Collins

### ARE YOU THINKING ABOUT MASTERY?

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

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Busy Ant

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### 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!

## 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.

#### 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.

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 www.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.

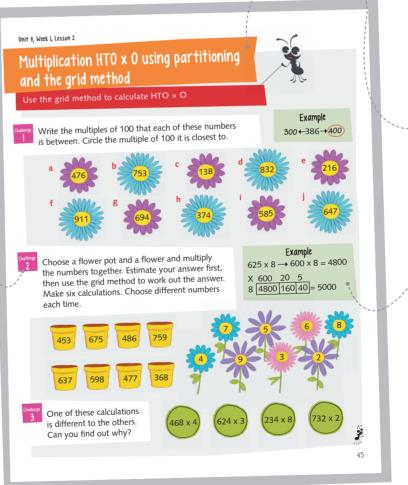
Progress Check Questions assist teachers in checking pupils' understanding of the lesson objective(s). The Assessment Guides and Test Packs give you the support to assess pupils' mastery of specific targets and the programme of study for each year group.

See page 8 for the Assessment Guides and Test Packs.

### ALL PUPILS CAN ACHIEVE HIGH STANDARDS IN MATHEMATICS

### ACTIVITY AND PUPIL BOOKS



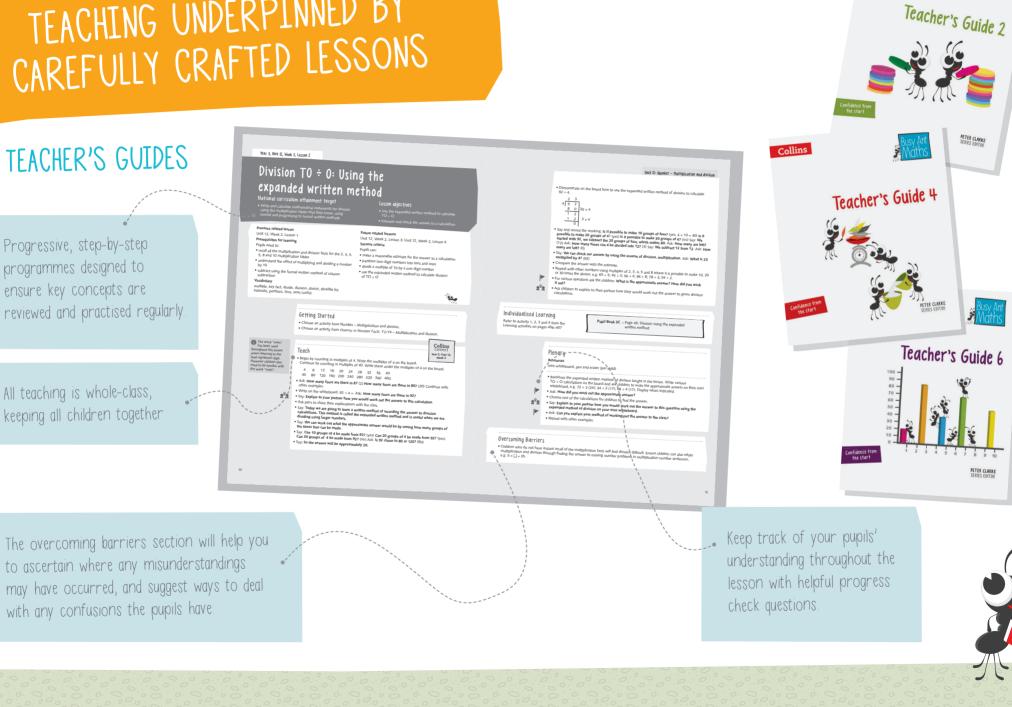


Pupils of all abilities ..... work on the same mathematics domain

> Examples, models and images clearly illustrate mathematical concepts

# TEACHING UNDERPINNED BY CAREFULLY CRAFTED LESSONS

### Progressive, step-by-step programmes designed to ensure key concepts are reviewed and practised regularly. Getting Started All teaching is whole-class,



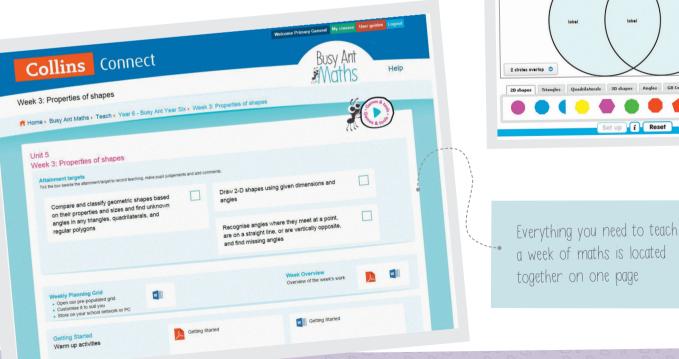
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### MEET THE SPECIFIC NEEDS OF YOUR CLASSROOM

#### **Collins** Connect

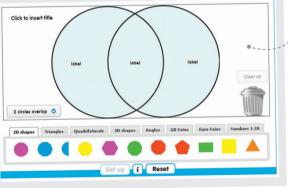
Collins Connect is an innovative online learning platform that supports both teachers and pupils by providing a wealth of content and digital resources.

Ideal as a front-of-class teaching and learning tool. Collins Connect also facilitates independent learning and supports you in keeping parents up-to-date with current teaching.





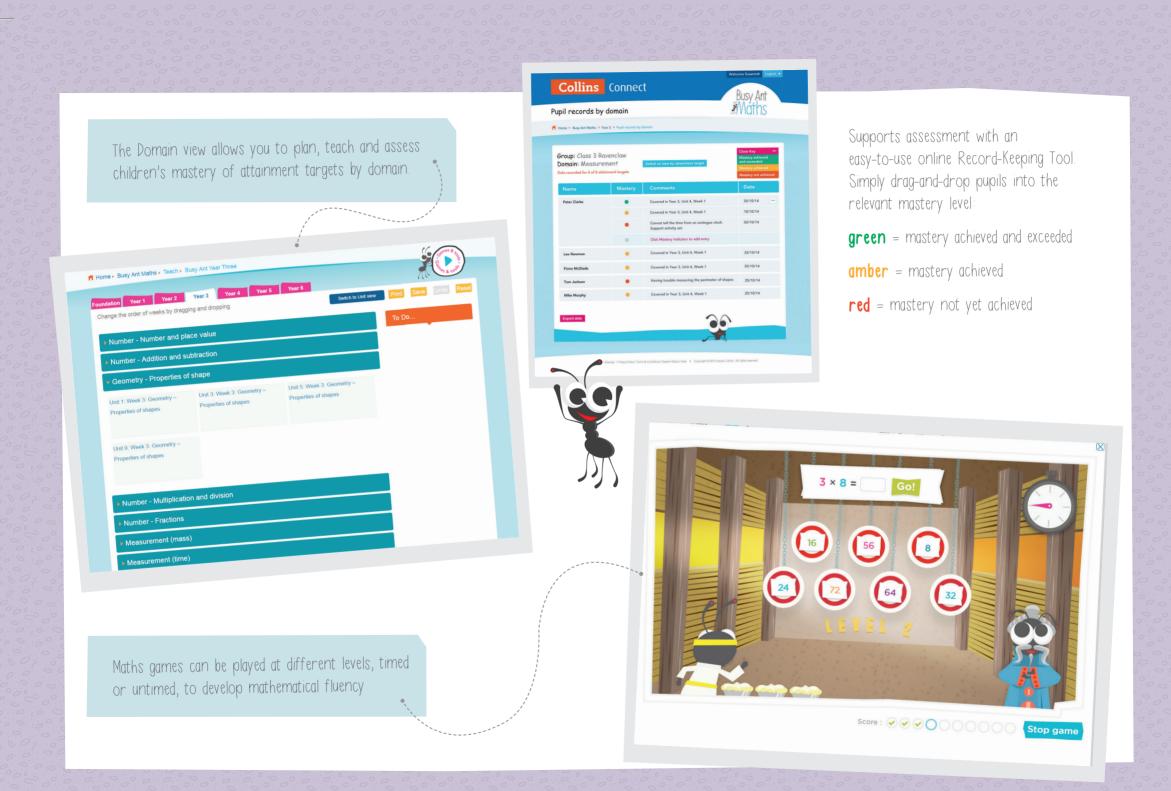
The medium-term plans can be adapted using the online Planning Tool



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

a week of maths is located

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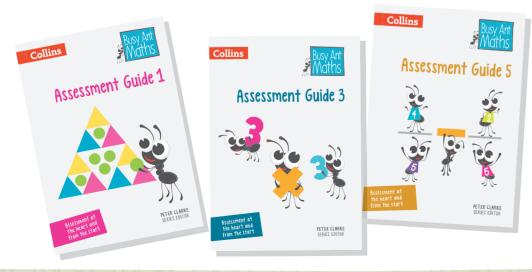


### REGULARLY ASSESS CONCEPTUAL AND PROCEDURAL KNOWLEDGE

#### 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.





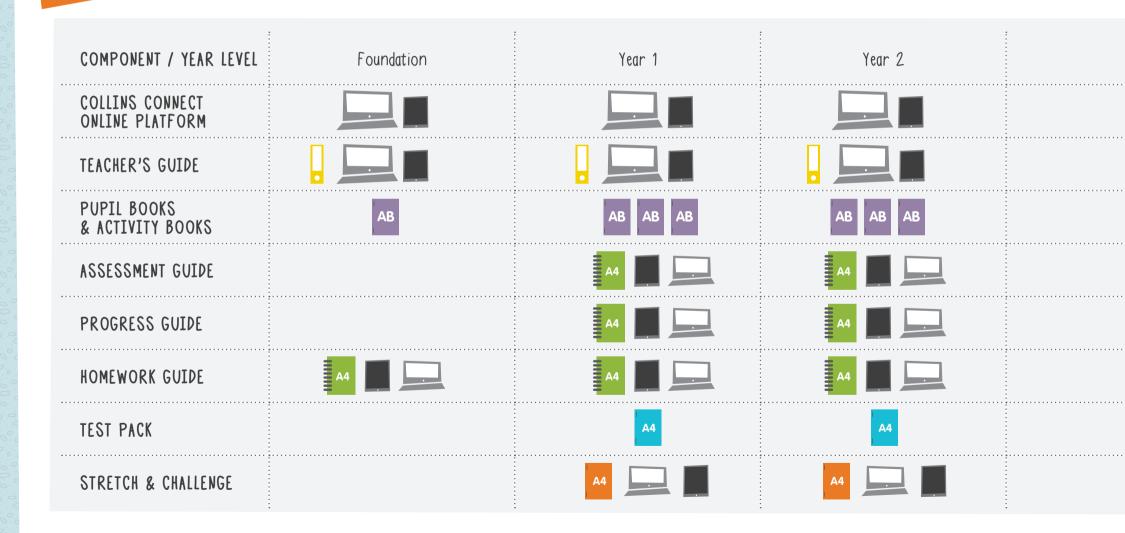
#### STRETCH AND CHALLENGE

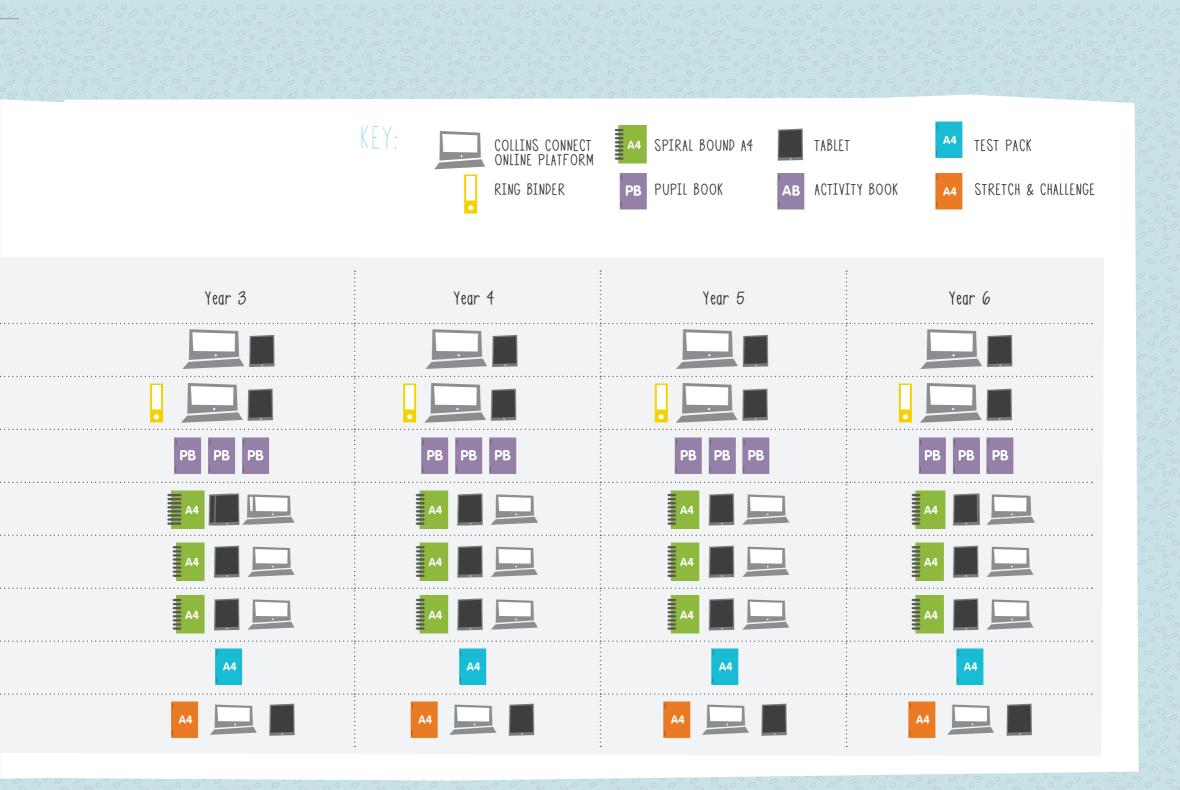
Challenge your more able pupils with resources for each year designed to broaden and deepen their mathematical understanding.

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

### 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





### Collins

#### PRICING

#### The 25% offer is for UK schools only and is available until 30th November 2016.

The prices shown here are for each individual component, and for subscriptions to Busy Ant Maths on Collins Connect. If you are a small school, or in a group of schools looking to resource collectively we can discuss a package and price that suits your requirements.

(Small school = 100 pupils or fewer)

Title	ISBN	Price	Discounted Price	Qty
Foundation				
Foundation Teacher's Guide	9780008124625	£100.00	£75.00	
Foundation Activity Book	9780008124649	£3.15	£2.36	
Foundation Homework Guide	9780008124632	£45.00	£33.75	
1 year subscription to Collins Connect - Foundation	9780008124656	£200.00 (+VAT)	£150.00 (+VAT)	
3 year subscription to Collins Connect - Foundation	9780008125219	£500.00 (+VAT)	£375.00 (+VAT)	
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Year 1 Activity Book 1A	9780007568192	£3.15	£2.36	
Year 1 Activity Book 1B	9780007568208	£3.15	£2.36	
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#### CONTACT THE SPECIAL BUSY ANT CONSULTANT IN YOUR AREA: www.collins.co.uk/findyourrep

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Year 5 Progress Guide	9780007558254	£50.00	£37.50	
Year 5 Homework Guide	9780007568680	£45.00	£33.75	
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