

Fantastic facts

Focus of activity: Knowing the 2, 3, 4, 5 and 10 times tables by heart.

Working together: conceptual understanding

- Explain that today children are going to practise the 2, 3, 4, 5 and 10 times tables. *It's really important to know as many of these facts by heart as we can. Knowing them makes us much quicker at maths!*
- Together count in 2s along a counting stick from 0 to 20 (if a 10-section counting stick). *What number comes next? (20) And next? (24)*



- Point to various places on the counting stick. *What number in the 2 times table belongs here? e.g. 8. What multiplication can we say? e.g. 2 times 4 is 8.*
- Count in 10s along the stick from 0 to 100. Point to different places on the stick and ask children for the multiple of 10, and then the multiplication fact. Point to 100, and then after the next imaginary section. *What is 11 times 10? And 12 times 10?*
- Repeat for the 5 times table. Count in steps of 5. Point to various places on the stick asking children for the multiple of 5, then the multiplication fact. Include 11×5 and 12×5 .
- Repeat for the 3 times table, and then the 4 times table.

Up for a challenge?

What multiple of 3 goes here? e.g. 15. How many 3s are in 15? What division can we write? Repeat for other divisions.

Now it's the children's turn:

- Children choose a times table from 2, 3, 4, 5 and 10 which they think they are quite good at. They find the multiples strip. They shuffle a pack of 0 to 12 cards and turn face down. They turn them over one at a time and multiply the number on the card by their chosen times table. They cross off the answer on the multiples strip. They see if they can get through the whole pack of cards. If they don't know a fact, they use 'clever counting' to work it out.
- They then repeat the game but for a times table which they don't know so well. If time, repeat for another times table.
- Go round the group and assist them in making sensible choices about which times tables to practise. Observe whether they know the facts by heart or are using clever counting to work out more than a few answers for each times table. It may be worth practising one times table several times to get better at it.

S-t-r-e-t-c-h:

If children cope well, ask them to play the games without using the multiples strips, but write down each answer, then check their answers with the strip after the game.

Things to remember

Remember that the more times tables facts we know by heart, the quicker we will get at multiplication. Ask children to share a few times tables facts which they now know by heart. Well done them!

You may want to add something that has emerged from the activity. This may refer to misconceptions or mistakes made.

Resources

- Counting stick
- 0 to 12 cards
- Multiples strips (see child instructions)

Outcomes

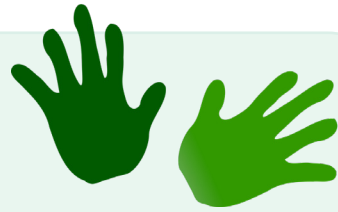
1. Children know the 2, 5 and 10 times tables.
2. Children begin to know the 3 and 4 times tables.

Fantastic facts

Work in pairs

Things you will need:

- A set of 0 to 12 cards
- Multiples strips
- A pencil



What to do:

- Choose a times table from 2, 3, 4, 5 and 10 which you think you both know fairly well, but not perfectly.
- Find the matching multiples strip.
- Shuffle a pack of 0 to 12 cards and turn face down.
- Turn them over one at a time.
Multiply the number on the card by the number of your chosen times table.
- Cross off the answer on the multiples strip. If the answer isn't there, try again!
- See if you can get through the whole pack of cards.
- If you don't know a fact, use 'clever counting' to work it out.
- Repeat the game but for a times table which you don't know so well.
- If time, repeat, or choose another times table.

S-t-r-e-t-c-h:

Play the games without using the multiple strip. Write down each answer, then check your answers with the strip after the game.

Learning outcomes:

- I know the 2, 5 and 10 times tables.
- I am beginning to know the 3 and 4 times tables.

Fantastic facts

Multiples of 2	0	10	8	22	2	12	20	4	18	14	6	16	24
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Multiples of 3	9	3	24	15	6	21	30	0	12	33	18	36	27
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Multiples of 4	4	32	12	28	40	0	16	36	20	44	24	48	8
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Multiples of 5	40	5	35	0	45	20	30	10	25	55	50	60	15
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Multiples of 10	70	10	120	50	60	110	0	80	20	90	30	40	100
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