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## Contents

### AGES 11-14 • UK YEARS 7-9 • US GRADES 6-8

<table>
<thead>
<tr>
<th>SERIES</th>
<th>CURRICULUM</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prentice Hall Mathematics: Course 1, Course 2, Accelerated Grade 7, and Course 3 Common Core ©2013 <strong>NEW EDITION</strong></td>
<td></td>
<td>12-17</td>
</tr>
<tr>
<td>Math Navigator ©2012 Common Core</td>
<td></td>
<td>18-19</td>
</tr>
<tr>
<td>Math Makes Sense</td>
<td></td>
<td>20-21</td>
</tr>
<tr>
<td>Connected Mathematics Project 3 (CMP3) ©2014 digits ©2015 <strong>NEW EDITION</strong></td>
<td></td>
<td>22-27</td>
</tr>
<tr>
<td>KS3 Maths Progress <strong>NEW</strong></td>
<td></td>
<td>30-33</td>
</tr>
<tr>
<td>Level Up Maths</td>
<td></td>
<td>34-35</td>
</tr>
<tr>
<td>Exploring Maths</td>
<td></td>
<td>36</td>
</tr>
<tr>
<td>All About Mathematics <strong>NEW TITLES</strong></td>
<td></td>
<td>37</td>
</tr>
<tr>
<td>Learning through Examples</td>
<td></td>
<td>37</td>
</tr>
</tbody>
</table>

### AGES 14-16 • UK YEARS 10-11 • US GRADES 9-10

<table>
<thead>
<tr>
<th>SERIES</th>
<th>CURRICULUM</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pearson Integrated High School Mathematics Common Core ©2014</td>
<td></td>
<td>38-40</td>
</tr>
<tr>
<td>Pearson Mathematics Algebra 1, Geometry, Algebra 2 Common Core Edition ©2015</td>
<td></td>
<td>42-47</td>
</tr>
<tr>
<td>MathXL for School ©2015 <strong>NEW EDITION</strong></td>
<td></td>
<td>48</td>
</tr>
<tr>
<td>Language Central for Math ©2011</td>
<td></td>
<td>49</td>
</tr>
<tr>
<td>onRamp to Algebra ©2013</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>International Mathematics for the Middle Years</td>
<td></td>
<td>51</td>
</tr>
<tr>
<td>Edexcel International GCSE Mathematics <strong>NEW TITLES</strong></td>
<td>GCSE</td>
<td>52</td>
</tr>
<tr>
<td>Heinemann IGCSE® Mathematics Core and Extended</td>
<td>GCSE</td>
<td>53</td>
</tr>
<tr>
<td>Edexcel GCSE Maths <strong>NEW</strong></td>
<td></td>
<td>54-55</td>
</tr>
<tr>
<td>Revise GCSE Mathematics</td>
<td></td>
<td>56</td>
</tr>
<tr>
<td>Edexcel Mathematics Awards</td>
<td></td>
<td>57</td>
</tr>
<tr>
<td>Revise GCSE Mathematics Practice Papers</td>
<td></td>
<td>57</td>
</tr>
<tr>
<td>Edexcel GCSE Mathematics 2010</td>
<td></td>
<td>58-59</td>
</tr>
<tr>
<td>AQA GCSE Mathematics 2010</td>
<td></td>
<td>60-61</td>
</tr>
<tr>
<td>Edexcel GCSE Statistics</td>
<td></td>
<td>62</td>
</tr>
<tr>
<td>Foundations and Pre-Calculus Mathematics 10</td>
<td></td>
<td>63</td>
</tr>
</tbody>
</table>

### AGES 16-19 • UK YEARS 12-13 • US GRADES 11-12

<table>
<thead>
<tr>
<th>SERIES</th>
<th>CURRICULUM</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Calculus 11 and 12</td>
<td></td>
<td>64</td>
</tr>
<tr>
<td>Edexcel AS &amp; A Level Modular Maths</td>
<td></td>
<td>68-69</td>
</tr>
<tr>
<td>Pearson Baccalaureate: Mathematics</td>
<td>IB</td>
<td>70-71</td>
</tr>
<tr>
<td>Theory of Knowledge for the IB Diploma</td>
<td>IB</td>
<td>72</td>
</tr>
</tbody>
</table>

### NEW FOR 2014

**KS3 Maths Progress**  
Pages 30-33

**Edexcel GCSE Maths**  
Pages 54-55

### NEW EDITION

**Prentice Hall Mathematics: Course 1, Course 2, Accelerated Grade 7, and Course 3 Common Core ©2013**  
Pages 12-17
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.
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
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.
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.
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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.

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A SIS that involves teachers, pupils and parents
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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

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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.
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
Ages 11-14 • UK Years 7-9 • US Grades 6-8

Individualized Intervention and Remediation with Success Tracker™ Online.

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

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

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

TRANSPARENCIES

<table>
<thead>
<tr>
<th>Description</th>
<th>ISBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Examples On Transparencies Course 1</td>
<td>978 0 133721 79 9</td>
</tr>
<tr>
<td>Additional Examples On Transparencies Course 2</td>
<td>978 0 133721 80 5</td>
</tr>
<tr>
<td>Additional Examples On Transparencies Course 3</td>
<td>978 0 133721 81 2</td>
</tr>
<tr>
<td>Additional Examples On Transparencies Algebra Readiness</td>
<td>978 0 133721 82 9</td>
</tr>
<tr>
<td>Classroom Aid Transparencies</td>
<td>978 0 133721 83 6</td>
</tr>
<tr>
<td>Problem of The Day Transparencies Course 1</td>
<td>978 0 133721 99 7</td>
</tr>
<tr>
<td>Problem of The Day Transparencies Course 2</td>
<td>978 0 133722 00 0</td>
</tr>
<tr>
<td>Problem of The Day Transparencies Course 3</td>
<td>978 0 133722 01 7</td>
</tr>
<tr>
<td>Student Edition Answers On Transparencies Course 1</td>
<td>978 0 133722 03 1</td>
</tr>
<tr>
<td>Student Edition Answers On Transparencies Course 2</td>
<td>978 0 133722 04 8</td>
</tr>
<tr>
<td>Student Edition Answers On Transparencies Course 3</td>
<td>978 0 133722 05 5</td>
</tr>
<tr>
<td>Student Edition Answers On Transparencies Algebra Readiness</td>
<td>978 0 133722 06 2</td>
</tr>
<tr>
<td>Daily Skills Check/Lesson Quiz Transparencies Course 1</td>
<td>978 0 133721 84 3</td>
</tr>
<tr>
<td>Daily Skills Check/Lesson Quiz Transparencies Course 2</td>
<td>978 0 133721 86 7</td>
</tr>
<tr>
<td>Daily Skills Check/Lesson Quiz Transparencies Course 3</td>
<td>978 0 133721 87 4</td>
</tr>
<tr>
<td>Daily Skills Check/Lesson Quiz Transparencies Algebra Readiness</td>
<td>978 0 133721 88 1</td>
</tr>
<tr>
<td>Test-Taking Strategies On Transparencies</td>
<td>978 0 133722 21 5</td>
</tr>
</tbody>
</table>

TEST PREP GUIDE

<table>
<thead>
<tr>
<th>Description</th>
<th>ISBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Prep Course 1</td>
<td>978 0 133722 18 5</td>
</tr>
<tr>
<td>Test Prep Course 2</td>
<td>978 0 133722 19 2</td>
</tr>
<tr>
<td>Test Prep Course 3</td>
<td>978 0 133722 20 8</td>
</tr>
</tbody>
</table>

PROGRESS MONITORING ASSESSMENT

<table>
<thead>
<tr>
<th>Description</th>
<th>ISBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progress Monitoring Assessments Course 1</td>
<td>978 0 133721 95 9</td>
</tr>
<tr>
<td>Progress Monitoring Assessments Course 2</td>
<td>978 0 133721 96 6</td>
</tr>
<tr>
<td>Progress Monitoring Assessments Course 3</td>
<td>978 0 133721 97 3</td>
</tr>
<tr>
<td>Progress Monitoring Assessments Algebra Readiness</td>
<td>978 0 133721 98 0</td>
</tr>
</tbody>
</table>

ADDITIONAL RESOURCES

<table>
<thead>
<tr>
<th>Description</th>
<th>ISBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multilingual Handbook</td>
<td>978 0 133721 93 5</td>
</tr>
<tr>
<td>Skills Review and Practice Blackline Masters</td>
<td>978 0 133722 07 9</td>
</tr>
</tbody>
</table>

EXAMVIEW®

<table>
<thead>
<tr>
<th>Description</th>
<th>ISBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>ExamView® 6.1 Assessment Suite CD-ROM for all the series</td>
<td>978 0 133721 92 8</td>
</tr>
</tbody>
</table>

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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.
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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
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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 97 6
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 73 0

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decimals and powers of ten 978 0 663649 40 2
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operations with fractions: multiplication and division 978 0 663650 05 7
percents 978 0 663649 46 4
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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

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expressions 978 0 663650 18 7
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place value and computational strategies to 100 1 to 3
place value and computational strategies to 1,000 2 to 4+
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fractions and numbers 3 to 5+
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Contains: the above units in both Spanish print and digital 6-year formats except for units marked with †.

978 0 133299 05 2

**STUDENT DIGITAL BUNDLES**

**MathXL for School Skills Practice**
(per student, per year)

978 0 133280 04 3

**Grade 8, 6-year Student Bundle**
Contains access to the following titles except for units marked with †:

- Thinking with Mathematical Models: Linear and Inverse Variation
- Looking for Pythagoras: The Pythagorean Theorem
- Growing, Growing, Growing: Exponential Relationships
- Butterflies, Pinwheels, and Wallpaper: Symmetry and Transformations
- Say It With Symbols: Making Sense of Symbols
- It’s In The System: Systems of Linear Equations and Inequalities
- † Function Junctions: The Families of Functions

978 0 133300 60 4

**Grade 8 Algebra 1, 6-year Student Bundle**
Contains access to the following titles:

- ACT-We-book: Thinking with Mathematical Models: Linear and Inverse Variation
- ACT-We-book: Looking for Pythagoras: The Pythagorean Theorem
- ACT-We-book: Growing, Growing, Growing: Exponential Relationships
- † ACT-We-book: Frogs, Flies, and Painted Cubes: Quadratic Functions
- ACT-We-book: Butterflies, Pinwheels, and Wallpaper: Symmetry and Transformations
- ACT-We-book: Say It With Symbols: Making Sense of Symbols
- ACT-We-book: It’s In The System: Systems of Linear Equations and Inequalities
- † ACT-We-book: Function Junctions the Families of Functions

978 0 133277 41 8

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

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enVisionMATH from Pre-K to Grade 5 and Pearson High School Mathematics Core are written by the same authors as digits. Visit www.pearsonglobalschools.com.

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

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Levels are UK National Curriculum levels and for guidance only.
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.
### 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.

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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 |

**ACTIVELEACH**

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 | 978 447970 34 7 |
| KS3 Maths ActiveTeach Presentation Theta 1 | 978 447970 32 3 |
| KS3 Maths ActiveTeach Presentation Delta 1 | 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 48 4 |
| KS3 Maths Progress Teacher Guide Theta 2 | 978 447970 46 0 |
| KS3 Maths Progress Teacher Guide Delta 2 | 978 447970 44 6 |

### 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 |

**ACTIVELEACH**

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 | 978 447970 40 8 |
| KS3 Maths ActiveTeach Presentation Theta 3 | 978 447970 38 5 |
| KS3 Maths ActiveTeach Presentation Delta 3 | 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.

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

Sample pages from Level Up Maths: Pupil Book Level 5–7
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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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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
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 at least 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.
All About Mathematics: Learning through Examples

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.

Each chapter comes with:
- notes on important concepts
- mathematical formulae
- numerous worked examples
- ample practice exercises.

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.

---

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:
- notes on important concepts
- mathematical formulae
- numerous worked examples
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<thead>
<tr>
<th>Title</th>
<th>ISBN</th>
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</thead>
<tbody>
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<td>Learning Through Examples Secondary 1 Express</td>
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</tr>
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<td>NEW Learning Through Examples Secondary 2 Express</td>
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<td>978 9 810637 51 4</td>
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<td>978 9 810634 81 0</td>
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<tr>
<td>Learning Through Examples Maths S3E (2E)</td>
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<tr>
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<td>978 9 810621 98 8</td>
</tr>
<tr>
<td>Learning Through Examples Maths S4E (2E)</td>
<td>978 9 810621 99 5</td>
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<tr>
<td>Learning Through Examples Maths S4 N(A)</td>
<td>978 9 810622 00 8</td>
</tr>
<tr>
<td>Learning Through Examples ‘O’ Level Additional Maths Vol 1</td>
<td>978 9 810622 01 5</td>
</tr>
<tr>
<td>Learning Through Examples ‘O’ Level Additional Maths Vol 2</td>
<td>978 9 810622 02 2</td>
</tr>
<tr>
<td>Learning Through Examples Additional Maths N Level Vol 1</td>
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<td>978 9 810626 09 9</td>
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Common Core ©2014

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.
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.

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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.


Custom, Flexible Solutions for EVERY Classroom

- Comprehensive on-level program
- Complete digital program
- Foundations series
Ages 14-16 • UK Years 10-11 • US Grades 9-11

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
- Classroom Management Resources
- Answers and Solutions CD-ROM
- 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
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)

<table>
<thead>
<tr>
<th>Algebra 1</th>
<th>Geometry</th>
<th>Algebra 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Foundations for Algebra</td>
<td>1 Tools of Geometry</td>
<td>1 Expressions, Equations, and Inequalities</td>
</tr>
<tr>
<td>2 Solving Equations</td>
<td>2 Reasoning and Proof</td>
<td>2 Functions, Equations, and Graphs</td>
</tr>
<tr>
<td>3 Solving Inequalities</td>
<td>3 Parallel and Perpendicular Lines</td>
<td>3 Linear Systems</td>
</tr>
<tr>
<td>4 An Introduction to Functions</td>
<td>4 Congruent Triangles</td>
<td>4 Quadratic Functions and Equations</td>
</tr>
<tr>
<td>5 Linear Functions</td>
<td>5 Relationships Within Triangles</td>
<td>5 Polynomials and Polynomial Functions</td>
</tr>
<tr>
<td>6 Systems of Equations and Inequalities</td>
<td>6 Polygons and Quadrilaterals</td>
<td>6 Radical Functions and Rational Exponents</td>
</tr>
<tr>
<td>7 Exponents and Exponential Functions</td>
<td>7 Similarity</td>
<td>7 Exponential and Logarithmic Functions</td>
</tr>
<tr>
<td>8 Polynomials and Factoring</td>
<td>8 Right Triangles and Trigonometry</td>
<td>8 Rational Functions</td>
</tr>
<tr>
<td>9 Quadratic Functions and Equations</td>
<td>9 Transformations</td>
<td>9 Sequences and Series</td>
</tr>
<tr>
<td>10 Radical Expressions and Equations</td>
<td>10 Area</td>
<td>10 Quadratic Relations and Conic Sections</td>
</tr>
<tr>
<td>11 Rational Expressions and Functions</td>
<td>11 Surface Area and Volume</td>
<td>11 Probability and Statistics</td>
</tr>
<tr>
<td>12 Data Analysis and Probability</td>
<td>12 Circles</td>
<td>12 Matrices</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13 Periodic Functions and Trigonometry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14 Trigonometric Identities and Equations</td>
</tr>
</tbody>
</table>
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An earlier edition is available - see pages 46-47.

<table>
<thead>
<tr>
<th>ALGEBRA 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Edition + Digital Courseware</strong></td>
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</tr>
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<td></td>
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<td>Student</td>
<td>978 0 133185 67 6</td>
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<tr>
<td>Teacher's Guide</td>
<td>978 0 133185 62 1</td>
</tr>
<tr>
<td><strong>TEACHING RESOURCES</strong></td>
<td></td>
</tr>
<tr>
<td>Teacher's Edition</td>
<td>978 0 133281 19 4</td>
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<td>Teacher Resources DVD</td>
<td>978 0 133185 61 8</td>
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<td>ExamView Test Assessment Suite CD-ROM (Algebra 1, Algebra 2, Geometry)</td>
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<tr>
<td><strong>SPANISH RESOURCES</strong></td>
<td></td>
</tr>
<tr>
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</tr>
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<td>Student</td>
<td>978 0 133201 64 2</td>
</tr>
<tr>
<td>Teacher's Guide</td>
<td>978 0 133201 61 1</td>
</tr>
<tr>
<td><strong>STUDENT COMPANION</strong></td>
<td></td>
</tr>
<tr>
<td>Student</td>
<td>978 0 133198 60 7</td>
</tr>
<tr>
<td>Teacher's Guide</td>
<td>978 0 133198 57 7</td>
</tr>
<tr>
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<td></td>
</tr>
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<td></td>
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<td></td>
</tr>
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<tr>
<td>Teacher's Guide</td>
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<td></td>
</tr>
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<td>978 0 133185 96 6</td>
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<tr>
<td>Teacher's Guide</td>
<td>978 0 133188 47 9</td>
</tr>
<tr>
<td><strong>COMMON CORE STANDARDS PRACTICE AND REVIEW</strong></td>
<td></td>
</tr>
<tr>
<td>Student</td>
<td>978 0 133185 98 0</td>
</tr>
<tr>
<td>Teacher's Guide</td>
<td>978 0 133185 97 3</td>
</tr>
<tr>
<td><strong>TEACHING RESOURCES</strong></td>
<td></td>
</tr>
<tr>
<td>Teacher's Edition</td>
<td>978 0 133281 23 1</td>
</tr>
<tr>
<td>Teacher Resource DVD</td>
<td>978 0 133185 99 7</td>
</tr>
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<table>
<thead>
<tr>
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<th></th>
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</thead>
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<td>978 0 133281 35 4</td>
</tr>
<tr>
<td><strong>STAND ALONE DIGITAL COURSEWARE</strong></td>
<td></td>
</tr>
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<td>978 0 133281 31 6</td>
</tr>
<tr>
<td>6-year license</td>
<td>978 0 133281 32 3</td>
</tr>
<tr>
<td>6-year digital access + Student Companion</td>
<td>978 0 133281 52 1</td>
</tr>
<tr>
<td><strong>STUDENT COMPANION</strong></td>
<td></td>
</tr>
<tr>
<td>Student</td>
<td>978 0 133186 12 3</td>
</tr>
<tr>
<td>Teacher's Guide</td>
<td>978 0 133186 13 0</td>
</tr>
<tr>
<td><strong>PRACTICE AND PROBLEM SOLVING WORKBOOK</strong></td>
<td></td>
</tr>
<tr>
<td>Student</td>
<td>978 0 133186 14 7</td>
</tr>
<tr>
<td>Teacher's Guide</td>
<td>978 0 133188 44 8</td>
</tr>
<tr>
<td><strong>COMMON CORE STANDARDS PRACTICE AND REVIEW</strong></td>
<td></td>
</tr>
<tr>
<td>Student</td>
<td>978 0 133186 16 1</td>
</tr>
<tr>
<td>Teacher's Guide</td>
<td>978 0 133186 15 4</td>
</tr>
<tr>
<td><strong>TEACHING RESOURCES</strong></td>
<td></td>
</tr>
<tr>
<td>Teacher's Edition</td>
<td>978 0 133281 26 2</td>
</tr>
<tr>
<td>Teacher Resource DVD</td>
<td>978 0 133186 17 8</td>
</tr>
<tr>
<td>Teacher Online Access Pack</td>
<td>978 0 133288 17 9</td>
</tr>
<tr>
<td>Common Core Overview Implementation Guide</td>
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</tbody>
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A powerful online homework, tutorial, and assessment program

MathXL for School is the essential online addition to any core curriculum that provides personalized practice and instruction for middle grades and high school students of all levels. It gives teachers time-saving tools and allows them to quickly create, edit, and assign homework, tests, and quizzes.

- Ties directly to more than 300 Pearson math and statistics textbooks, from arithmetic to calculus.
- Enhances any math course with its flexible content, no matter what curriculum you are using.
- Personalizes student instruction and study plans based on their assessment performance.
- Aligned to Common Core standards.

Students receive immediate feedback as they work, and have access to interactive learning aids in MathXL for School.

<table>
<thead>
<tr>
<th>Product</th>
<th>ISBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>MathXL for School Teacher Access Card</td>
<td>978 0 133003 80 7</td>
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Language Central for Math ©2011

Academic vocabulary support for English Language Learners

Language Central for Math provides academic language support for English Language Learners (ELL). This removes a significant barrier for ELL math students, allowing them to focus instead on the concepts being taught in math class. This flexible program supplements your existing core math program and is easily implemented as part of your ESL or math classroom. The annotated Teacher’s Edition enables all teachers to be effective at teaching the academic language of math to ESL or struggling students.

- Teaches ELLs the language needed to succeed in math.
- Supplements any core math curriculum or program.
- Reading, writing, speaking, and listening activities allow students to practice and apply academic vocabulary.

Student Book

Vocabulary in Context

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

\[ A = 4 \times 7 = 28 \text{ square units} \]

**Perimeter**
The distance around a figure
Symbol: P

\[ P = 10 \text{ in.} + 10 \text{ in.} + 10 \text{ in.} = 30 \text{ in.} \]

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 foot**

**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.

1. Another name for a corner of a surface is the...
2. 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...

STUDENT MATERIALS

<table>
<thead>
<tr>
<th>Grade</th>
<th>ISBN</th>
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<tbody>
<tr>
<td>Grade 3</td>
<td>978 0 133172 88 1</td>
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TEACHER’S MATERIALS

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STUDENT EDITION + TEACHER’S EDITION

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<td>Classroom Set Grade 7</td>
<td>978 0 133178 14 2</td>
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Provides point-of-use “Coach” supports throughout the Teachers Edition, as well as online professional development videos, to ensure a successful implementation.

Cost of Tomatoes

<table>
<thead>
<tr>
<th>Weight (pounds)</th>
<th>Cost (dollars)</th>
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<tr>
<td>1</td>
<td>0.80</td>
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<tr>
<td>2</td>
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<tr>
<td>3</td>
<td>2.40</td>
</tr>
<tr>
<td>4</td>
<td>3.20</td>
</tr>
</tbody>
</table>

Unit price of tomatoes is ______________________.
Unit ratio of cost : weight is ________________.

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3 Simplify these algebraic expressions.

(a) 16 + 13
(b) 21 + 16
(c) 132 + 41
(d) 81 + 72
(e) 12x + 13x
(f) 5x + 3x
(g) 3y + 7y
(h) 6y + 2y

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. 3a and 6b are like terms. 3a and 5a are like terms. 3a and 5a are not like terms.

You can simplify algebraic expressions by collecting like terms together.

3a + 6b + 5a = 3a + 1a + 1b
= 8a + 6b

For example:

6x + 5x + 2y + 3x + 2x + 2x = 6x + 5x + 2y + 3x + 2x

Basic rules of algebra

1 Simplify these expressions by collecting like terms.

(a) 3x + 2x + 4x + 6x = 7x + 6x
(b) 2x + 3x + 5x + 2x = 10x + 2x
(c) 4x + 4y + 12x + 6y = 16x + 10y
(d) 3y + 3x + 2y + 3x = 5y + 5x

2 Simplify these expressions by collecting like terms.

(a) 3x + 2x + 4x + 6x = 7x + 6x
(b) 2x + 3x + 5x + 2x = 10x + 2x
(c) 4x + 4y + 12x + 6y = 16x + 10y
(d) 3y + 3x + 2y + 3x = 5y + 5x
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- 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.

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.

- Why would she not use a census of the house prices?
- Describe a sampling unit.

Tim is asked to take a random sample of 25 students from the registration list of his school. He attempts to do so by:

- Selecting 10 random numbers each less than 50. Start at the top left-hand corner and work across from left to right.
- Selecting 10 random numbers each less than 50. Start at the top left-hand corner and work down in pairs, and from left to right.
- Rolling the dice again. If it shows a 3, he selects the 4th name on the list (i.e. if the dice shows a 4, he selects the student shown by the number on the dice). He repeats this until he has 25 names.

A market research company wants some information about the use of parking bays in a supermarket car park. They question 20 people in the European Union.

- Why would she not use a census rather than a sample.
- Where would she use a census rather than a sample.
- Two advantages of using a sample rather than a census.
- One disadvantage of using a sample rather than a census.

A factory manager requires a sample of 20 people from a list of 1000 people. He generates 20 random numbers between 1 and 1000 and numbers and uses those numbered people.

- Select 10 random numbers each less than 10. Start at the top left-hand corner and look at the second digit. Then move to the right and select another random number.

A market research company is going to do a telephone poll. The people who answer will form the sample.

- 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 1000 sample numbers.

Exercise 1B

1. A new curry restaurant is going to open at Edward College. The 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.

2. An airline agent wants to get information about house prices in the city where she works.

- What is the population he/she will use?
- Why would he/she not use a sample of the house price?

3. A college decides to investigate the number of hours that students study per week.

- Describe the sampling frame the college will use.
- Advantages of using a census rather than a sample.

4. 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 450 males and 640 females. Year group 3 has 460 males and 540 females. It decides to use a stratified sample.

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- Where would she use a census rather than a sample.
- Two advantages of using a sample rather than a census.
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8. 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 450 males and 640 females. Year group 3 has 460 males and 540 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.

9. 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.
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<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
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</tr>
<tr>
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<td>978 0 435519 11 7</td>
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<tr>
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<td>978 0 435519 09 4</td>
</tr>
<tr>
<td>Core Mathematics 4 (C4)</td>
<td>978 0 435519 07 0</td>
</tr>
<tr>
<td>Statistics 1 (S1)</td>
<td>978 0 435519 12 4</td>
</tr>
<tr>
<td>Statistics 2 (S2)</td>
<td>978 0 435519 13 1</td>
</tr>
<tr>
<td>Statistics 3 (S3)</td>
<td>978 0 435519 14 8</td>
</tr>
<tr>
<td>Statistics 4 (S4)</td>
<td>978 0 435519 15 5</td>
</tr>
<tr>
<td>Mechanics 1 (M1)</td>
<td>978 0 435519 16 2</td>
</tr>
<tr>
<td>Mechanics 2 (M2)</td>
<td>978 0 435519 17 9</td>
</tr>
<tr>
<td>Mechanics 3 (M3)</td>
<td>978 0 435519 18 6</td>
</tr>
<tr>
<td>Mechanics 4 (M4)</td>
<td>978 0 435519 24 7</td>
</tr>
<tr>
<td>Mechanics 5 (M5)</td>
<td>978 0 435519 25 4</td>
</tr>
<tr>
<td>Decision Mathematics 1 (D1)</td>
<td>978 1 846908 93 4</td>
</tr>
<tr>
<td>Decision Mathematics 2 (D2)</td>
<td>978 0 435519 20 9</td>
</tr>
<tr>
<td>Further Pure Mathematics 1 (FP1)</td>
<td>978 0 435519 23 0</td>
</tr>
<tr>
<td>Further Pure Mathematics 2 (FP2)</td>
<td>978 0 435519 21 6</td>
</tr>
<tr>
<td>Further Pure Mathematics 3 (FP3)</td>
<td>978 0 435519 22 3</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Course</th>
<th>ISBN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revise for Core Mathematics 1 (C1)</td>
<td>978 0 435519 26 1</td>
</tr>
<tr>
<td>Revise for Core Mathematics 2 (C2)</td>
<td>978 0 435519 27 8</td>
</tr>
<tr>
<td>Revise for Core Mathematics 3 (C3)</td>
<td>978 0 435519 28 5</td>
</tr>
<tr>
<td>Revise for Core Mathematics 4 (C4)</td>
<td>978 0 435519 29 2</td>
</tr>
<tr>
<td>Revise for Statistics 1 (S1)</td>
<td>978 0 435519 30 8</td>
</tr>
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Julian Kitching has taught IB Biology since 1988 and Theory of Knowledge since 1990. He helped to set up the SOS Hermann Gemeiner International College in Ghana – a school mainly funded by the charitable organization SOS Kinderdorf and the first IB diploma programme school in West Africa. Julian has been a member of the senior management team there since 1999. In the 1990s, Julian assisted in the creation of the current overall structure of the ToK programme. He has been an examiner since 1996 and assumed the role of Chief Assessor in September 2010. Since 1995, he has led or co-led twenty workshops.

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Contents

Chapter 1: Introduction
Chapter 2: Ways of Knowing
Chapter 3: Areas of Knowledge
Chapter 4: Natural Sciences
Chapter 5: Human Sciences
Chapter 6: Mathematics
Chapter 7: History
Chapter 8: Arts
Chapter 9: Ethics
Chapter 10: Religious Knowledge Systems
Chapter 11: Indigenous Knowledge Systems
Chapter 12: Shared and Personal Knowledge Systems
Chapter 13: Assessment
Bibliography
Glossary
Index

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<table>
<thead>
<tr>
<th>Age</th>
<th>IB</th>
<th>United States</th>
<th>United Kingdom</th>
<th>Australia</th>
</tr>
</thead>
<tbody>
<tr>
<td>11-12</td>
<td>MYP</td>
<td>Grade 6</td>
<td>Year 7</td>
<td>Key Stage 3</td>
</tr>
<tr>
<td>12-13</td>
<td></td>
<td>Grade 7</td>
<td>Year 8</td>
<td>Key Stage 4 / GCSE</td>
</tr>
<tr>
<td>13-14</td>
<td></td>
<td>Grade 8</td>
<td>Year 9</td>
<td>Key Stage 5 / International GCSE</td>
</tr>
<tr>
<td>14-15</td>
<td></td>
<td>Grade 9</td>
<td>Year 10</td>
<td>Grade 10</td>
</tr>
<tr>
<td>15-16</td>
<td></td>
<td>Grade 10</td>
<td>Year 11</td>
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<tr>
<td>16-17</td>
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<td>Grade 11</td>
<td>Year 12</td>
<td>Grade 12</td>
</tr>
<tr>
<td>17-18</td>
<td></td>
<td>Grade 12</td>
<td>Year 13</td>
<td>Grade 12</td>
</tr>
</tbody>
</table>

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