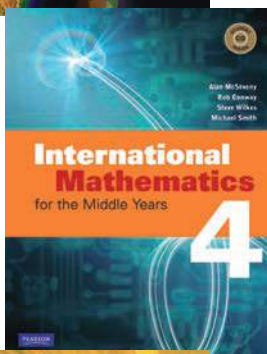
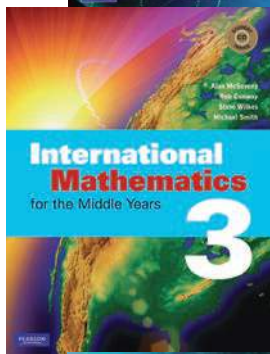
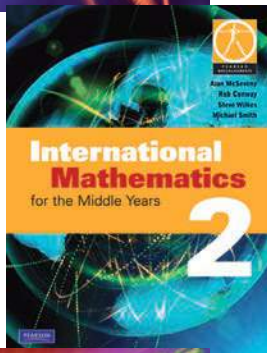
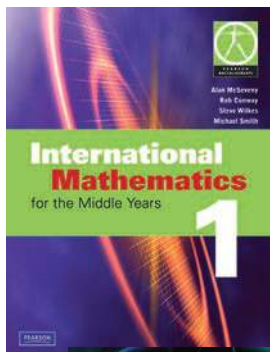
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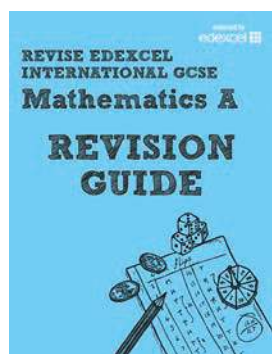
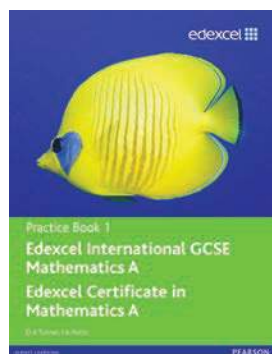
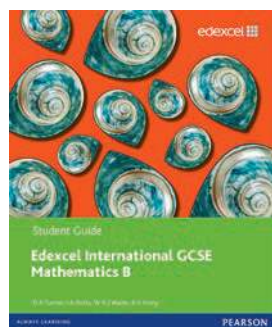
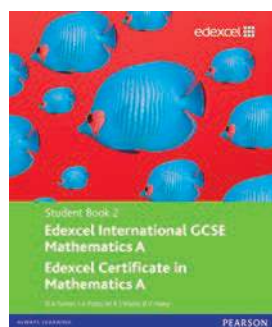
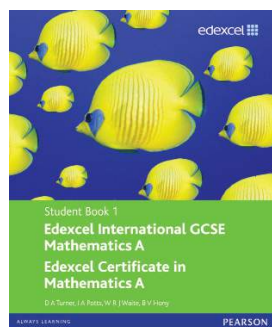
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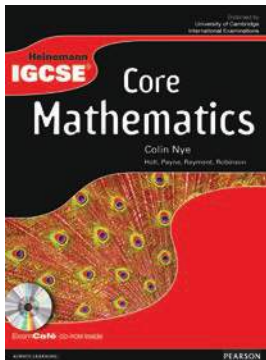
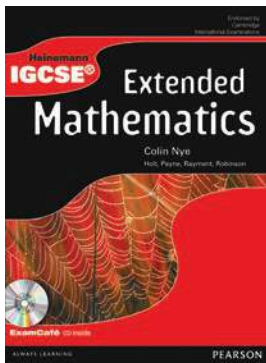
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3 Simplify these algebraic expressions.

(a) $10b - 7b$ (b) $6y - y$ (c) $12z - 8z$
 (d) $8r - 2r$ (e) $6j + 5j - 7j$ (f) $5u + 3u - 6u$
 (g) $h + h + h$ (h) $7t - 5t + 3t$ (i) $6x - x - 3x$
 (j) $4r - r + 5r - 2r$

4 In these rectangles the sum of the expressions in each row, each column, and in the two diagonals, is the same. Copy and complete each of these rectangles.

		$6x$
	$5x$	
$4x$	$3x$	

$5y$	$8y$	$11y$
		$9y$

In this square $4x + 5x + 6x = 15x$, so each row, column and diagonal must add up to $15x$.

4.3 Collecting like terms

$3a + 6b + 5a$ This expression has three terms.

$3a$ is one term. $6b$ is the second term. $5a$ is the third term.

Terms which use the same letter are called like terms.

$3a$ and $5a$ are like terms in the expression $3a + 6b + 5a$.
 Terms which use the same combination of letters are also called like terms.

$6xy + 5x^2 - 2xy + 3x^2 + 2x$
 $6xy$ and $2xy$ are like terms,
 $5x^2$ and $3x^2$ are like terms,
 $3x^2$ and $2x$ are not like terms.

You can simplify algebraic expressions by collecting like terms together.

$$3a + 6b + 5a = 3a + 5a + 6b = 8a + 6b$$

For example,
 $6xy + 5x^2 - 2xy + 3x^2 + 2x = 6xy - 2xy + 5x^2 + 3x^2 + 2x = 4xy + 8x^2 + 2x$

Rearrange so that like terms are next to each other.

You keep the + or - sign with the term so the - stays with $2xy$, and the term is $-2xy$.

Basic rules of algebra

EXAMPLE 5

Simplify these expressions by collecting like terms.

(a) $2a + 7b + 3a$ (b) $4p + 5 + 3p - 2$
 (c) $6f + 5g - 4f + g$ (d) $4ab - 6a + 3ab - 2a$

(a) $2a + 7b + 3a = 2a + 3a + 7b = 5a + 7b$
 (b) $4p + 5 + 3p - 2 = 4p + 3p + 5 - 2 = 7p + 3$
 (c) $6f + 5g - 4f + g = 6f - 4f + 5g + g = 2f + 6g$
 (d) $4ab - 6a + 3ab - 2a = 4ab + 3ab - 6a - 2a = 7ab - 8a$

Collect the terms in p , and collect the terms which are just numbers.

Remember to keep the - sign with the $4f$.

$4ab$ and $3ab$ are like terms, $-6a$ and $-2a$ are like terms.

EXAMPLE 6

Write an expression for the perimeter of this rectangle, in its simplest form.

$3x + 2$

 $2x - 1$

$3x + 2 + 3x + 2 + 2x - 1 + 2x - 1 = 3x + 3x + 2x + 2x + 2 + 2 - 1 - 1 = 10x + 2$

To work out the perimeter of a shape you need to add together the lengths of all its sides.

EXERCISE 4C

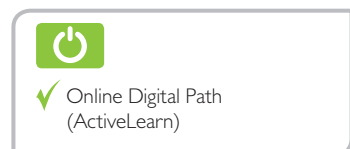
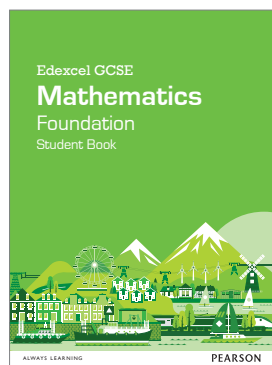
1 Simplify these expressions by collecting like terms.

(a) $2c + 7d + 3c$ (b) $3m + 4r + 2m$
 (c) $6x + 4y + x$ (d) $4a + 8b + 6a$
 (e) $2q + 6 + 3q + 2$ (f) $7p + 2 + 5p + 3$
 (g) $5j + 4 + 6j + 1$ (h) $6w + 7 + 2w + 3$

2 Simplify these expressions by collecting like terms.

(a) $5x + 4y - 2x$ (b) $7a + 3b - 5a$
 (c) $8k + 3m - 4k$ (d) $12h + 7j - 4h$
 (e) $4q + 5 + 3q - 2$ (f) $6p + 7 + 2p - 3$
 (g) $5r + 2 - 3r + 1$ (h) $9z + 4 - 8z + 6$

x means 1x.



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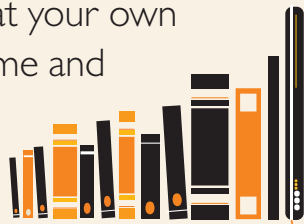
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* Please note, at time of writing the new Edexcel GCSE specification is subject to accreditation by Ofqual. Visit the Edexcel website for the latest information:

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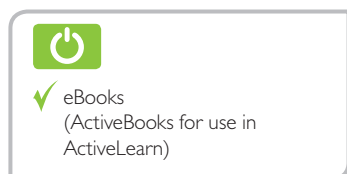
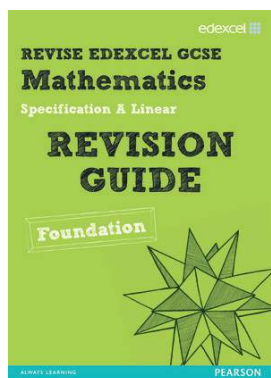
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Revise GCSE Mathematics

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NEW

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see page 52

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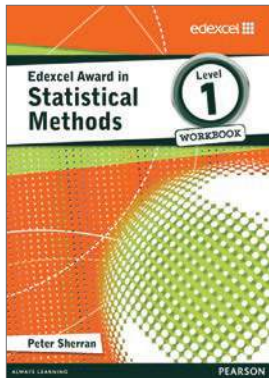
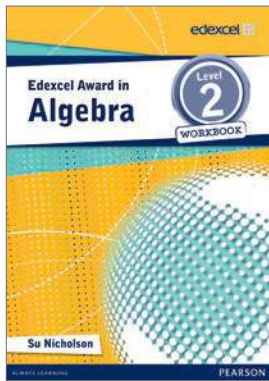
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- Offering excellent value, these Workbooks have plenty of practice questions as well as exam-style questions and a complete practice paper.
- Ideal for the classroom and for independent student use.

NUMBER AND MEASURE

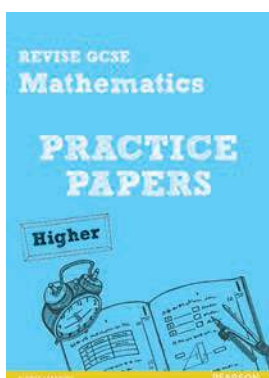
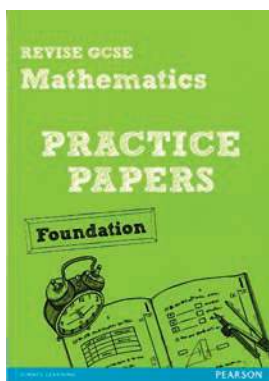
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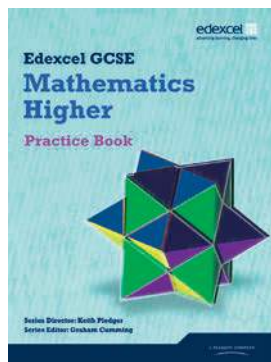
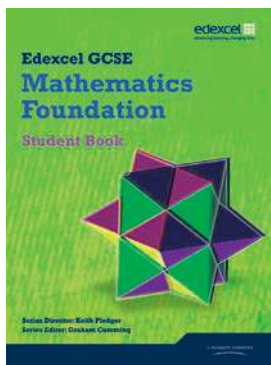
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Revise GCSE Mathematics
– see page 58

Edexcel GCSE Mathematics 2010

Edexcel's own course for GCSE 2010 Maths



These dedicated resources for both specifications come packed with activities, support and targeted practice, with a real focus on assessment throughout.

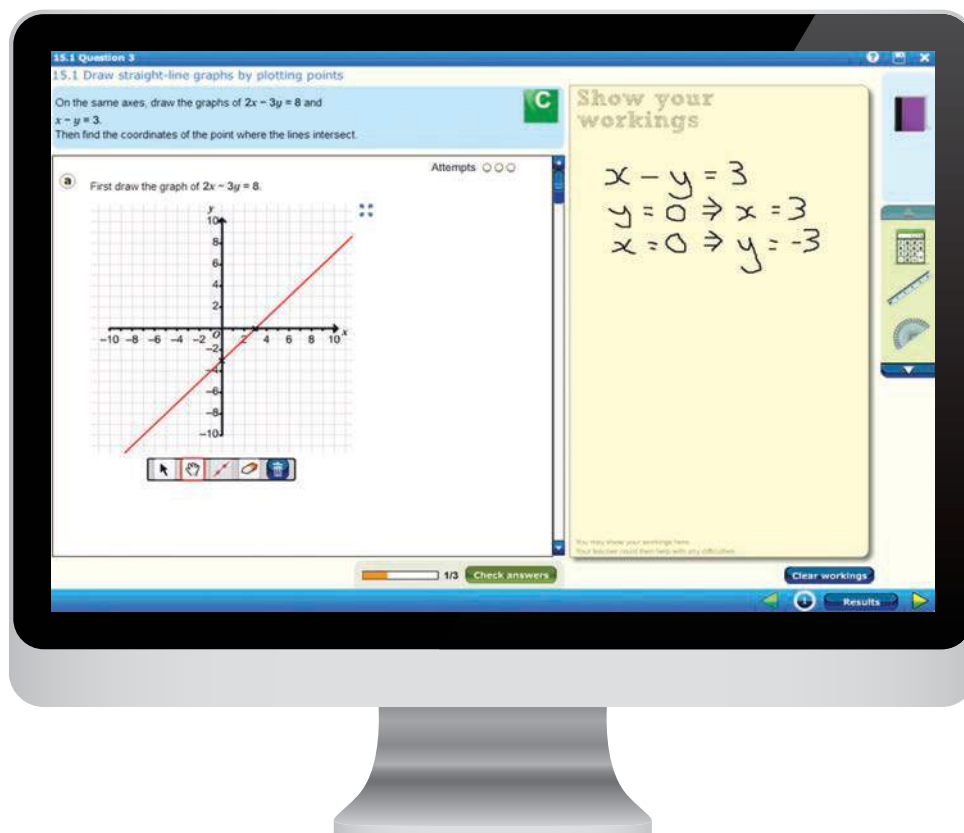
VLE-compatible **ActiveTeach** combines innovative teaching resources, interactive problem-solving activities, BBC Active video clips, as well as new additional support for planning and assessment for learning.

Targeted **Practice Books** cater for all abilities and provides crucial support for borderline C/D students, as well as focused practice work for students aiming for the top A and A* grades.

Foundation and Higher **Student Books** ensure maximum engagement and make maths relevant. Worked examples throughout break the maths down into easy chunks. Uses senior examiner feedback to highlight common errors.

Higher and Foundation **Teacher Guides** with a focus on assessment, contain original and imaginative task ideas, worksheets, lesson plans and more – all of which are completely customisable via the CD.

Covering both Foundation and Higher tiers, the **Assessment Pack** gives you a wealth of tools to make teaching the 2010 specification as easy as possible.



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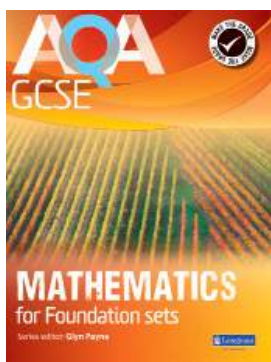
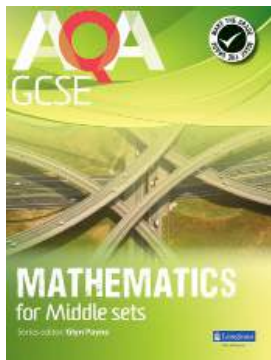
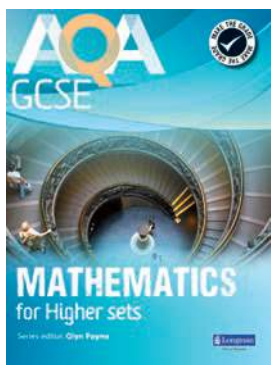
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Assessment Pack



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(Offline CD)
- ✓ IWB
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(ActiveTeach, audio)

PERFECT PARTNER

Revise Maths GCSE
– see page 56

Covering both Foundation and Higher tiers, the Assessment Pack guides you through the new AQA GCSE Mathematics 2010 specification and provides complete clarity on the new Assessment Objectives (AO2 and AO3).

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Written to support you through the teaching of the AQA GCSE Mathematics 2010 specification, these Teacher Guides – one for Foundation, Middle and Higher Sets – come packed with activities for whole-class and individual work. They also include editable CDs so you can adapt the material to your own needs.

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Images throughout make the questions come to life.

Edexcel GCSE Statistics

Edexcel resources for the 2009 GCSE Statistics specification



Edexcel's own GCSE Statistics resources have been written by Edexcel experts to ensure you have all the support you need to deliver the new specification with confidence.

Student Book

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The ActiveTeach contains interactive versions of the Student Book and Teacher Guide, PowerPoint presentations linked to lesson plans and worked solutions to all the exam paper questions in the Student Book.

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- Designed for skim-reading to save you time.
- Includes worksheets and schemes of work.
- End-of-chapter tests are provided to monitor progression.
- All available as editable Word files on the CD-ROM.
- Lesson Plans linked to Powerpoints on the ActiveTeach CD-ROM.

Chapter 1: Collecting data 13

Exercise 1B

- A new canteen is going to open at Edewell College. The canteen manager wants to find out what students would like on the menu. He decides to ask the students.
 - Write down the population he should use.
 - Describe a sampling unit.
 - Give **one** advantage and **one** disadvantage of him using a census.
- An estate agent wants to get information about house prices in the city where she works.
 - What is the population she will use?
 - Why would she not use a census of the house prices? She decides to use a sample. She also decides to use the price of all houses on her list of houses for sale.
 - Give a reason why this might be a poor sample.
- A college decides to investigate the number of hours that students study per week.
 - Describe the sampling frame the college will use.
 - Describe a sampling unit.
- Give **two** advantages of using a sample rather than a census.
 - Give **two** advantages of using a census rather than a sample.
- Jack wishes to find out how much people in Britain are prepared to spend on a weekend break. He asked people in his village.
 - Identify Jack's population.
 - Explain why Jack's sample is likely to be biased.
- Write the name of the sampling method that is being used in each of these cases.
 - Yves needs a sample of 20 people from a numbered list of 100. He generates 20 random numbers and uses those numbered people.
 - A factory manager requires a sample of 20 from his work force of 60 men and 40 women. He randomly selects 12 men and eight women.
- A nursery school has three age groups. The first age group has 60 children, the second has 40 children, and the third has 20 children. Describe how you would get a sample of 30 children, stratified by age.

ResultsPlus
Build Better Answers

Question: A market research company is going to do a national opinion poll. They want to find out what people think about the European Union. The company is going to do a telephone poll. First they will pick 10 towns at random. Then they will pick 10 telephone numbers from the telephone book for each town. They will ring these 100 telephone numbers. The people who answer will form the sample. Discuss whether this will form a satisfactory sample for the poll. (2 marks)

Zero marks
Over a quarter of candidates scored no marks for this question. The examiners were looking for two reasons why the sample would not be satisfactory.

Good
For a good answer you need to give one reason, for example point out that the number involved (100 or less) is too small to represent the whole country.

Excellent
For an excellent answer you need to give two reasons. A second reason might be that using only 10 towns to represent the country could lead to bias.

Chapter 1: Collecting data 14

- A university decides to investigate the use of the common room facilities. It wants to ask a sample of 50 students in total from three year groups.

Year group 1 has 540 males and 420 females.
Year group 2 has 600 males and 660 females.
Year group 3 has 360 males and 420 females.

It decides to use a stratified sample.

 - Describe the strata it will use.
 - Work out the number of males and females in each stratum that will be used.
 - Describe how it will choose the individual members of the strata.
- Here is an extract from a table of random numbers.

335217	045178	627341	532715	823859	482082	342173
451739	936415	526338	127642	137284	463919	394821
264519	143857	012653	628491	558317	316832	229103

 - Select 10 random numbers each less than 50. Start at the top left-hand corner and work across from left to right.
 - Select 10 random numbers each less than 50. Start at the top left-hand corner and work down in pairs, and from left to right.
- Tim is asked to take a random sample of 25 students from the registration roll at his school. He attempts to do so by:
 - listing all their names in order
 - rolling a dice
 - selecting the student shown by the number on the dice (i.e. if the dice shows a 4, he selects the student numbered four in the list)
 - rolling the dice again. If it shows a 3, he selects the 4th + 3rd = 7th name on the list, and so on.

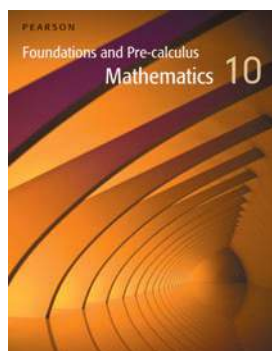
Give **two** reasons why Tim's method will not give him a random sample.
- Write the name of the sampling method that is being used in each of these cases.
 - A health centre is interested in which of their facilities are most appreciated by patients. They send a questionnaire to every 20th person on their patient list starting at a random number between 1 and 20.
 - A market research company wants some information about the use of parking bays in a supermarket car park. They question 20 people in total from four different age groups of the population.
 - A company director wants to know what his workers think about the company pension plan. There are 20 departments in the factory. He asks people in eight of the departments.

ResultsPlus
Watch out!

Many students forget that the sample from each stratum should be taken randomly.

Sample pages from Edexcel GCSE Statistics Student Book

ResultsPlus boxes in the Student Book show students how to fulfil their full potential.



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(Online, PC/Mac/Tablet)

✓ CD/DVD

PERFECT PARTNER

Pre-Calculus 11 and 12 –
see page 64

Foundations and Pre-Calculus Mathematics 10

*The solution for WNCB Grade 10
Foundations of Math and
Pre-Calculus course*



Foundations and Pre-Calculus Mathematics 10 organises the WNCB Grade 10 Foundations of Math and Pre-Calculus course into three major topics. By focusing on one topic at a time, students can spend more time on new concepts, develop a deeper understanding, improve their recall of math concepts and strategies and make connections across topics.

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1. Measurement
2. Trigonometry

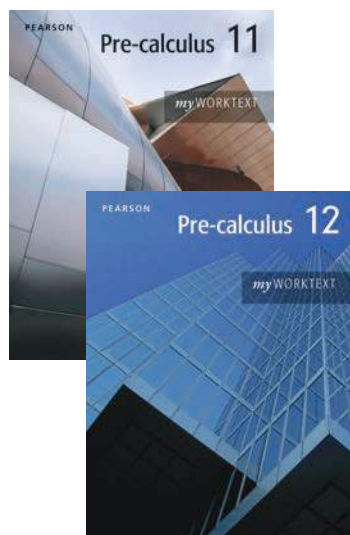
Algebra and Numbers


3. Factors and Products
4. Roots and Powers


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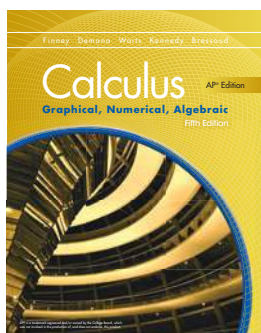
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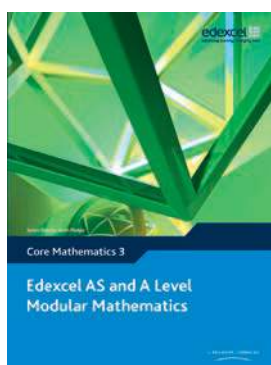
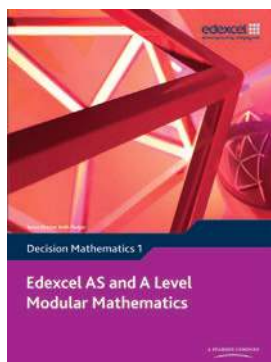
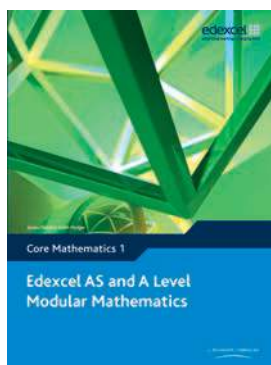
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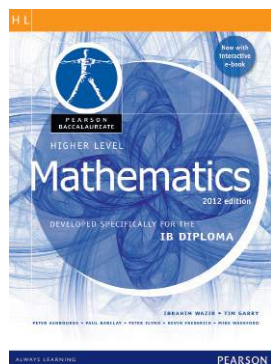
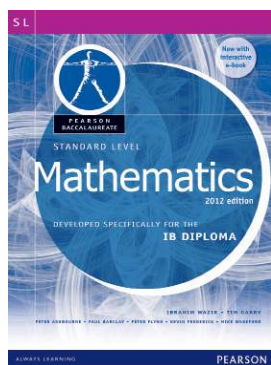
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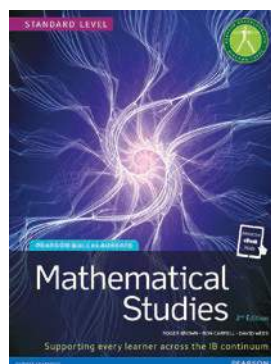
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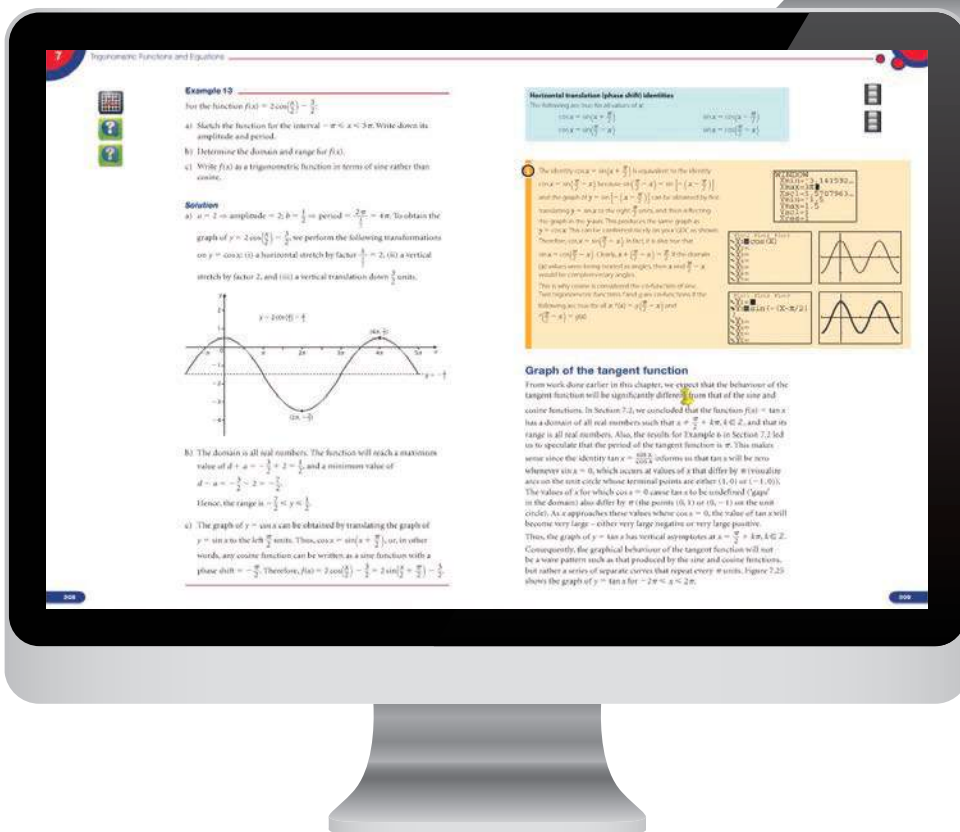


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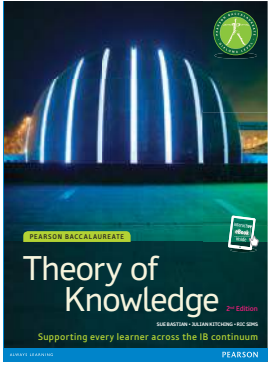


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03 Areas of knowledge

Some of the AOKs refer to groups of related disciplines, for example:

- natural sciences include many groups (biology, chemistry, physics)
- human sciences include some groups (sociology, economics, psychology)
- arts include groups (visual arts, drama, dance, music, film and group 1 literature).

Other AOKs represent single disciplines:

- history (group 4)
- mathematics (group 5)

And you often represent forms of knowledge and specific knowledge as subjects in the IB Diploma:

- ethics
- religious knowledge systems
- indigenous knowledge systems

So there are eight AOKs in the TOK programme, of which you are expected to study six in depth. Your teacher will suggest to you which two to choose for the requirement. Figure 3.2 shows all the AOKs with some disciplinary history of which are offered in the IB Diploma played out at only around the world.

You might ask why AOKs take precisely this form, the pattern of disciplines as opposed to any other. This is something we will return to in this book.

Exploring

- On what basis would you explain the following? Could these necessarily be corrected?
 - Chemistry and biology belong together in the same AOK.
 - History and economics belong to separate AOKs.
 - Literary studies and drama belong together in the same AOK.
 - History and mathematics should be combined AOKs on their own.
 - Religious knowledge is an AOK.
 - Geography is a human science.
 - Algebra and geometry are not separate AOKs.
- What do ethics in your class entail?

What are the grounds for your answers? You may have mentioned the kind of subject matter of each discipline. Or possibly the ways in which they go about their business. Or possibly the kind of language they use. In doing this, you are starting to see how the content of a discipline is related to its structure and how these two things are related.

The knowledge framework

As you identified in the previous exercise, each AOK possesses certain types of forms that can be used and used. These forms are also functions in terms of comparing different AOKs.

We can understand these methods of analysing and comparing AOKs by creating a knowledge framework (Figure 3.3). Creating a knowledge framework for each of the eight AOKs will provide a common platform for how they are different and how they are alike.

Knowledge framework

Scope and applications	<ul style="list-style-type: none"> • What is the area of knowledge about? • What practical problems can be solved through applying this knowledge? • What makes the area of knowledge important? • What makes the area of knowledge a subject of the world – an ongoing pursuit that can be taught and learned? • Are there shared considerations that link the scope of the inquiry? If so, what are they?
Example language	<ul style="list-style-type: none"> • What are the distinctive ways in which the members of knowledge in this area? • What are the distinctive ways in which the members of knowledge in this area? • What is the distinctive way of knowledge in this area? • What is the distinctive way of knowledge in this area?
Methodology	<ul style="list-style-type: none"> • What are the methods or procedures used in the area of knowledge to produce knowledge? • What are the distinctive ways in which the members of knowledge in this area? • What are the distinctive ways in which the members of knowledge in this area? • What are the distinctive ways in which the members of knowledge in this area?
Intellectual development	<ul style="list-style-type: none"> • What is the significance of the key points in the intellectual development of the area of knowledge? • What is the history of the area and its evolution?
Links to personal knowledge	<ul style="list-style-type: none"> • Why is this important to the individual? • What is the history of the development of individual in this area? • What are the distinctive ways in which the members of knowledge in this area? • What are the distinctive ways in which the members of knowledge in this area?

Using the knowledge framework as a tool, to look at what kind of subject matter each AOK is focused on, and how the knowledge produced is used. We cannot have this knowledge is produced and shared, and how a common understanding of it is achieved among communities of learners. We look at how the knowledge is produced, applied, the content of it, and how it is used in the development and use of the area of knowledge. To help us with this goal, we will now explore the framework as discussed in Chapter 3 along the way.

Remember that knowledge is a kind of map, not like that disciplines and AOKs are other. We return.

Let us now consider the details of these two examples.

3.2 Scope and applications

Knowledge frameworks: Scope and applications –
What is the area of knowledge about?

Scope

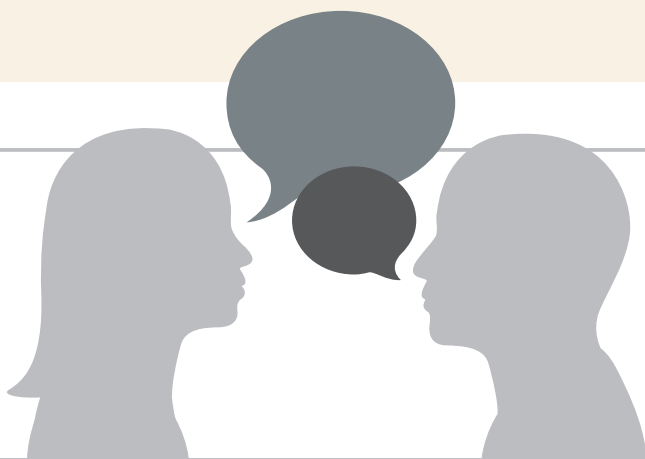
In 2011, the British American philosopher Alfred North Whitehead used the distinction between a map and the territory it represents as a metaphor for the relationship

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