

# NUMERACY Catalogue 2003



Cambridge Maths Direct



Apex Maths

## Service to Schools

At Cambridge we aim to exceed your expectations

Our friendly and knowledgeable team of customer service assistants, sales consultants and information line specialists are on hand to provide the highest possible standard of service to help you make the right choice for your school. Whether you require product information, wish to place an order, or wish to take advantage of our demonstration or evaluation services, we can offer advice tailored to your school's needs.

## Choose the Right Resources

#### **Demonstration Service**

Our professional team of Sales Consultants will be happy to talk you through our resources, provide up-to-date information or sample material, and prepare an individualised quotation. This service is free of charge, entirely without obligation and our Sales Consultants do not receive commission. Our Consultants will be happy to visit your school at a time convenient to you and your colleagues. To make an appointment:

- > Contact your local Sales Consultant direct (see page 25)
- Return the reply-paid presentation request cards
- Call our Education Information Line on 01223 325013

#### **Approval Service**

Selected individual titles are available for approval. The easiest way to order approval copies of our key numeracy resources is to return the reply-paid cards. Alternatively use the order form, where titles available on approval are indicated by a tick box. After 30 days, approval copies may be purchased or returned in good condition at your school's expense. Approval copies cannot be sent to home addresses.

If you wish to see resources that are not available on approval (for example Interactive Pictures) please contact your local Sales Consultant.

### **Education Information Line**

### 01223 325013

For general enquiries or information on any of our numeracy resources please call our Education Information Line. Our experienced staff will be pleased to help you. Lines are open Monday -Friday 08.30–17.30. A voicemail service can take your message outside office hours.

#### Website

#### www.cambridge.org/education/primary

Make sure you visit our Primary website for all the essential information on our top-selling literacy and numeracy resources. Why not take advantage of the free, downloadable teacher notes and classroom support materials?

#### **Bookshop Showroom**

All of our Primary resources can be browsed and bought at the Cambridge University Press Bookshop, 1 Trinity Street, Cambridge, CB2 1SZ. Phone: 01223 333333. Email: bookshop@cambridge.org

### For product information



Call our Education Information Line on 01223 325013 or visit www.cambridge.org/education/primary

#### To place an order

Call Customer Services on 01223 325588 or contact your local Sales Consultant (see page 25)

#### To evaluate resources



Return the **reply-paid cards** or contact your local Sales Consultant (see page 25)

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## Discover Cambridge



Extension *for all* through problem solving.

Published Spring for Years 1–6



## Assessment



A ready-made assess and review package for Reception and Key Stage 1.

## Available now



## HIGHLIGHTS 2

## Numeracy in 2003

## Cambridge Maths Direct



Our complete maths programme.

Now fully published from Reception to Year 6





## Cambridge Maths Assessment CD-ROMs



Simple-to-use tools for testing and assessing maths progress.

Available now



See page 23 >>>

3 HIGHLIGHTS



YEARS 2, 5 & 6 PUBLISHED FEBRUARY

YEARS 1, 3 & 4 PUBLISHED MAY



Paul Harrison and Ann Montague-Smith

## Apex Maths

## Extension for all through problem solving

With the setting of new targets for 2004, boosting pupils' attainment is more important than ever. *Apex* offers a new kind of extension resource. Through a series of stimulating problems, it stretches the attainment of every child, allowing them to explore solutions in line with their ability. The series provides 30 carefully differentiated problems for each year, which can fit naturally into your maths planning.

## The Author Team



Ann has over 30 years' experience as both teacher and headteacher in rural Worcestershire and is Principal Lecturer in Primary Education at University College, Worcester. When not busy writing teaching materials, Ann can be found flying kites!

Specialising in primary maths, Paul has taught and been headteacher in schools across the UK. An experienced educational author (*Nelson Maths, Maths 2000*), Paul has also lectured on PGCE and BEd courses and written for the TES.

## Apex Maths:

- ▶ Is for all pupils aged 5–11
- Extends and enriches through problem solving
- Stretches to Level 5 and beyond
- Is designed to develop thinking skills
- Provides 3 levels of differentiation
- Allows teachers to plan so that all pupils can be included
- Covers all problem-solving objectives
- Includes background mathematical support

## Components

## Years 2–6/P3–7

Teacher's Book (includes copymasters) and Pupil's Textbook for each year

## Year 1/P2

Teacher's Book only (includes copymasters)

APEX 4





EXTENSION FOR ALL THROUGH PROBLEM SOLVING



5



EXTENSION FOR ALL THROUGH PROBLEM SOLVING



## Pupil's Textbooks

3 How old is Granny? Jan and Chris visited their Granny. Would you like to It was her birthday. know how old I am today? They took her some Differentiation at 3 levels flowers and a card. Clues and hints encourage children to think the problem through for themselves Red text indicates the She gave them five practical apparatus needed clues. These were: Blue text should be copied I am younger than 60 but 0 older than 50 into exercise books Can you work out what If you add the digits of my the tens digit is? Look carefully at clue number • A glossary of key words age you get an even number. one aids understanding Both the digits in my age are odd. O The two digits are different. G If you add the digits in my Now, try clue number 2. age you get a 2-digit number Which pairs of digits which has next-door digits. would fit? Can you work it out? Dotty polygons How old do you think Jan and Chris are? 9 Make up some clues for their ages for your partner to work out. You need centimetre square dotty paper. ź١ a Draw polygons that have only 1 dot inside them. Page from Year 2 Pupil's Textbook For each polygon: • find the area; count the number of dots on the perimeter. Write the results by the shape. b Can you describe a relationship between the number of dots on the perimeter of each polygon and the area? c Investigate polygons with 2 internal dots in the same way. Oraw polygons with 12 perimeter dots that have 0, 1, 2, 3, 4, 5 dots inside them. Is there a maximum number of dots that a polygon with 12 perimeter dots can have inside it? Investigate. **b** Can you find a relationship between the area of a polygon with 12 perimeter dots and the number of dots inside it? Can you write a formula?

Page from Year 6 Pupil's Textbook

APEX 6

<u>\_</u>14



![](_page_9_Picture_0.jpeg)

NOW PUBLISHED FROM RECEPTION TO YEAR 6

## Cambridge Maths Direct

![](_page_9_Picture_3.jpeg)

## The respected name. The right solution

- A comprehensive maths programme for children aged 4–11
- Offers full support in planning, teaching and assessing the daily maths lesson
- > Crammed with inventive activities, all clearly differentiated
- > Provides a lively and rewarding maths experience for all

Taster Packs **35%** discount

Try a CMD Taster Pack in school today – offering you an affordable way to try out the materials. Packs are available from any strand for any year and comprise a Teacher's Book, Copymasters/ Activity Sheets and Pupil's Textbooks (where available).

- Offer limited to one pack per school
- Firm order only
- Full details from your local Sales Consultant

   see page 25, or complete and return the reply-paid card (centre pages)

## Three strands for success

CMD offers you flexibility and support. Use it as a complete scheme or focus on just one of three strands. Problem-solving activities are provided within all three strands.

![](_page_9_Picture_16.jpeg)

Strand-based resources to help you target key areas of maths

## Our survey said ...

![](_page_10_Picture_1.jpeg)

## from our recent customer survey...

•I find suggestions for

• Easy-to-use during lessons – no bulky resources to take home for planning ?

#### **•**Its implementation is a piece of cake.

Children enjoy the lessons and are well motivated ?

the mental starter. homework and plenary sessions very useful. The differentiation is a big help too ?

Teachers appreciate CMD! Here are some typical responses

<sup>4</sup>I trust CMD to deliver the appropriate curriculum at the appropriate level. I can go straight to it ?

Well written whole-class input – great ideas for use of language, modelling concepts, reinforcing ideas and also some useful plenary activities ?

### NUMBERS

CALCULATIONS

MEASURES. SHAPE, SPACE, HANDLING DATA

CMD

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![](_page_10_Figure_12.jpeg)

excellent differentiation ?

![](_page_11_Picture_0.jpeg)

## **Component Chart**

	YEAR	RECEPTION/P1	YEAR 1/P2		YEAR 2/	P3	
	MEASURES, SHAPE, SPACE AND HANDLING DATA INCLUDING SOLVING PROBLEMS	k of 10) f7.00 (pack of 10) f6.95 itting Maths Review Review Lesson Plans	f25.95 f25.95 f29.95 f29.95 f29.95 f29.95 f29.95 f29.95	w Lesson Plans £6.95	facher's Handbook Activity Sheets	f9.50 W Lesson Plans f6.95 f4.50	
3 STRANDS FOR SUCCESS	CALCULATIONS INCLUDING SOLVING PROBLEMS	Image: Second	16 pics) Interactive Pictures and User Guide	E7.00 (pack of 10) Assess and Revie	for the second	(16 pics)Interactive Pictures and User Guide£ 7.00 (pack of 10)Assess and Revie\$ Textbook(Spring/Summer terms only)	
	NUMBERS AND THE NUMBER SYSTEM INCLUDING SOLVING PROBLEMS	Autumn/Spring       Summer       Autumn/Spring       Summer         L27.95       f24.95       f29.95       Activity Shee	Eacher's Handbook Activity Sheets	Maths Review Workbook	f25.95 Teacher's Handbook	f69.95 Maths Review Workbook Pupil's	
	ЯАЗҮ	RECEPTION/P1	YEAR 1/P2		АЯ 2/Р3	λE	

**CMD** 10

![](_page_12_Picture_0.jpeg)

## AT EACH OF YEARS 3,4,5 AND 6/P4-7

![](_page_12_Figure_2.jpeg)

![](_page_13_Picture_0.jpeg)

You want a resource that caters for the different abilities and starting points of Reception children. CMD offers you this flexibility.

## Reception

## RECEPTION

![](_page_13_Picture_4.jpeg)

Our Reception materials are unique in offering different resources for Autumn/ Spring and Summer terms. This reflects the differing needs of children at this level and the requirements of the *Early Learning Goals*. The Reception material:

- Covers all three strands
- Gradually introduces pupils to the concept of a daily maths lesson
- Emphasises talking about and exploring maths through practical work and structured play
- Encourages home school links through family activities

## Teacher's Handbooks

## Autumn/Spring Term

- Allows flexibility for the Reception teacher in the early part of the year through a pattern of starter lessons and follow-up lessons to dip into.
- Introduces direct teaching, differentiated activities and plenary
- Includes ideas for oral and mental, family and related play activities

## Summer Term

Organised in daily lesson plan format to ensure a smooth transition to Year 1.

> Starter lesson Reception – Autumn/Spring

![](_page_14_Picture_7.jpeg)

![](_page_14_Picture_8.jpeg)

## Handwriting Workbook

Children can practise the correct way to form numerals with this useful workbook.

![](_page_14_Picture_11.jpeg)

![](_page_14_Picture_12.jpeg)

## RECEPTION

13 CMD

![](_page_15_Picture_0.jpeg)

## WHOLE CLASS

![](_page_15_Picture_2.jpeg)

#### • The Interactive Pictures provide an ideal opportunity for discussion, pupil involvement and visual stimulus for teaching and learning ?

Lynda Keith, Senior Lecturer in Primary Education, University of Strathclyde

CMD

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## Whole-Class Teaching

## **Interactive Pictures**

- A1 laminated pictures packed with exciting maths ideas
- Encapsulated in durable plastic for a resource that will last and last
- Lots of opportunities to develop aspects of maths within the three strands
- Mathematical language and thinking developed
- Excellent for use with any maths programme

![](_page_15_Picture_12.jpeg)

3 of 16

## User Guides

![](_page_16_Picture_1.jpeg)

- Accompanying teacher's notes available for all years
- Focus on oral and mental work and whole-class direct teaching
- Suggestions on how to work effectively with support staff
- Lots of ideas for creating stimulating maths display boards

![](_page_16_Picture_6.jpeg)

![](_page_16_Picture_7.jpeg)

brid

WHOLE CLASS

![](_page_16_Picture_8.jpeg)

![](_page_17_Picture_0.jpeg)

## Teacher's Handbooks

![](_page_17_Picture_2.jpeg)

![](_page_17_Figure_3.jpeg)

#### Pupil activities – these are differentiated into four stages - Support, Core A, Core B and Extension

3. What can you do if the numbers are larger than 30. e.g. 50 × 8? Discuss suggrations, Look for × 10' or 'double, double double 50'. 1.2.1

4. Ask valuateers to pose questions to the class based on IP 5. They must be able to give the answer and explain the strategy they used.

**Pupil activities** 

#### about 25 minutes

#### CORE

A Independent TB page 56 Children are helped to use multiplication facts they know to find others, and solve problems. B Teacher-led TB page 57

A full range of multiplication facts is used and applied to solving problems.

SUPPORT \* Teacher-led TB page 56 Children practise facts to ×5 and apply commutativity and doubling. Encourage them to use apparatus or a 0-100 number line if they need to.

EXTENSION C Independent TB page 57 Children solve missing number problems and explain strategies. They develop their own problems for a partner to solve.

### Optional adult input to groups

Core A: Encourage children to apply the strategies suggested and check by an equivalent culculation.

Extension: Help children who need it to explain their strategies.

![](_page_18_Picture_13.jpeg)

![](_page_18_Picture_14.jpeg)

#### Plenary

#### about 10 minutes

![](_page_18_Picture_17.jpeg)

- 1. Ask children who did \* to talk about what strategies they used to find facts they didn't know
- 2. Discuss and solve some of the problems from
- 3. Adapt CM 30 and play 'Four in a row' in 2 beams, e.g. use  $\times 7, \times 9$  and appropriate multiples in the grid.

#### Homework suggestion

Ask children to choose and learn 6 multiplication facts they do not know

133

Daily lesson plan Year 4 Teacher's Handbook- Calculations

Plenary - ideas for short-term assessment

![](_page_18_Picture_26.jpeg)

### PLANNING

### **TEACHING**

Helping schools plan their coverage of the Framework is a key part of Cambridge Maths Direct. Support for short, medium and long term planning is provided through the daily lesson plans in the Teacher's Handbook and the Framework matching charts and mixed year linking grids in the free Planning Packs. CMD is flexible enough to provide a close match, whatever plan or scheme of work you're following.

#### Homework suggestion -

the work does not depend upon this being done. It is there to use if you wish

CMD 17

![](_page_19_Picture_0.jpeg)

### PLANNING

### LEARNING

Four is a row

42

## Pupil's Textbooks

![](_page_19_Picture_4.jpeg)

By providing a rich variety of activities with full colour illustrations, CMD fuels pupils' interest and enthusiasm for maths. Group, paired and individual activities are clearly differentiated. Coloured bands show which activities are teacher-led (red) and which are independent (green).

Y2-6

![](_page_19_Figure_6.jpeg)

## Activity Sheets/Copymasters

Additional practice and reinforcement of key maths skills, including:

- Lesson support sheets for whole-class, core, support or extension work
- Opportunities for assessment
- General resources number lines, hundred squares

![](_page_19_Picture_12.jpeg)

48

54

64

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Copymaster Year 4 Calculations

![](_page_20_Picture_0.jpeg)

## Assessment

## Daily Assessment

Daily assessment is covered in the plenaries, which provide activities and guestions to help identify children's misconceptions.

## Medium-Term Assessment

![](_page_20_Picture_5.jpeg)

Page from Maths Review Worbook Reception

## Record Keeping

A checklist for record keeping is included in the free **Planning Packs** for each year.

Cambridge Mathematics Direct												NA	ME									
Class Record 3	Τ					Τ																
Key Objectives																	!			!		
Read, write and order whole numbers to at least 1000: know which each digit represents.													'									
Courr: on or back in kins or hundreds from any 2- or 3-digit number			-					'		1			-	 i	1	1				i	t	
Pacognise wilt fractions such as 1/2, 1/3, 1/4, 1/5, 1/10, and use them to find fractions of shapes and numbers.																-			-			
Know by heart all addition and subtraction facts for each number to 20.																					T	
Add and subtract mentally s 'near multiple of 10" to or from a 2-364 number.												$\square$	-								t	1
Know by Fear facts for the 2, 5 and 10 multiplication bibles.						i			Ì					 Ť		1					t	
Understand division and reception diet dure on is the inverse of multiplication.																1			1		T	
Use ut to of time and know the 'v altorships between them (second, minute, hour, dey, week, month, yeer).											i							i			T	
Understand and use £p notation.	+			Ī	1	-	1	+				÷		1		1					+	
Choose and use appropriate operations flactuating multiplication and division) to aske ward problems. explaining methods and reasoning					+																Ī	+
ldentity right engles.			ļ			i.				÷						i.						
dentify lines of symmetry in simple shapes and acceptive shapes with no lines of symmetry.							-							-				1			T	
Solve a given problem by organising and interproting numerical case in a ripole case, tables and graphs.		1		1					-													1
Cambridge Mathematics Direct Case Record 3																						

![](_page_20_Picture_10.jpeg)

![](_page_20_Picture_11.jpeg)

## ASSESSMENT

![](_page_20_Picture_13.jpeg)

#### Assess and Review Lesson Plans and Maths **Review Workbooks**

Reception and Key Stage 1 Available now

## Your Next Step...

![](_page_20_Picture_17.jpeg)

The best way to evaluate Cambridge Maths Direct is to contact your Sales Consultant who can:

- provide information and sample material
- talk you through the resources
- give a free, no obligation demonstration to members of staff

Contact details page 25

CMD

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![](_page_21_Figure_0.jpeg)

## ACTIVITY AND RESOURCE BOOKS

#### Feedback from Cambridge/BEAM Summer Workshops

• thought-provoking 
•

<sup>•</sup>a great opportunity to learn and share ideas with others <sup>•</sup>

<sup>6</sup>down-to-earth presentations and useful activities <sup>9</sup>

## Your Next Step...

![](_page_21_Picture_8.jpeg)

RESOURCES

20

## **Activity and Resource Books**

![](_page_21_Picture_10.jpeg)

![](_page_21_Picture_11.jpeg)

For teaching accessories to support *Cambridge Maths Direct*, look no further than BEAM. BEAM provides all the equipment you need to deliver a daily maths lesson with *Cambridge Maths Direct*, including Grids, Number Cards, Number Lines and Dice.

To order BEAM's resources for *Cambridge Maths Direct*, contact:

BEAM Education, Maze Workshops, 72a Southgate Road, London N1 3JT

Enquiries: 020 7684 3323 Orders: 020 7684 3330 www.beam.co.uk

Cambridge University Press in association with BEAM

## Everybody's talking about ...

## **Talking Points in Mathematics**

![](_page_21_Picture_19.jpeg)

![](_page_21_Picture_20.jpeg)

### Anita Straker

Could an elephant walk through the door of the classroom? How long is the swimming pool in pencil lengths?

The lively discussion topics in *Talking Points* get children thinking and talking about maths. Each topic provides a stimulus for class discussion, developing children's use of mathematical vocabulary, imagery and mental strategies. Each talking point is described in full, with suggestions for questions, vocabulary, class organisation and how to follow up.

0 521 44758 5 | 124 pp. | Paperback | £13.00

Look out for details of future ambridge/BEAM workshops

## Numbers: Facts, Figures and Fiction

#### **Richard Phillips**

Ever wondered how 7-UP got its name, or what you would measure in oktas? Discover the answers in *Numbers: Facts, Figures and Fiction*. Full of mathematical and cultural facts, tantalising problems and anecdotes, *Numbers* provides masses of ideas for teaching, project work, or displays, and makes an intriguing library resource.

0 521 46481 1 | 96 pp. Paperback | £11.95 Available Spring 2003

![](_page_22_Picture_4.jpeg)

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	* \74	75	76	71	

## ACTIVITY AND RESOURCE BOOKS

![](_page_22_Picture_7.jpeg)

## Playing with Numbers

Michael Cornelius Puzzles for the daily maths lesson

Inspiring games, puzzles and activities to enrich your daily maths lesson. Learning objectives for each game are linked to the Framework. Answers included.

Photocopiable | Wiro bound | 0 521 59896 6 72 pp. | £31.95

## Puzzles, Mazes and Numbers

Charles Snape and Heather Scott

A collection of problems, puzzles and investigations exploring the history of mathematics, mazes and the development of numbers.

0 521 46500 1 | 128 pp. | Full colour | Hardback £15.50

![](_page_22_Picture_16.jpeg)

![](_page_22_Figure_17.jpeg)

## 21 **RESOURCES**

![](_page_23_Figure_0.jpeg)

ACTIVITY AND RESOURCE BOOKS

![](_page_23_Picture_2.jpeg)

![](_page_23_Picture_3.jpeg)

## Seven Dizzy Dragons

A lively collection of new and traditional rhymes designed to help children memorise key maths concepts. There are action songs, chants and mantras for learning tables, as well as rhymes to practise number bonds and days of the week.

0 521 49794 9 | 32 pp. Paperback | £9.50 
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Antonio de antonio Orelas por paragon

A full list of other maths stories and rhymes can be found at www.cambridge.org/education/primary/cmd/teachersresourcebox

![](_page_23_Picture_14.jpeg)

![](_page_23_Picture_15.jpeg)

## Cambridge Number Rhymes

- Support for the Early Learning Goals
- Help pupils to recognise numerals
- A fun way to introduce mathematical vocabulary

Cambridge Big Book of Number Rhymes/Cassette Pack 0 521 00221 4 | 16 pp. | Paperback | Illustrated | £27.30

Children's Books – Packs of Six Each book: 8 pp. | Paperback | Illustrated | £10.75

## Your Next Step...

#### → ORDERING

![](_page_23_Picture_24.jpeg)

![](_page_23_Picture_25.jpeg)

## Mathwords

#### Language Studies Centre

A primary maths picture dictionary with index. Words and phrases are placed in context to enhance pupils' understanding.

0 521 45527 8 | 64 pp. Hardback | £12.75

![](_page_23_Picture_30.jpeg)

**RESOURCES** 22

## **E-Learning**

![](_page_24_Picture_1.jpeg)

## Cambridge Maths Assessment CD-ROMs

![](_page_24_Picture_3.jpeg)

- Pupils' ability tested in all areas of mathematics
- Pupil performance records can be saved and printed out
- Written and spoken instructions support understanding
- Easy to use just point and click
- Pupil-centred ideal for self-assessment

Calculations

## Ages 5-11

By providing graded maths tests, in a fun interactive format, our CD-ROMs offer an invaluable tool for mathematical assessment that children will love using.

![](_page_24_Picture_13.jpeg)

Measures, Shape, Space and Handling Data

![](_page_24_Picture_15.jpeg)

#### PC ONLY

1 - Ages 5-7 Single user 0 521 89208 2 | £59 Extra user 0 521 89209 0 | £10

2 – Ages 7–9 Single user 0 521 89212 0 | £59 Extra user 0 521 89211 2 | £10

3 - Ages 9-11 Single user 0 521 89213 9 | £59 Extra user 0 521 89214 7 | £10

A licence is required to use this product on a network of computers. Please contact Education Marketing on 01223 325914

Numbers

## Home Maths

#### Anita Straker

- Hundreds of imaginative homework ideas by the bestselling author of Mental Maths
- Focus on numeracy and developing mental maths
- Suitable for pupils aged 6–11

#### - Copymasters

48 pp. | Wirobound | Illustrated | £22.95 - £28.50 Also available as Pupil's Books (see order form for details)

#### - Teacher's Book

0 521 65947 7 | 112 pp. | £22.95 Available while stocks last

#### - Answer Book

0 521 64921 8 | 48 pp. | Paperback | £5.60

![](_page_24_Picture_35.jpeg)

## Now you can access Anita Straker's activities online at www.bgfl.org/cambridgehomemaths

This service has been developed by the Birmingham Grid for Learning and Netmedia Education in conjunction with Cambridge University Press.

## **Mental Maths**

#### Anita Straker

- The leading mental maths resource in UK schools
- Pupils' mental skills developed in a variety of inventive ways
- Suitable for pupils aged 5–11

#### - Pupil's Books

- 32 pp. | Paperback | Illustrated | £3.50
- Teacher's Books
- 72 pp. | Wiro bound | Illustrated | £20.50

#### - Answer Book

0 521 58929 0 | 32 pp. | Paperback | £6.00

![](_page_24_Picture_49.jpeg)

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## www.cambridge.org/education/primary

![](_page_25_Picture_13.jpeg)

## **Cambridge Sales Consultants**

Our professional team of Sales Consultants will be happy to talk you through our resources, provide up-to-date information or sample material, and prepare an individualised quotation. This service is free of charge, entirely without obligation and our Sales Consultants do not receive commission. Our Consultants will be happy to visit your school at a time convenient to you and your colleagues.

To make an appointment contact your local Sales Consultant direct or phone our Education Information Line on 01223 32501<u>3</u>.

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