Maths - Year 2

Calculating 8: Introducing multiplying as repeated addition

Key Vocabulary

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Times/multiply	Repeated adding of a number to find 'so many lots of something', e.g. 3 lots of 4 = 4 + 4 + 4 = 3 x 4 = 12.
Add	Combine two or more amounts to make a total.
Product	The result of multiplying two or more numbers together.
Groups of/ lots of	Refers to how many 'groups' or 'lots' of an amount you are multiply e.g. 3 x 4 = 3 'lots/ group' of 4.
Repeated addition	Adding the same number again and again e.g. 5 x 3 = 3 + 3 + 3 + 3 + 3.

Mathematical Skills

- Make the connection between repeated adding and multiplying, and explain that multiplying is what we do instead of repeated adding.
- Explain, e.g. '2 times the 5-shape/rod' as 2 lots of 5 and record it as '2 x 5'.
- Connect the sequences of 2s, 5s and 10s with multiplying by 2, 3, 5 and 10.
- Read and write multiplying number sentences.
- Respond to and use the word 'product' to describe the outcome of multiplying.
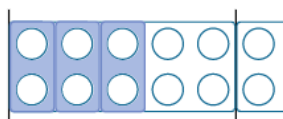- Know when to calculate.

Mathematical Methods

- Introducing the word 'times' with repeated adding e.g. organising costumes for four children in a class assembly.

masks	1 + 1 + 1 + 1
silver sleeves	2 + 2 + 2 + 2
wobbly antennae	3 + 3 + 3 + 3
shiny badges	5 + 5 + 5 + 5
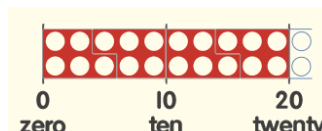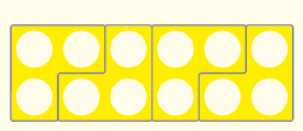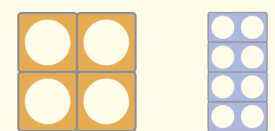
- Repeating actions a number of 'times' in PE.

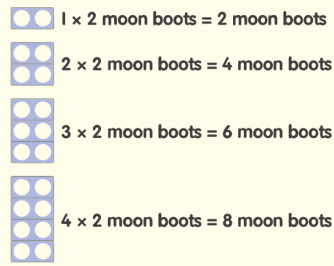- Using the word 'times' with repeated Numicon shapes e.g. 'three times a group of two stars'.

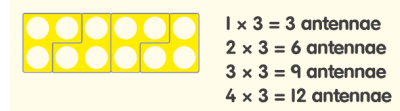- Introducing the 'x' symbol with the sequence of 2s.

2 times 2 moon boots

1 times 2 moon boots

3 times 2 moon boots

- Finding products with the sequence of 2s.

1 × 2 moon boots = 2 moon boots

2 × 2 moon boots = 4 moon boots

3 × 2 moon boots = 6 moon boots

4 × 2 moon boots = 8 moon boots

- Using the 'x' symbol and finding products with the sequence of 3s.

1 × 3 = 3 antennae
2 × 3 = 6 antennae
3 × 3 = 9 antennae
4 × 3 = 12 antennae

- Using the 'x' symbol and finding products with the sequence of 5s.

1 × 5 legs = 5 legs

2 × 5 legs = 10 legs

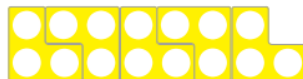3 × 5 legs = 15 legs

4 × 5 legs = 20 legs
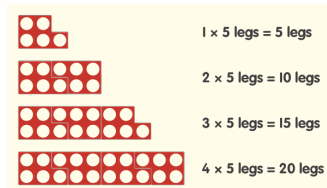
- Using the 'x' symbol and finding products with the sequence of 10s.

1 × 10 wheels = 10 wheels
2 × 10 wheels = 20 wheels
3 × 10 wheels = 30 wheels
4 × 10 wheels = 40 wheels

Can you..?

- Can you write a times number sentence for these Numicon shapes?

- Stickers come in packs of 10. If I buy 5 packets, how many stickers will I have? Can you write an adding number sentence and a times number sentence to show this?

- Can you read these number sentences? Which sentences have 10 as a product?

$$80 = 8 \times 10$$
$$1 \times 10 = 10$$
$$10 = 5 \times 2$$
$$10 \times 5 = 50$$