

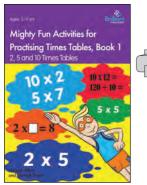
Mathematics

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Get pupils ready for the Year 4 Times Tables Check



Practising Times Tables Book 1 978-1-78317-267-2 2, 5 and 10 Times Tables 54 pages. £17.50 e-pdf £11.99



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Mighty Fun Ideas for Practising Times Tables is a threebook series that uses superheroes to motivate children to practise all of the skills needed to solve multiplication, division and word-based times table problems

- Superhero challenges will appeal to even the most rejuctant of learners
- The enjoyable, reproducible worksheets are designed as flexible teaching aids
- The worksheets can be used in any order to support the learning of any tables
- Use as stand alone 5 to 20 minute lesson reinforcements or as regular times table learning
- Appeals to all types of learner. Practical activities develop understanding and written activities consolidate their knowledge
- The superheroes are based on the sporty characters in the whole-school reward-based scheme The Mighty Multiples Times Table Challenge (page 5)

Multiples Times Table Challenge (page 5)

Throughout the catalogue this logo means the item is a reproducible resource

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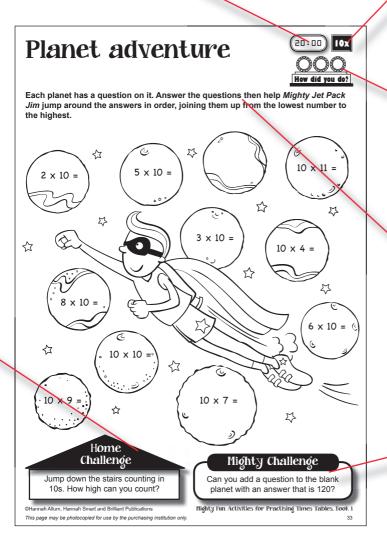
The Home Challenges provide practical and physical learning activities that can be assigned as homework. They have been designed to encourage parents to join in as their children develop their times table knowledge at home in an active way.

Set of three books 978-1-78317-270-2 £42.00 (save £10.50)

Develop fluency with multiplication tables

Approximate time needed to complete the main activity on the sheet. Children will feel a sense of pride and achievement if they can successfully beat the super villain.

Times table covered by sheet is clearly stated.



Children can selfassess how well they feel they have done by colouring in the circles:

1 circle = I need a bit of help please. 2 circles = I'm getting there. 3 circles = I've got it!

Clear instructions for completing the sheet.

The Mighty
Challenges allow
children to selfextend and apply
the skills targeted
during the activity
even further.

Have fun practising times tables skills







Fun Games and Activities for Teaching Times Tables

978-1-78317-274-0 76 pages. £18.50 e-pdf £12.99

Mind the gap



Preparation

then try it with the line representing 35-60. For 15, 35, 60, 55.

Number of players 32. Adults may join in with

Activity

30 children to stand in a long line, with gaps between the

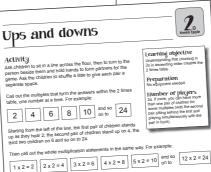
Invite two children to stand, one each slide of the line, a short distance away and roll the hoop to each other. They should move up the line, rolling it through the gaps between each group of five children and chanting, 5, 10, 15, 20, 25, 30. Then they should move back down the line, rolling the hoop through the gaps between each group of five children again and chanting; 35, 40, 45, 50, 55, 60.

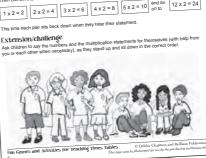
If preferred, children can swap places and two different children can take a turn at rolling the hoop through the gaps as they move back down the line. The game should continue until each player has taken a turn. All players can help by calling out where the right gaps are and charting th

Extension/challenge

Call out multiple numbers at random while two children roll the hoop through the right gaps, with the help of the other players calling out instructions and advice.

- Stimulating and imaginative games to make learning the times tables fun
- Games require minimal preparation so the flow of the lesson is not interrupted
- Pupils will learn fluency, recall and rapid and accurate application of times tables to problems
- 40 games are aimed specifically at learning the 2, 5 and 10 times tables
- A further 30 games are not table specific so you can challenge your pupils to:
 - learn each table in sequence
 - identify which table they are working on
 - learn the different factors that make up each answer





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Learning objective
Visualising and practising
counting on in lens in ascending
and descending order to create
the 10 times table.

Preparation

Number codes 1-12

1 2 or 13 '0' (zero) cards.

Number of players
Ideally 36. If there are leaver
children, adults may join in with
the groups.

and 10 (19 children) and for

n play, they can help with the charting of he floor together, ask the children what they

The preserve of the cards one by one, in descending order, and chart the names of the minimples, counting backwards. For example: 120, 110, 100, 90, 80, 70, 60, 50, 40, 30, 20, 10. If desired, make an extra 0 card by bring out at the end and allow the children to count down to zero and blast off around the room as footies!

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Multi-sensory approach to learning times tables





- Mighty Multiples is a multi-sensory approach to learning the times tables that will appeal to all children:
 - Kinaesthetic activities form a central part of the scheme. Through activities such as the 3x table pathway and the long jump multiplication challenge, children will develop a firm, concrete understanding of the multiplication tables
 - Pupils will love the sporty characters associated with each times table. The visual grouping sheets, number fans, 144 board and bingo games will help them to visualize the times tables pictorially and develop mental pictures
 - Enjoy listening to and joining in with the songs and poems on the CDs. The catchy tunes and amusing rhymes will make learning the times tables easy.
- Problem solving is integral to Mighty Multiples, giving children practice using and applying their times tables in real life situations
- Mighty Multiples works best as a whole-school scheme. Present the in-built motivational rewards at assemblies and watch pupils strive to achieve their Bronze, Silver, Gold and Platinum Awards. The scheme starts with number stories, so even reception children can be involved
- Tip sheets for parents give ideas for practising times tables at the park or in the car, ensuring that learning the times tables is fun for the whole family!



Achieve maths mastery



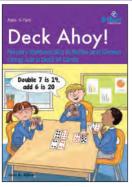
- Missing digit puzzles are a perfect way to challenge Key Stage 2 pupils and help them to achieve maths mastery
- Use the puzzles as starter activities, whole class problem solving or for stretching the more able
- The instructions for these puzzles are simple fill in the gaps in the calculations using each digit provided only once
- The puzzles are designed so that there is one solution, but thousands of possibilities
- The puzzles cannot be solved by simply trying all the permutations – there are far too many
- Pupils will have to really think about the problem and use their knowledge and understanding of maths to decide which statements to fill in first
- The puzzles will develop and consolidate children's understanding of addition, subtraction, multiplication and division, as well as fractions, decimals, percentages and much more.

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Which digits are to be used. Use as a whole class puzzle or starter. Subtraction Puzzle A Use each of the digits 1 to 9 once each to complete the following calculations: 6 – 9 = 0 - 6 =B. Use for fast finishers or to

reinforce maths skills.

Teach primary maths skills using a deck of cards



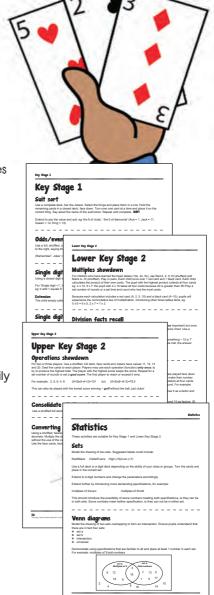


Try the activities on the next pages. All you need is a deck of cards and your pupils' enthusiasm!

Deck Ahoy! 978-1-78317-178-1 56 pages. £18.50 e-pdf £12.99

- Deck Ahoy! contains over 100 activities and games to teach primary maths skills with just a deck of cards
- Contains activities to help children to practise, reinforce and consolidate key mathematical skills:
 - number and place value
 - addition and subtraction
 - multiplication and division
 - fractions and decimals
 - graphs and statistics
 - time
 - ratios
 - squares and cubes
- The ideas are great for homework. The whole family can get involved, any where, any time
- No worksheets needed (or marking to do!)
- Playing with cards really appeals to children, keeping them engaged and on task as they develop vital skills.
- Playing cards are readily available and cheap!

"This book is not only a valuable tool in a teacher's box of tricks, it is fun, easy to read and accessible to everyone. What shines through is that it has been designed, tested and enthused over by a skilled practitioner." Headteacher of a Derbyshire school



Free deck of cards activity from Deck Ahoy!

Try these activities and have fun finding out how much pupils will love practising maths with a deck of cards – brilliant to set as homework.

Key Stage 1

Add the deck

Very simple in principle, this activity gives endless variety and differentiation. Use a faceless deck, shuffled and closed. Encourage pupils to use their knowledge of number bonds and number bonds to 10, to add quickly and accurately. It is more accurate and quicker for mental maths than counting on their fingers!

For example:

$$6 + 9 = 6 + 4(10) + 5 = 15$$

$$7 + 5 = 7 + 3(10) + 2 = 12$$

Variations

- Turn over 2 cards and add them (maximum 20).
- Turn over 2 cards and add them. Turn over the next card and add to the previous total.
 (Maximum to be set according to ability eg 30, 50, 100.)
- Turn over 2 cards and use as a 2-digit total continue as before until the total is reached
- Add the complete deck in single digits.
- Competitive each player turns over two cards, calculates the total and the player with the highest total collects all four cards.
- Teacher led/peer assessed the teacher decides how many cards each pupil will turn over. Each child totals their cards, writes their answer and then swaps cards with a partner for assessment.

Extension

Extend the challenge for more able pupils by including the face cards and Jokers (11, 12, 13, and 20)

Simple subtraction

Turn over two cards. Place highest value to the left and read the two cards as a number sentence eg if the cards were 9 and 7: '9 take away 7 is 2' (9 - 7 = 2). Extend to 2-digits take away a single digit.

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Deck Ahoy!

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NB faceless, closed deck: cards Ace to 10, face down, closed together

RRF! Random and Rapid Fire – This is the part the kids love the most. When they have practiced a skill to the point they are sure they can recall randomly and rapidly, shuffle the deck and turn over each card, one at a time, quickly as the child calls out the response.

Lower Key Stage 2

Rapid fire 100s and 1000s

Use a shuffled, digit deck to generate 3-digit numbers for pupils to read aloud. Children progress very quickly reading and partitioning bigger and bigger numbers. Year 3s can read 7 digits in no time at all and love the challenge of questions such as (7 546 921) 'what is the value of the 4?' or 'what is the largest number you can make with these digits?'

Written tasks are simple, effective and 'unique'. The number of digits should be set by the teacher according to the pupil's ability. The number can be written in numerals or words.

Place value - ordering/comparing

Use a shuffled digit deck and turn over three cards. Write the 3-digit number as it appears, in the middle of the line. Write the smallest number achievable to the left; write biggest number achievable to the right.

Tip

Because the written work is based on numbers only, encourage children to use letters rather than numbers to label each example, when writing in their books, eg:

(382) A 238 382 832

Multiplying by 10

Single digit numbers times 10. Use a shuffled, digit deck. RRF!

Then introduce J, Q, K (11, 12, 13) then the Jokers (20). Return to a digit deck before moving on to 2-digit and 3-digit numbers, for more able pupils. **RRF!**



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NB digit deck: cards Ace to 9

All you need is a deck of cards!

Are your pupils improving their maths skills? Get more activities in 'Deck Ahoy!' Order on our website www.brilliantpublications.co.uk

Upper Key Stage 2

Doubling numbers with 1 decimal place

Use a shuffled, digit deck. Turn over three cards in a horizontal row. Turn the middle card face down to represent the decimal point. Record the number. Double the units. Double the tenths. Ensure pupils do not record 12 tenths as 12 hundredths. For example:

double 3.6 = 'double 3 is 6, double 6 tenths is 12 tenths or 1 and 2 tenths so double 3.6 is 7 and 2 tenths, 7.2'.

It may help some children to write the original number twice, in column form and add, carrying as in addition of whole numbers.

Extend more able pupils by using four cards eg 23.6, 45.9 etc. (Remember to keep one card face down as the decimal point.)

Halving numbers with 1 decimal place

As above. Ensure pupils understand that odd whole numbers will add 10 to their decimal value (ie add ten tenths.) For example: 'half of 2.8 is 1.4' but 'half of 3.8 is half of 2 plus half of 1.8', which is 1.9.

Divisibility tests

Although these have been covered before, they are worth revisiting with ever increasing numbers. Quick recognition of divisibility is a key skill in long division.

Test 2-digit numbers for divisibility. Test 3-digit numbers for divisibility. Use a shuffled deck, with the 10 and Jokers removed. The face cards can be turned down to represent zero.

Divisibility by 8

If the number is **even**, find half. If the answer is **even**, find half again. If the answer is **even**, the number is divisible by eight.

Divisibility by 9

Add the digits together. If the answer is a product of the 9x table, the number is divisible by 9. (*Or*, if it can be divided by 3 and the quotient can be divided by 3 again.)

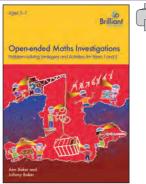
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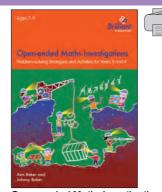
NB digit deck: cards Ace to 9

Develop problem solving strategies



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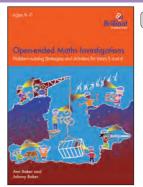


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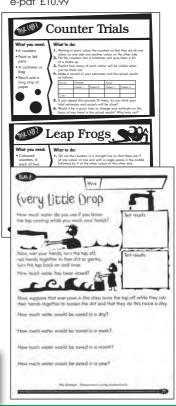
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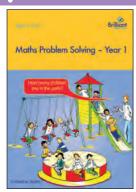


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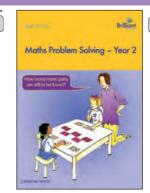
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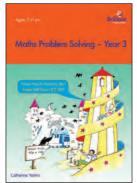
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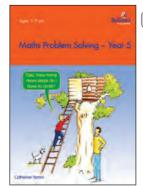
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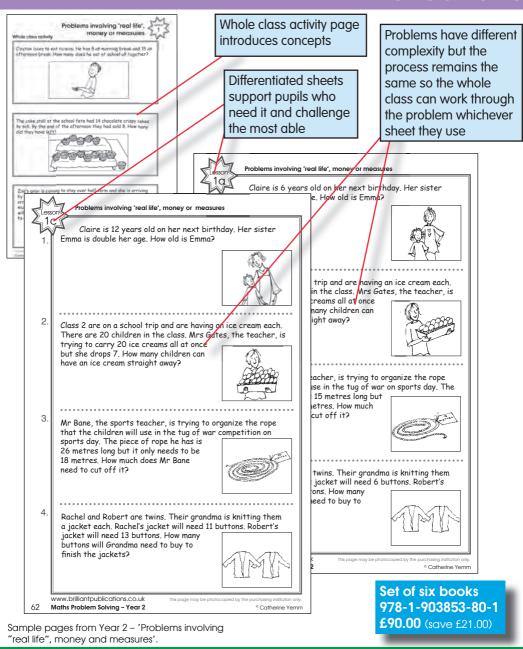
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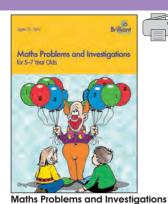
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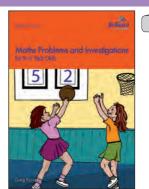


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- The activities and investigations help children to develop, reinforce and consolidate their problemsolving skills. To successfully solve the investigations children will need to demonstrate:
 - ability to think and work mathematically
 - knowledge of a range of mental and written strategies
 - overall competence in mathematics
- The three-step approach used on most sheets makes it easy to do mini-assessments, to check pupils understanding
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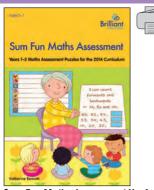


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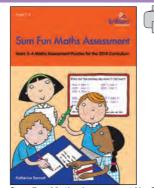
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