### Collins

'ONE OF THE BEST WHOLE-SCHOOL
PROGRAMMES AVAILABLE FOR HELPING
CHILDREN DEVELOP MATHEMATICAL
MASTERY AND FLUENCY.'
Teach Primary

### BUSY ANT MATHS SUPPORTS THE 2019 OFSTED FRAMEWORK

COLLINS.CO.UK/BUSYANTMATHS



CONFIDENCE FROM THE START





# HOW BUSY ANT MATHS CAN SUPPORT A MASTERY APPROACH IN YOUR SCHOOL

In October 2014 the National Centre for Excellence in the Teaching of Mathematics (NCETM) published 'Mastery approaches to mathematics and the new national curriculum'.

In this document they helpfully outlined 5 principles and features that characterise a mastery approach

Find out how these characteristics are embedded throughout the entire Busy Ant Maths scheme!

'ENGAGING... ACCESSIBLE...POWERFUL'
Teach Primary

### Busy Ant Maths

A philosophy of equal opportunity means that Busy Ant Maths has been designed and written with the assumption that pupils are taught the same mathematics domain (topic), and the same National Curriculum Attainment Target (objective).

See page 4 for the Activity and Pupil Books.

### NCETM's 'principles and features that characterise a mastery approach'

Teachers reinforce an expectation that all pupils are capable of achieving high standards in mathematics.

The large majority of pupils progress through the curriculum content at the same pace. Differentiation is achieved by emphasising deep knowledge and through individual support and intervention.

Although there is no differentiation in content taught, the questioning and scaffolding individual pupils receive does differ.

'Lower attainers' focus on developing deep understanding and secure fluency with facts and procedures, while 'higher attainers' are challenged through more demanding problems.

See page 9 for the Progress Guides and Stretch & Challenge.

## NCETM's 'principles and features that characterise a mastery approach'

Teaching is underpinned by methodical curriculum design and supported by carefully crafted lessons and resources to foster deep conceptual and procedural knowledge.

Practice and consolidation play a central role. Carefully designed variation within this builds fluency and understanding of underlying mathematical concepts in tandem.

Teachers use precise questioning in class to test conceptual and procedural knowledge, and assess pupils regularly to identify those requiring intervention so that all pupils keep up

Visit collins.co.uk/BusyAntMastery for more information.

#### Busy Ant Maths

An emphasis is given in Key Stage 1 and Lower Key Stage 2 to the knowledge and skills pupils need to achieve the level of mastery and fluency in number that is expected in the Programme of Study.

Using the online Planning Tool via Collins Connect, the Medium-term plans can be easily adapted to meet the specific needs of individual classrooms.

See page 5 for the Teacher's Guides and page 6 for Collins Connect

Practice and consolidation in every lesson consists of both written exercises and practical hands-on activities, and includes individual, paired and group tasks. As well as four specific detailed lesson plans, each week Busy Ant Maths provides a bank of four 'Learning activities' that teachers can offer pupils to further practise and consolidate their understanding.

See page 5 for the Teacher's Guides.

Progress Check Questions assist teachers in checking pupils' understanding of the lesson objective(s). The Assessment Guides and Test Packs give you the support to assess pupils' mastery of specific targets and the programme of study for each year group.

See page 8 for the Assessment Guides and Test Packs

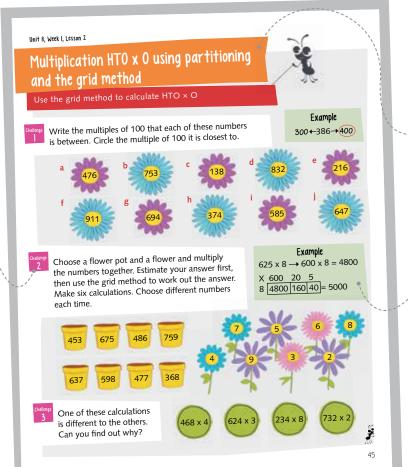
### ALL PUPILS CAN ACHIEVE HIGH STANDARDS IN MATHEMATICS

"Busy Ant Maths has helped my class to think more for themselves when they are working on problem solving. They are more successful in completing their main activity and their extension work."

Louise Cain, Year 3 Teacher, Richmond Avenue Primary School

#### ACTIVITY AND PUPIL BOOKS





Pupils of all abilities work on the same mathematics domain

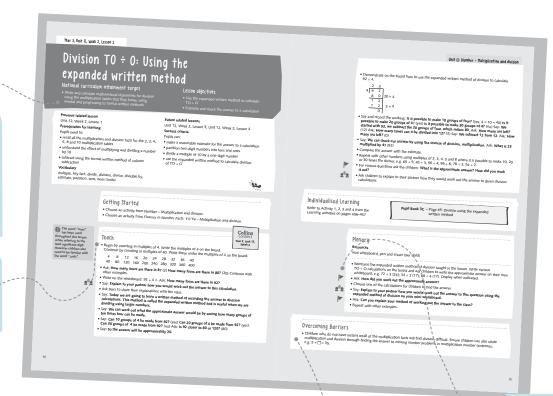
Examples, models and images clearly illustrate mathematical concepts

# TEACHING UNDERPINNED BY CAREFULLY CRAFTED LESSONS

### TEACHER'S GUIDES

Progressive, step-by-step programmes designed to ensure key concepts are reviewed and practised regularly.

All teaching is whole-class, keeping all children together



Teacher's Guide 4 Teacher's Guide 6

The overcoming barriers section will help you to ascertain where any misunderstandings may have occurred, and suggest ways to deal with any confusions the pupils have.

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



## MEET THE SPECIFIC NEEDS OF YOUR CLASSROOM

### Collins Connect

Collins Connect is an innovative online learning platform that you

can use as a front-of-class teaching tool.

COLLINS
CONNECT

Back Act Team Float

From the Connect State

From the Connect

Click to inpart title

Everything you need to teach a week of maths in each unit

The medium-term plans can be adapted using the online Planning Tool.

Flexible too slides allow represents appropriat

Flexible tools and teaching slides allow you to use the representations that are most appropriate for your pupils.

Supports assessment with an easy-to-use online Record-Keeping Tool. Simply drag-and-drop pupils using the traffic-light system.



Maths games can be played at different levels, timed or untimed, to develop mathematical fluency.



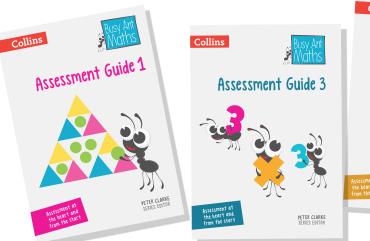


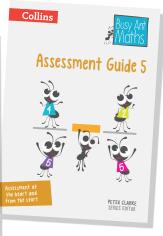
## REGULARLY ASSESS CONCEPTUAL AND PROCEDURAL KNOWLEDGE

### ASSESSMENT GUIDES

These provide diagnostic, formative and summative assessment to assess individual pupils' level of mastery and identify their strengths and weaknesses in a specific National Curriculum Attainment Target (NC AT):

- Provide guidance about what to do for those pupils who are achieving above or below expectations
- Inform future planning and teaching of individual pupils and the class as a whole







#### TEST PACKS

These photocopiable packs contain a practice test that will support you in making a decision as to whether or not an individual child has achieved mastery of the programme of study for each year group.

You can use the tests alongside the Busy Ant Maths Assessment Guides, or by themselves.

## INDIVIDUAL SUPPORT AND INTERVENTION

### PROGRESS GUIDES

These provide support and extension activities to raise pupil attainment and ensure rapid progression for children who need extra practice to gain mastery of lesson objectives.





#### STRETCH AND CHALLENGE

Challenge your more able pupils with resources for each year designed to broaden and deepen their mathematical understanding.

- Self-contained activity booklets (issues) promote independent thinking and develop children's problem-solving skills.
- Accompanying teacher's notes for each issue provide guidance, support and next steps.

### IDEAL PRACTISE FOR THE SATS REASONING PAPERS

#### PROBLEM SOLVING AND REASONING PUPIL BOOKS

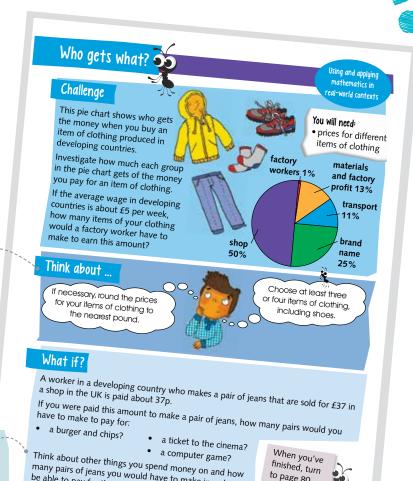
- Develop mathematical problem solving and thinking skills
- Reason and communicate mathematically
- Use and apply mathematics to solve real-world problems





Prompts support pupils in working through challenges.

> Extension or variation challenges to further develop reasoning skills



Sample page from Busy Ant Maths: Year 6

Problem Solving and Reasoning Pupil Book

many pairs of jeans you would have to make in order to

Build pupils' understanding after every challenge with a set of discussion questions.

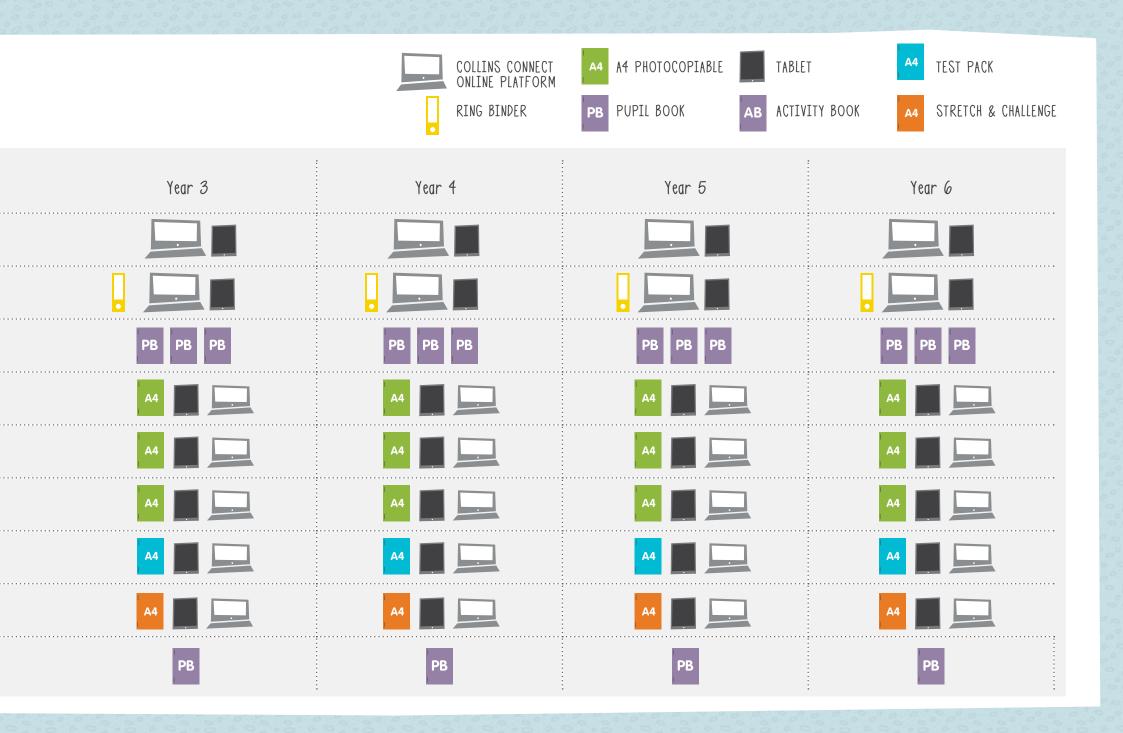
finished, turn

to page 80.

## HOW IS BUSY ANT MATHS STRUCTURED?

Busy Ant Maths is also available in Euro editions, to find out more go to collins.co.uk/BusyAntMaths

COMPONENT / YEAR LEVEL	Foundation	Year 1	Year 2	
COLLINS CONNECT ONLINE PLATFORM				
TEACHER'S GUIDE				
PUPIL BOOKS & ACTIVITY BOOKS	АВ	AB AB AB	AB AB AB	
ASSESSMENT GUIDE		A4	A4	
PROGRESS GUIDE		A4	A4	
HOMEWORK GUIDE	A4	A4	A4	
TEST PACK		A4	A4	
STRETCH & CHALLENGE		A4	A4	
PROBLEM SOLVING AND REASONING		РВ	РВ	



### Collins



#### HOW DO I FIND OUT MORE?

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Contact your local Busy Ant Maths Consultant

UK schools: collins.co.uk/findyourrep • 01484 668 148

International schools: collins.international@harpercollins.co.uk • +44 141 306 3484

Start a free 14-day trial on Collins Connect
Just speak to your local consultant to get started!

Place an order

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Post: Collins, FREEPOST RTKB-SGZT-ZYJL, Honley, HD9 6QZ Email: education@harpercollins.co.uk, quoting BAM2001

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Stretch and Challenge Connect Pack, Year 1 - Year 6	9780008196905	£450.00 + VAT	
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Foundation Activity Book	9780008124649	£3.25	
Foundation Homework Guide	9780008124632	£55.00	
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	Total	£	

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