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SAVE 20%
More details enclosed

Busy Ant Maths

2nd EDITION

A flexible, whole-school mathematics programme
that supports teaching for mastery



“One of the best whole-school programmes available for helping
children develop mathematical mastery and fluency”

Teach Primary magazine

Busy Ant Maths is a flexible, whole-school mathematics programme that assists teachers in teaching for mastery and ensures conceptual understanding and mathematical fluency.

Since 2014, Busy Ant Maths has been used by over 4,000 UK schools to support and enhance their maths mastery provision.

Busy Ant Maths supports schools to:

- Provide clear progression from Foundation to Year 6
- Summarise the most important knowledge and understanding for maths mastery
- Make connections between core concepts across year groups
- Address areas in the curriculum identified as a priority: Number and place value, Addition and subtraction, Multiplication and division (including number facts), Fractions, Geometry

“

I have definitely seen an increase in independence and confidence with the children, and because they are completing a lot of practical work and having to think a lot more for themselves, the mathematical vocabulary they are using has increased. From the support activities to the Stretch and Challenge book, I can always find something to meet the learning needs of my class in ability and confidence.

Year 3 Teacher, Richmond Avenue Primary School

”



Meet the editor

Peter Clarke has been a mathematics coordinator and deputy headteacher in primary schools in Australia and the UK. He has also worked as a mathematics advisor and has developed many resources for primary mathematics. He lectures on initial teacher training and postgraduate courses and runs INSET at schools and conferences.

WHAT'S NEW FOR THE 2ND EDITION?



Following new recommendations outlined by the Department for Education and the National Centre of Excellence in the Teaching of Mathematics, **Busy Ant Maths** has been revised and updated into a 2nd edition, fully equipped to support even more schools to teach for mastery.

Busy Ant Maths 2nd edition still provides complete coverage of the 2014 National Curriculum for Mathematics but has been updated to be even more effective as a Teaching for Mastery programme.

Busy Ant Maths 2nd edition incorporates the key pedagogical principles and curriculum priorities set down in the following documents:

- DfE / NCETM: Mathematics guidance: Key Stages 1 and 2 Non-statutory guidance for the national curriculum in England, June 2020 (referred to as 'ready-to-progress criteria')
- DfE / NCETM: Primary National Curriculum Guidance 2020: Supporting materials for the ready-to-progress criteria

“

The lessons have opportunities to be differentiated and the units are flexible and give teachers the opportunities to be creative. I am extremely impressed with the online planning tool and am really looking forward to implementing this scheme of work.

Senior Leader, Chigwell Primary School

”

You can mix and match resources from the 1st and 2nd edition of **Busy Ant Maths** to suit the needs of your school.



UPDATED

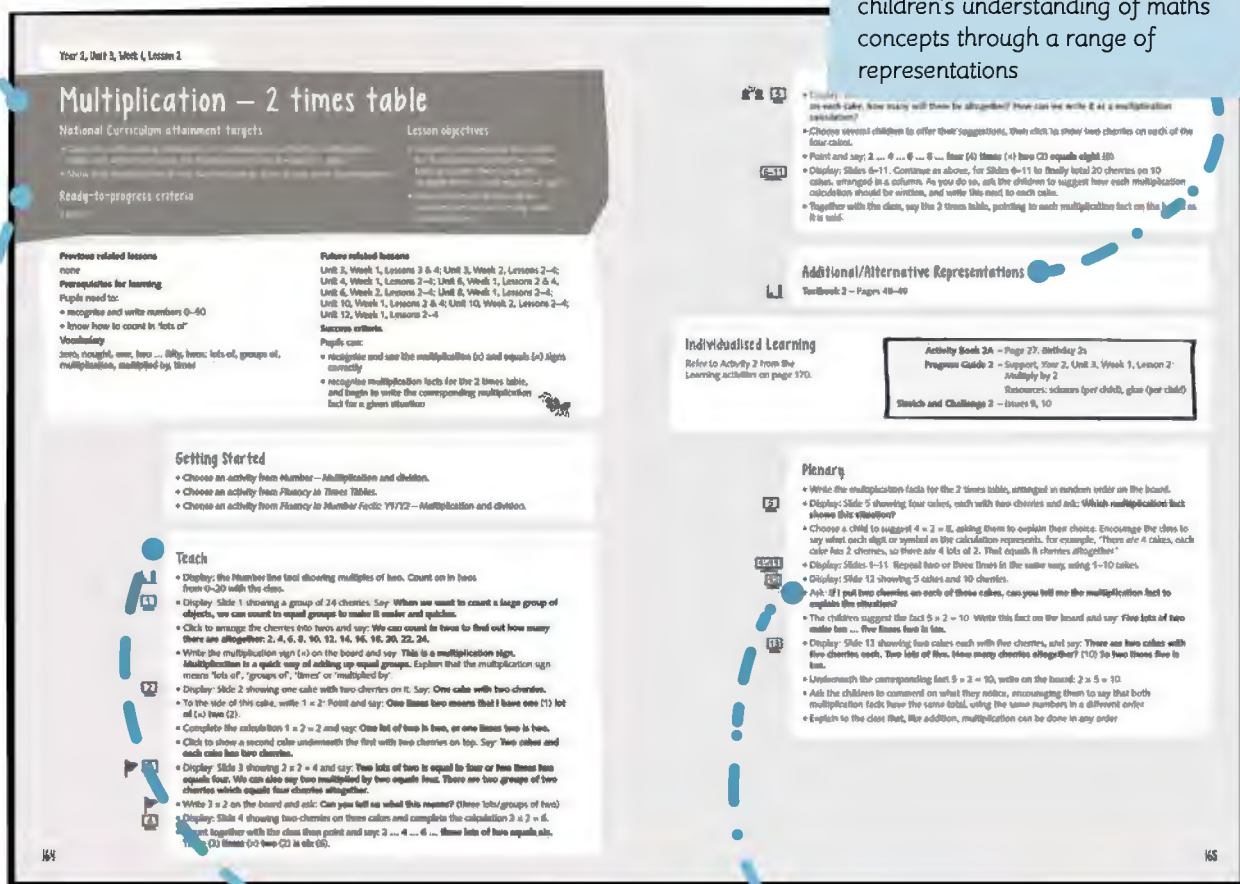
TEACHER'S GUIDES



Busy Ant Maths Teacher's Guides offer a complete solution for planning and delivering inspiring maths lessons, helping promote learning and raising attainment for all children.

Ensure key concepts are reviewed and practised regularly with the Busy Ant Maths progressive step-by-step programme

Encourage the Concrete, Pictorial, Abstract approach (CPA) to deepen children's understanding of maths concepts through a range of representations



The 2nd edition incorporates the ready-to-progress criteria into Unit Overviews and Lesson Plans to highlight the most important knowledge and understanding in the national curriculum

All teaching is whole-class, keeping all children together

Keep track of your pupils' understanding throughout the lesson with helpful progress check questions



ACTIVITY BOOKS FOR KS1

UPDATED



Build and develop the skills needed to be successful in KS1 maths with engaging write-in activity books. Each page features lots of hands-on, highly visual activities and representations with an accessible level of text to give pupils confidence in learning maths.

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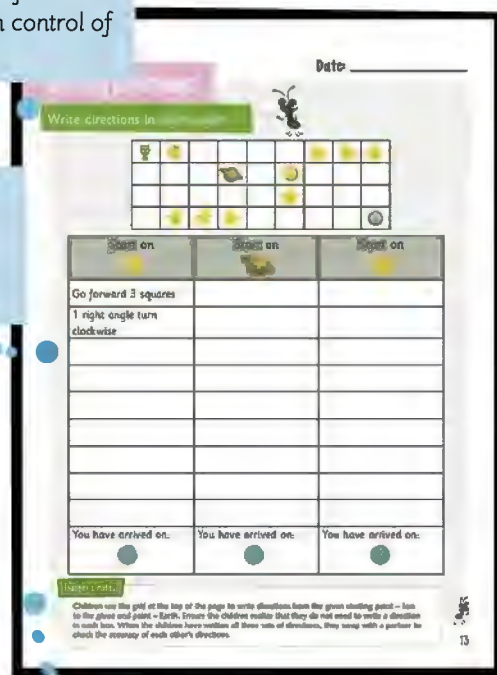
Activity Book 1B

Activity Book 2C



Clear, pupil-facing objectives are shown at the top of each page so the child is in control of their own learning

Includes space to record answers, providing structure to each exercise



Teacher's notes help to keep lessons on track and ensure that all children have consolidated their knowledge

Sample from Activity Book 2C

PUPIL BOOKS FOR KS2

UPDATED



Ensure rapid progression for every child in KS2 with three levels of differentiated challenge built-in to each lesson as well as extra consolidation, extension activities and varied number representations.

Pupils of all abilities work on the same mathematics domain

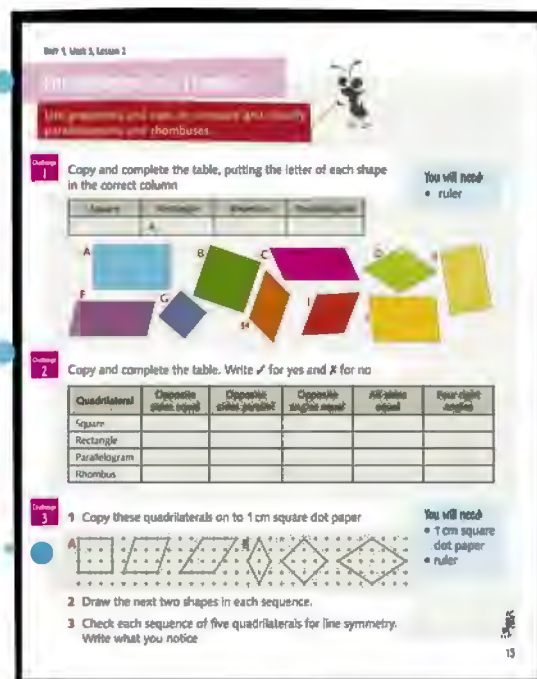
Three levels of differentiated challenge ensure rapid progression

Examples, models and images clearly illustrate mathematical concepts

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Pupil Book 4C

Pupil Book 6A



Sample from Pupil Book 4C

PUPIL TEXTBOOKS

NEW



Pupil Textbooks are designed to be used during the 'Teach' phase of a typical **Busy Ant Maths** lesson, or to help pupils during the 'Individualised Learning' phase of a lesson to answer the questions on the accompanying Activity/Pupil Book page.

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Busy Ant Maths
2nd EDITION
Textbook 2



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Busy Ant Maths
2nd EDITION
Textbook 6

- Build key vocabulary to encourage development of precise and accurate language
- Highlight prerequisite learning and future application of learning
- Provide more mathematical representations that follow the Concrete, Pictorial, Abstract approach
- Focus on key number knowledge and concepts



Blue arrows show references to previous pages in the book that contain conceptual prerequisites that pupils need to know and understand before learning about the ideas on the current page

Key words and phrases are highlighted in colour and presented in context to encourage the development of precise and accurate language in mathematics

Represent numbers to 100

The place of each digit in a number tells us its value. Separating, or partitioning, numbers to 100 into tens and ones makes them easier to calculate.

We can use different objects, pictures and models to **partition** 2-digit numbers into **tens** and **ones** to show the **place value** of each digit.

2-digit number
digit 65 digit

There are 6 **tens** and 5 **ones**
 $65 = 6 \text{ tens} + 5 \text{ ones}$

To find the **value** of each digit, we look at its position in the place value chart.

To find the **whole number**, we **add** the values together.

$60 + 5 = 65$

This chart shows the number 65.
We can say:
There are 6 **tens** and 5 **ones** in 65.
We can also say: 65 is equal to 60 add 5.

Pages 4-7

Say Point to a number in the **10s** row, then a number in the **1s** row.

Say your number in different ways.

10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

What numbers have been partitioned to show their place value?

60 + 2

11 to 100

Choose a number from 11 to 100.

How many different ways can you partition your number into **tens** and **ones**?

What objects could you use? **Draw** What pictures or models might you draw?

Which part shows the **tens**?

Which part shows the **ones**?

How many **tens** and **ones** are there?

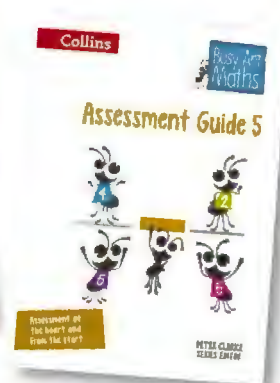
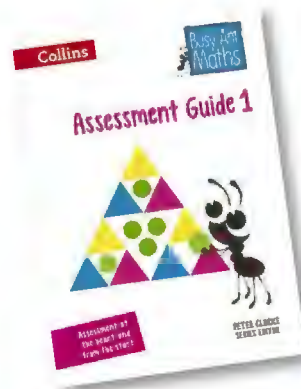
How would you write your number as an **addition number sentence**?

Pages 8-9, 11-12, 20-21

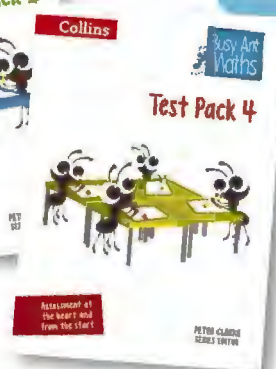
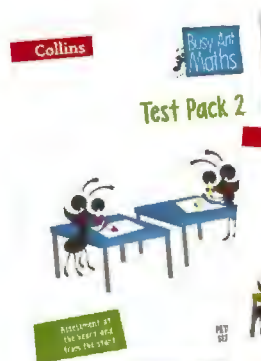
ASSESSMENT GUIDES



Identify pupils' strengths and weaknesses with a simple and robust way of assessing and capturing progress and communicating it effectively to pupils, teachers and carers.



These photocopiable packs help you to assess whether an individual child has achieved mastery of each programme of study. Each pack contains arithmetic and reasoning papers based on the end of year expectations, instructions for administering papers, detailed marking guidance, and marking schemes for each paper.



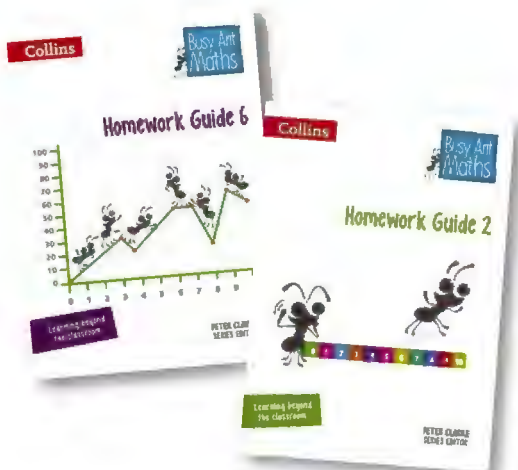
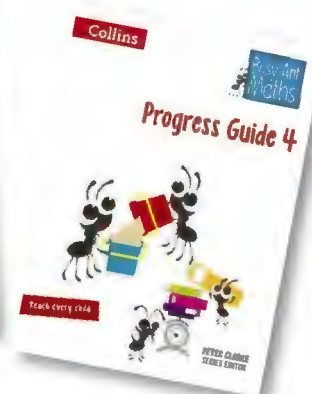
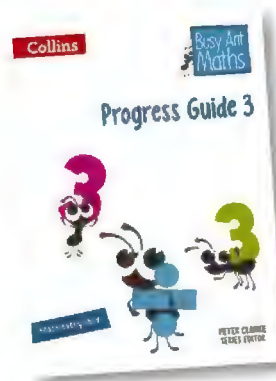
TEST PACKS



PROGRESS GUIDES



Reach every child, raise pupil attainment and ensure rapid progression with support and extension activities.



HOMEWORK GUIDES

Consolidate classroom learning with homework linked to the Busy Ant Maths lesson plans. These guides contain shared activities so carers can support children's home learning.



STRETCH AND CHALLENGE



Stretch and Challenge for Years 1-6 is included as part of the Busy Ant Maths digital subscription, or is available to buy separately as digital downloads

Broaden and deepen understanding for children who are exceeding age-related expectations in Years 1-6. Activities promote independent thinking and develop problem-solving skills, and accompanying teacher's notes provide guidance and support.



PROBLEM SOLVING AND REASONING PUPIL BOOKS

Enhance strategic thinking, develop transferable skills and support application of maths in real-world contexts with books packed with different types of problem solving and reasoning challenges.

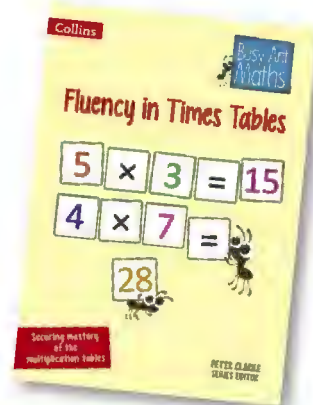


FLUENCY IN TIMES TABLES



This whole-school downloadable resource gives teachers tools to help children memorise, recognise patterns, and secure mastery of the multiplication tables.

Make every minute count using the quick-fire tasks for lesson starters, times tables sessions or in small windows before or after break times.



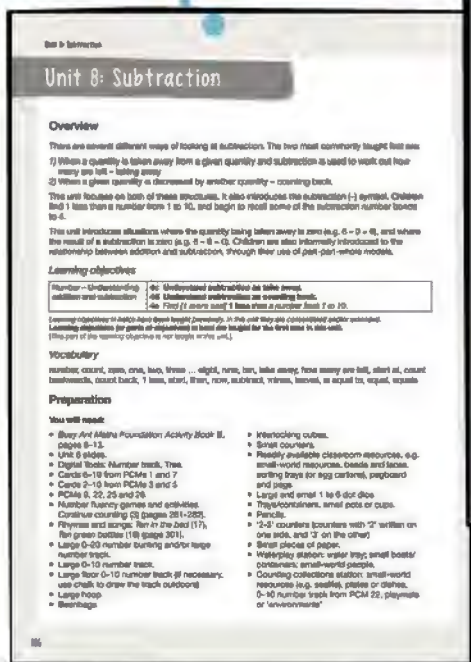
FOUNDATION

NEW



Packed with comprehensive teaching resources and fun activities designed to raise the attainment of every child before Year 1, **Busy Ant Maths Foundation** aims to support the teaching of maths alongside the development of early literacy skills.

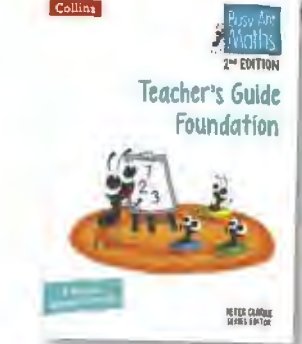
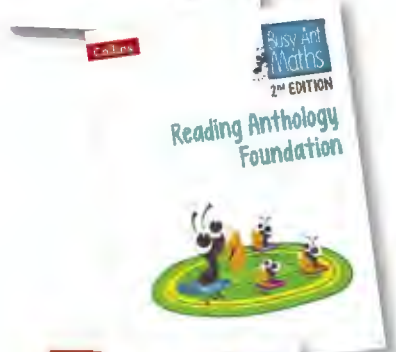
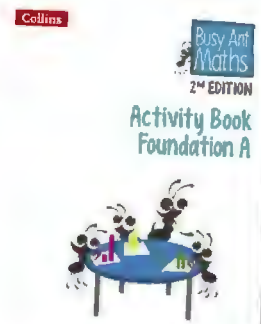
The Teacher's Guide clearly sets out everything you need to deliver each unit confidently and comprehensively



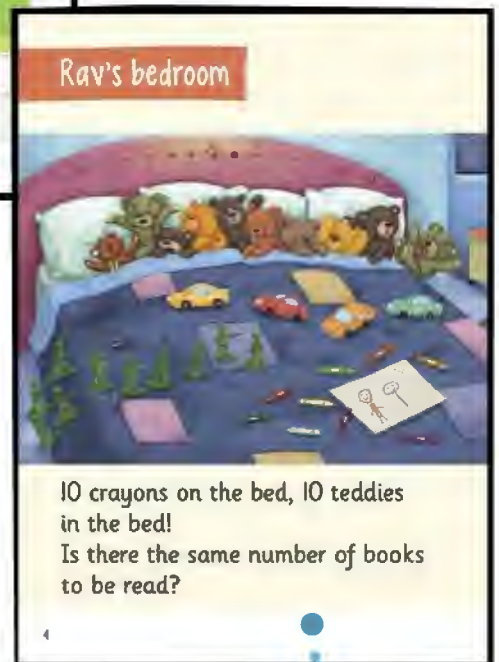
Sample from Foundation Teacher's Guide



Help children to consolidate lesson objectives with fun write-in Activity Books



Sample from Foundation Activity Book B



Sample from Foundation Reading Anthology

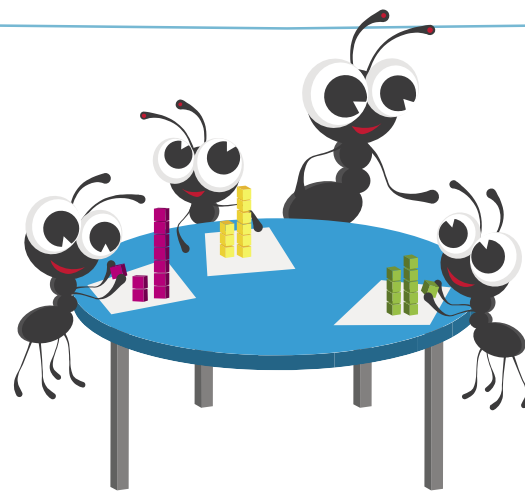
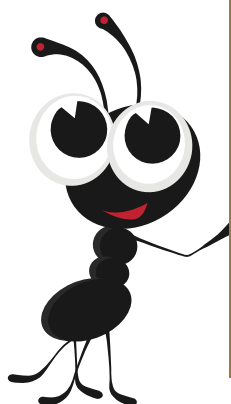
Foundation resources include three Activity Books, a Teacher's Guide, and a Reading Anthology

Encourage the development of early literacy skills alongside maths teaching with the engaging and brightly illustrated Reading Anthology



BUSY ANT MATHS DIGITAL SUBSCRIPTIONS

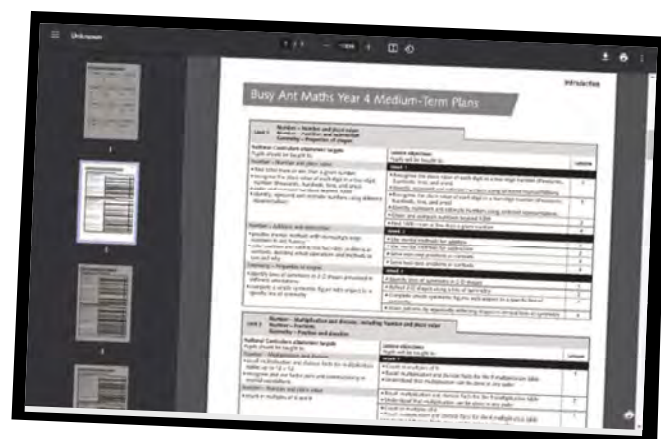
UPDATED



Busy Ant Maths digital subscriptions include front-of-class and interactive teaching resources to support the planning and teaching of maths lessons.

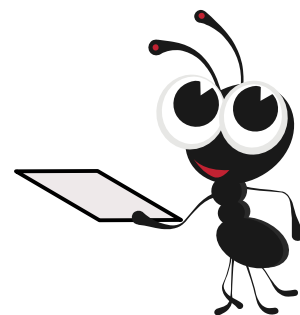
Planning

- Downloadable versions of resources from the Teacher's Guide, including Getting Started activities, lesson plans, resource sheets and activities
- National Curriculum (2014) progression map, tracking attainment targets from Year 1 to Year 6
- Editable short-term weekly planning grids that link to the different teaching and learning components used in *Busy Ant Maths*
- Detailed and practical advice for planning the curriculum for mixed-age classes



Teaching and pupil consolidation

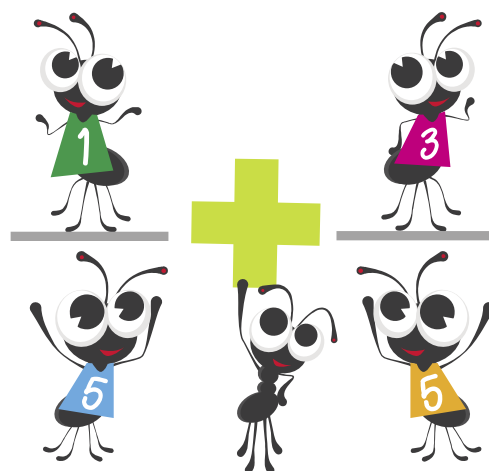
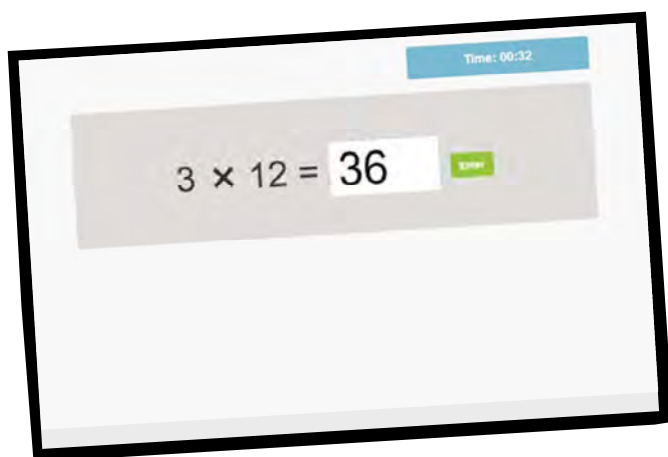
- Over 40 flexible interactive whiteboard teaching tools for whole-class demonstration
- PowerPoint presentations displaying core representations, questions and contextual images for almost every lesson, designed to be displayed to the whole class on the whiteboard during the 'Teach' and/or 'Plenary' phase of the teaching and learning sequence
- Interactive paired and individual pupil games for consolidation



Assessment

- Downloadable assessment record-keeping grids for diagnostic, formative and summative assessments
- Times Table Test Simulator for children to practise and consolidate multiplication and division facts, and to assist teachers in checking children's level of mastery

	Student A	Student B	Student C	Student D	Student E
Unit 2 Week 1: Number - Addition and subtraction	Yellow	Green	Yellow	Green	Green
Unit 2 Week 2: Number - Addition and subtraction	Yellow	Green	Yellow	Green	Green



Home/school links

- Resources for parents and carers, including editable newsletters that teachers can adapt and distribute at the start of each of the 12 three-week units

“

Busy Ant Maths gives you very clear objectives and success criteria but the way that you deliver it using your kinaesthetic activity or perhaps a visual on the board can really be adapted for the children within your class.

Year 3 Maths Coordinator, South Farnham School

”

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hub

Busy Ant Maths digital subscriptions are accessible on the Collins Hub, providing unlimited access to resources for both pupils and teachers on whiteboards, computers, tablets and smartphones, inside or outside the classroom.



NEXT STEPS



Order using the enclosed form

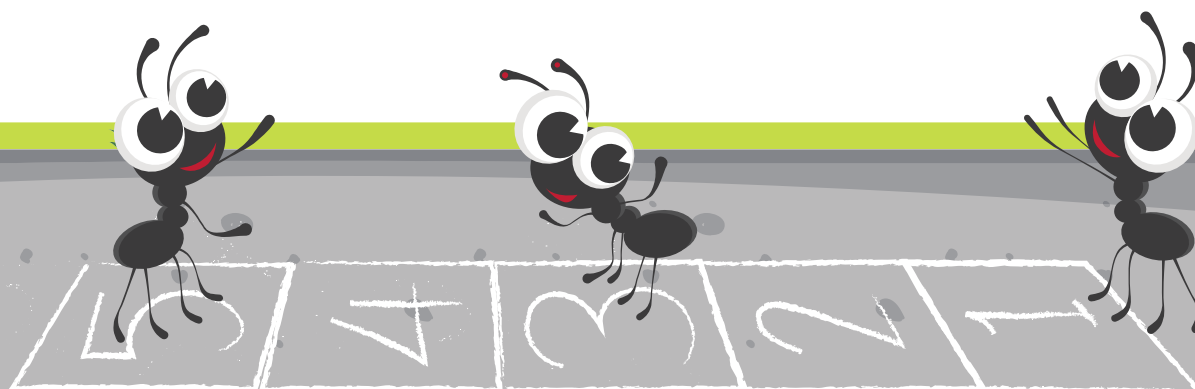
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Your local sales consultant would be delighted to discuss a [Busy Ant Maths](#) package that suits your school's needs and budget. You can find their contact details at collins.co.uk/findarep.

Order online

Receive 20% off your first online order when you sign up to our Primary e-newsletters at collins.co.uk/PrimaryNewsletter. T&Cs apply.





Our sales consultants and customer services teams would be delighted to talk to you about **Busy Ant Maths**. Phone or email us on the details below to arrange a demonstration, request free samples or have a bespoke quotation tailored to the needs of your school.

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978-0-00-864494-9	Teacher Guide Foundation	£145.00			978-0-00-861335-8	Pupil Book 3B	£8.50		
978-0-00-864496-3	Activity Book Foundation A	£4.50			978-0-00-861336-5	Pupil Book 3C	£8.50		
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