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### The components

#### Teacher's Book

The *Scholastic Times Tables Teacher's Book* provides you with a wealth of activities to help your children master the times tables. Work through the activities one by one or dip in and out – whatever works best for you and your class!

Choose from a bank of activities which promote problem-solving, reasoning and fluency. Aim to use a range of activities so that children have an opportunity to approach the times tables in a variety of ways.

The activities use a wide range of resources: some rely on using concrete resources, others have a whiteboard component to them, and others may require a photocopiable resource which can be downloaded from www.scholastic.co.uk/timestables-resources. Finally, some require no resources at all.





#### The Practice Book

The *Scholastic Times Tables Practice Book* has been designed to provide children with further opportunities for revision and practice of the times tables.

Use it alongside the *Teacher's Book*, as part of general class practice or for home learning. Look for the *Practice Book* icon in the 'You will need' section at the start of an activity for activities which relate directly to the *Times Tables Practice Book*.



Additional materials for this book can be found online at the following address: **www.scholastic.co.uk/timestables-resources** these include:

- resource pages including games and worksheets
- supporting PowerPoint digital files for display during your classroom teaching
- quick-fire written tests for additional practice or homework. These tests have three levels of differentiation and are aligned with a unit or group of units from the *Teacher's Book*. Assign one of the three sections at a time and progress through them in order.

If digital files are required, they will be listed in the 'You will need' section at the start of an activity. Look for the digital icon for activities using digital content.



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# DOUBLING

ecognising and recalling doubles of whole numbers is an early multiplication skill. Using the correct vocabulary, doubling can be introduced practically using everyday objects and pictures, such as counting the spots on dominoes or ladybirds. Many children may already have experience from playing dice games and dominoes. Children should have opportunities to learn and develop quick recall of doubling facts for numbers to 12. They should be taught to choose and use suitable strategies for doubling larger numbers when playing games or solving simple everyday problems such as while shopping or baking (for example how to partition a 2-digit number into 10s and 1s before doubling it). Mastery of doubling can support children's developing understanding of early multiplication in several ways, for example understanding that doubling can be shown as repeated addition using the symbols + and = (3 + 3 = 6) or multiplying a number by 2 ( $3 \times 2 = 6$ ). In these activities, children are shown how to partition a 2-digit number into 10s and 1s and how to recognise odd and even numbers.



I rolled 2 5s. That's double	5! That's 10 altog	ether.
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Activity	Objective	Focus	Organisation	Development
Body doubles! (p18)		Using concrete resources to introduce the concept of doubling	Whole class	Fluency
<b>Tower blocks</b> (p18)	Solve 1-step problems involving multiplication and division, using materials, arrays, repeated addition mental methods and	Using concrete resources to provide a visual sense of calculating doubles	Pairs	Problem- solving
Ladybird doubles (p19)	multiplication and division facts, including problems in context	Using pictorial resources to practise doubling small quantities. Recording a double as a number sentence using the symbols + and =	Whole class/ pairs	Fluency and reasoning
<b>Domino doubles</b> (p19)	Solve 1-step problems involving multiplication and division	Using concrete resources to get a visual sense of calculating doubles. To record a double as a number sentence using the symbols + and =	Whole class	Fluency
Shopping spree (p20)	Solve problems involving multiplication and division,	Learning how to double a 2-digit number by partitioning	Whole class/ individuals	Problem- solving
<b>Magic bean</b> (p20)	addition, mental methods, and multiplication and division facts, including problems in contexts	Doubling a 2-digit number by partitioning	Whole class/ small groups	Problem- solving and reasoning
Fairy cakes (p21)	(Year 2)	Selecting suitable strategies to double numbers	Individuals/ pairs	Fluency

## ladybird doubles



**You need:** digital file 4 (Ladybird doubles); whiteboards and pens; counters; cubes; number lines

## STEPS

Show children digital file 4 (Ladybird doubles) and look at the ladybird picture. Ask: How many spots does the ladybird have on each wing? How many spots altogether? Let's say together, "double 4 makes 8".

Ask children to represent the double as a number sentence: 4 + 4 = 8.

Draw the outline of a ladybird on the board. Draw an equal number of spots on each wing. Ask: What can you tell me about the spots on this ladybird? Is it a double? Why? (there is an equal/the same number of spots) How could we represent the number of spots as an addition sentence?

Repeat, this time drawing an unequal number of spots. Ask: *Is this ladybird a double? Why not?* 

In pairs, children imagine a ladybird with 16 spots. Can you work out how many spots the ladybird has on each wing? Encourage children to calculate, check and explain the problem using practical apparatus (for example fingers, cubes, number track), pictures and/or symbols. Ask: How did you work out the answer?

#### EXTEND

Using cubes or playing cards, children work out the doubles of larger numbers. They investigate halving small numbers for example *I am imagining a ladybird. It has 10 spots altogether. How many spots are on each wing?* 

## DOMINO DOUBLES

**You need:** a small bag containing all the domino doubles; 1 whiteboard and pen per child

#### STEPS

Choose a volunteer to take a domino out of the bag without showing it to the other children.

Ask them to say which domino it is (for example double 5). Tell children to draw a picture of what they think the domino looks like. Show them the double 5 domino. Ask: *Does the domino you have drawn look like this? How did you know how many spots to draw on each side of the domino?* Count how many spots are on the domino altogether. Say together, *Double 5 makes 10.* Return the domino to the bag.

Repeat several times with different children picking a domino out of the bag.

Ask children to draw all the doubles in a set of dominoes and write a number sentence to describe each double.

### EXTEND

Children practise quick recall of doubles facts from 0–6. Call out a double, for example *Double 6!* Children shout out the correct answer as quickly as they can.