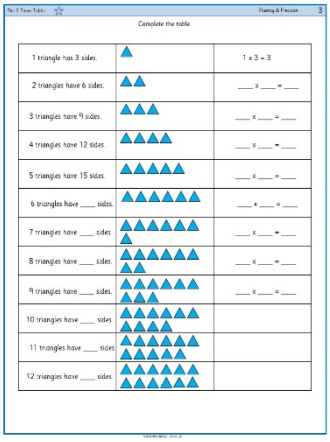
Lesson 13 – The 3 Times Tables

NC Objective:	Resources needed:	Vocabulary:
Write and calculate mathematical statements for multiplication and division using the multiplication tables they know.	Differentiated Sheets Teaching Slides	Multiplication and division

Children draw together their knowledge of multiplying and dividing by three in order to become more fluent in the three times table.
Children apply their knowledge to different contexts.

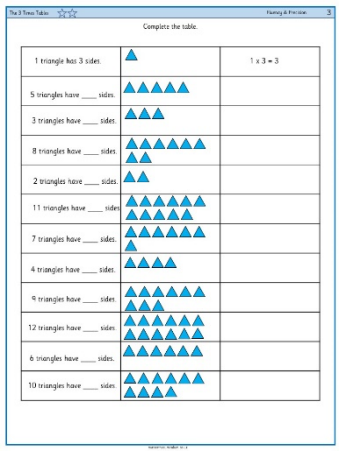
Key Questions:
Can you use concrete or pictorial representations to help you?
What other facts can you link to this one?
What other times table will help us with this question?

★ Working Towards



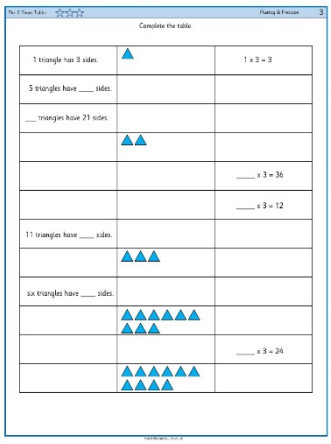
Children practise the 3 times tables in order. They work towards writing their own multiplication sentence.

★★ Working Within



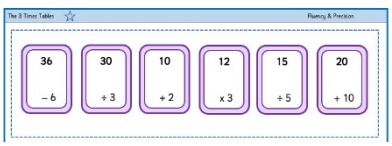
Children practise the 3 times tables in a random order. They are to fill in two columns- the total sides and also the number sentence

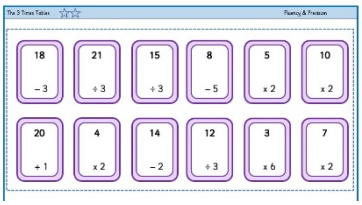
★★★ Greater Depth

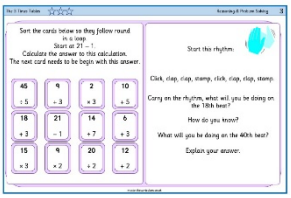


Children on this sheet have missing boxes. They use the box filled in, to then work out the missing information

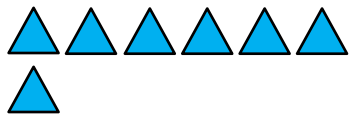
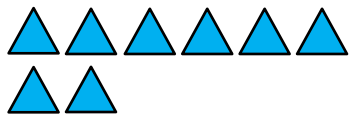
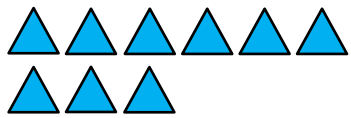
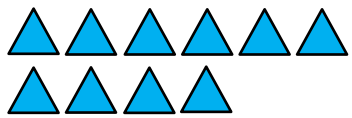
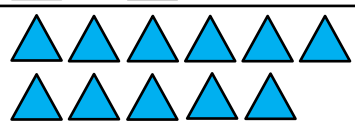
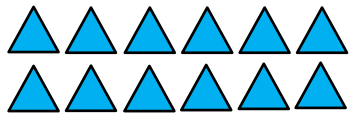
Reasoning & Problem Solving



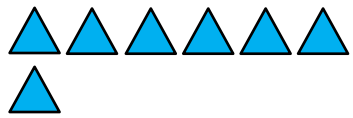
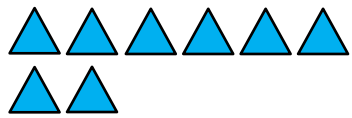
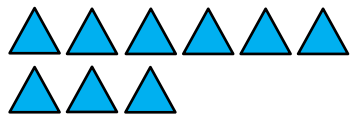
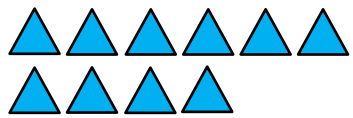
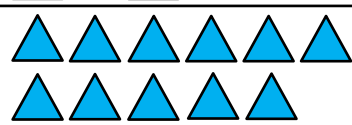
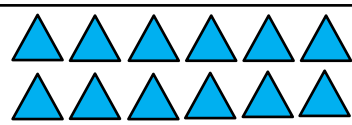




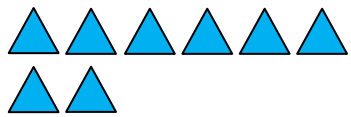
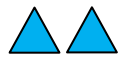
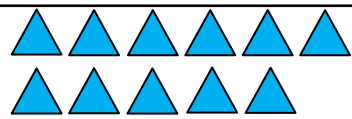
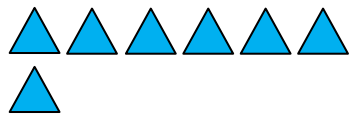
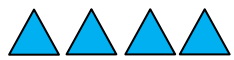
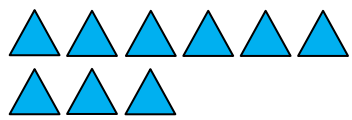
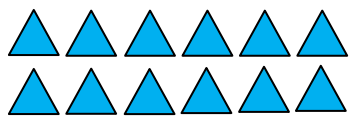
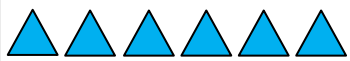
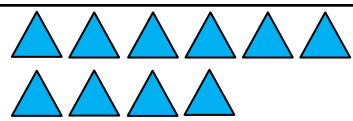
Complete the table.

1 triangle has 3 sides.		1 x 3 = 3
2 triangles have 6 sides.		_____ x _____ = _____
3 triangles have 9 sides.		_____ x _____ = _____
4 triangles have 12 sides.		_____ x _____ = _____
5 triangles have 15 sides.		_____ x _____ = _____
6 triangles have _____ sides.		_____ x _____ = _____
7 triangles have _____ sides.		_____ x _____ = _____
8 triangles have _____ sides.		_____ x _____ = _____
9 triangles have _____ sides.		_____ x _____ = _____
10 triangles have _____ sides.		
11 triangles have _____ sides.		
12 triangles have _____ sides.		

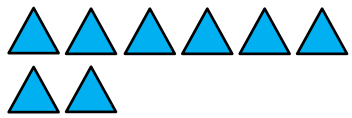
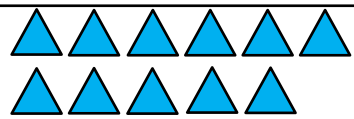
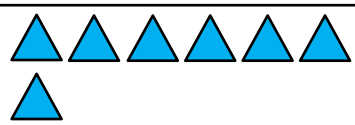
Complete the table.

1 triangle has 3 sides.		1 x 3 = 3
2 triangles have 6 sides.		2 x 3 = 6
3 triangles have 9 sides.		3 x 3 = 9
4 triangles have 12 sides.		4 x 3 = 12
5 triangles have 15 sides.		5 x 3 = 15
6 triangles have _____ sides.		6 x 3 = 18
7 triangles have _____ sides.		7 x 3 = 21
8 triangles have _____ sides.		8 x 3 = 24
9 triangles have _____ sides.		9 x 3 = 27
10 triangles have _____ sides.		10 x 3 = 30
11 triangles have _____ sides.		11 x 3 = 33
12 triangles have _____ sides.		12 x 3 = 36

Complete the table.

1 triangle has 3 sides.		1 x 3 = 3
5 triangles have _____ sides.		
3 triangles have _____ sides.		
8 triangles have _____ sides.		
2 triangles have _____ sides.		
11 triangles have _____ sides.		
7 triangles have _____ sides.		
4 triangles have _____ sides.		
9 triangles have _____ sides.		
12 triangles have _____ sides.		
6 triangles have _____ sides.		
10 triangles have _____ sides.		

Complete the table.

1 triangle has 3 sides.		1 x 3 = 3
5 triangles have 15 sides.		5 x 3 = 15
3 triangles have 9 sides.		3 x 3 = 9
8 triangles have 24 sides.		8 x 3 = 24
2 triangles have 6 sides.		2 x 3 = 6
11 triangles have 33 sides.		11 x 3 = 33
7 triangles have 21 sides.		7 x 3 = 21
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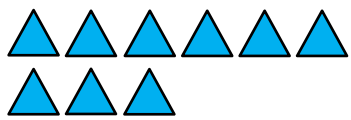
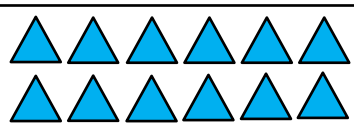
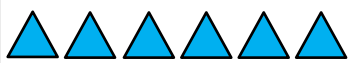
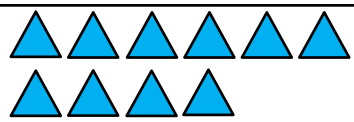
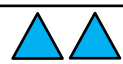
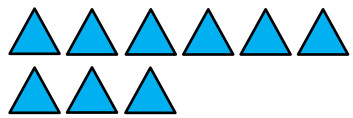
9 triangles have 27 sides.		9 x 3 = 27
12 triangles have 36 sides.		12 x 3 = 36
6 triangles have 18 sides.		6 x 3 = 18
10 triangles have 30 sides.		10 x 3 = 30

Complete the table.

1 triangle has 3 sides.		1 x 3 = 3
5 triangles have _____ sides.		
___ triangles have 21 sides.		
		
		_____ x 3 = 36
		_____ x 3 = 12
11 triangles have _____ sides.		
		
six triangles have _____ sides.		
		
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	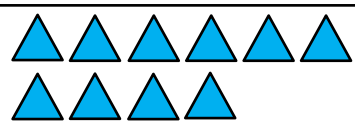	

Complete the table.

1 triangle has 3 sides.		1 x 3 = 3
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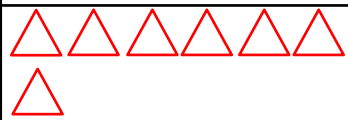
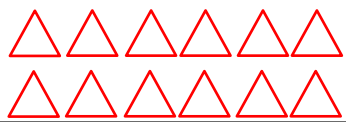
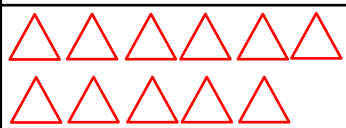
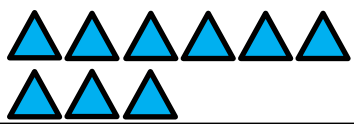
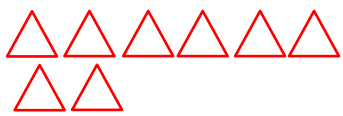
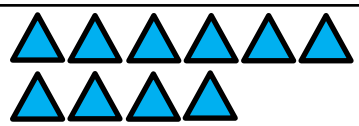
7 triangles have 21 sides.		7 x 3 = 21
2 triangles have 6 sides.		2 x 3 = 6
12 triangles have 36 sides.		12 x 3 = 36
4 triangles have 12 sides.		4 x 3 = 12
11 triangles have 33 sides.		11 x 3 = 33
3 triangles have 9 sides.		3 x 3 = 9
six triangles have 18 sides.		6 x 3 = 18
9 triangles have 27 sides.		9 x 3 = 27
8 triangles have 24 sides.		8 x 3 = 24
10 triangles have 30 sides.		10 x 3 = 30

Sort the cards below so they follow round in a loop.

Start at 20 + 10.
Calculate the answer to this calculation.
The next card needs to be begin with this answer.

36 - 6	30 ÷ 3	10 + 2
12 × 3	15 ÷ 5	20 + 10

Start this rhythm:

Clap, clap, click, clap, clap, click.
1 2 3 4 5 6

Carry on the rhythm, what will you be doing on the 9th beat?

How do you know?

What will you be doing on the 20th beat?

Explain your answer.

The 3 Times Tables ☆ Reasoning & Problem Solving 3

Sort the cards below so they follow round in a loop.

Start at 20 + 10.
Calculate the answer to this calculation.
The next card needs to be begin with this answer.

36 - 6	30 ÷ 3	10 + 2
12 × 3	15 ÷ 5	20 + 10

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How do you know?

What will you be doing on the 20th beat?

Explain your answer.

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36	30	10	12	15	20
– 6	÷ 3	+ 2	x 3	÷ 5	+ 10

36	30	10	12	15	20
– 6	÷ 3	+ 2	x 3	÷ 5	+ 10

36	30	10	12	15	20
– 6	÷ 3	+ 2	x 3	÷ 5	+ 10

36	30	10	12	15	20
– 6	÷ 3	+ 2	x 3	÷ 5	+ 10

Sort the cards below so they follow round in a loop.

Start at 20 + 10.
Calculate the answer to this calculation.
The next card needs to be begin with this answer.

36 - 6	30 ÷ 3	10 + 2
12 × 3	15 ÷ 5	20 + 10

Order:
20 + 10, 30 ÷ 3, 10 + 2, 12 x 3, 36 – 6, 30 – 10

Start this rhythm:

Clap, clap, click, clap, clap, click.
1 2 3 4 5 6

Carry on the rhythm, what will you be doing on the 9th beat?

What will you be doing on the 20th beat?

Clicks are multiples of three.
On the 9th beat, I will be clicking because 9 is a multiple of 3.
On the 20th beat, I will be clapping because 20 is not a multiple of 3.

The 3 Times Tables ☆ Answers Reasoning & Problem Solving 3

Sort the cards below so they follow round in a loop.

Start at 20 + 10.
Calculate the answer to this calculation.
The next card needs to be begin with this answer.

36 - 6	30 ÷ 3	10 + 2
12 × 3	15 ÷ 5	20 + 10

Order:
20 + 10, 30 ÷ 3, 10 + 2, 12 x 3, 36 – 6, 30 – 10

Start this rhythm:

Clap, clap, click, clap, clap, click.
1 2 3 4 5 6

Carry on the rhythm, what will you be doing on the 9th beat?

What will you be doing on the 20th beat?

Clicks are multiples of three.
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Sort the cards below so they follow round in a loop.
Start at 18 – 3.
Calculate the answer to this calculation. The next card needs to be begin with this answer.

18 – 3	21 ÷ 3	15 ÷ 3	8 – 5
5 × 2	10 × 2	20 + 1	4 × 2
14 – 2	12 ÷ 3	3 x 6	7 x 2

Start this rhythm:

Clap, clap, click, clap, clap, click.

Carry on the rhythm, what will you be doing on the 15th beat?

How do you know?

What will you be doing on the 20th beat?

Explain your answer.

The 3 Times Tables Reasoning & Problem Solving 3

Sort the cards below so they follow round in a loop.
Start at 18 – 3.
Calculate the answer to this calculation. The next card needs to be begin with this answer.

18 – 3	21 ÷ 3	15 ÷ 3	8 – 5
5 × 2	10 × 2	20 + 1	4 × 2
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Start this rhythm:

Clap, clap, click, clap, clap, click.

Carry on the rhythm, what will you be doing on the 15th beat?

How do you know?

What will you be doing on the 20th beat?

Explain your answer.

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Calculate the answer to this calculation. The next card needs to be begin with this answer.

Order:

18 – 3 , 15 ÷ 3, 5 x 2, 10 x 2, 20 + 1, 21 ÷ 3, 7 x 2, 14 – 2 , 12 ÷ 3, 4 x 2, 8 – 5, 3 x 6

18 – 3	21 ÷ 3	15 ÷ 3	8 – 5
5 × 2	10 × 2	20 + 1	4 × 2
14 – 2	12 ÷ 3	3 x 6	7 x 2

Start this rhythm:

Clap, clap, click, clap, clap, click.

Carry on the rhythm, what will you be doing on the 15th beat?

How do you know?

What will you be doing on the 20th beat?

Explain your answer.

Clicks are multiples of three.
On the 15th beat, I will be clicking because 15 is a multiple of 3.
On the 20th beat, I will be clapping because 20 is not a multiple of 3.

The 3 Times Tables ☆☆ Reasoning & Problem Solving 3

Calculate the answer to this calculation. The next card needs to be begin with this answer.

Order:

18 – 3 , 15 ÷ 3, 5 x 2, 10 x 2, 20 + 1, 21 ÷ 3, 7 x 2, 14 – 2 , 12 ÷ 3, 4 x 2, 8 – 5, 3 x 6

18 – 3	21 ÷ 3	15 ÷ 3	8 – 5
5 × 2	10 × 2	20 + 1	4 × 2
14 – 2	12 ÷ 3	3 x 6	7 x 2

Start this rhythm:

Clap, clap, click, clap, clap, click.

Carry on the rhythm, what will you be doing on the 15th beat?

How do you know?

What will you be doing on the 20th beat?

Explain your answer.

Clicks are multiples of three.
On the 15th beat, I will be clicking because 15 is a multiple of 3.
On the 20th beat, I will be clapping because 20 is not a multiple of 3.

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18 – 3	21 ÷ 3	15 ÷ 3	8 – 5	5 x 2	10 x 2
20 + 1	4 x 2	14 – 2	12 ÷ 3	3 x 6	7 x 2

18 – 3	21 ÷ 3	15 ÷ 3	8 – 5	5 x 2	10 x 2
20 + 1	4 x 2	14 – 2	12 ÷ 3	3 x 6	7 x 2

Sort the cards below so they follow round in a loop.
Start at 21 – 1.
Calculate the answer to this calculation.
The next card needs to be begin with this answer.

45 ÷ 5	9 + 3	2 × 3	10 + 5
18 + 3	21 – 1	14 ÷ 7	6 + 3
15 × 3	9 × 2	20 ÷ 2	12 + 2

Start this rhythm:

Click, clap, clap, stamp, click, clap, clap, stamp.

Carry on the rhythm, what will you be doing on the 18th beat?

How do you know?

What will you be doing on the 40th beat?

Explain your answer.

The 3 Times Tables Reasoning & Problem Solving 3

Sort the cards below so they follow round in a loop.
Start at 21 – 1.
Calculate the answer to this calculation.
The next card needs to be begin with this answer.

45 ÷ 5	9 + 3	2 × 3	10 + 5
18 + 3	21 – 1	14 ÷ 7	6 + 3
15 × 3	9 × 2	20 ÷ 2	12 + 2

Start this rhythm:

Click, clap, click, clap, click, clap, click.

Carry on the rhythm, what will you be doing on the 18th beat?

How do you know?

What will you be doing on the 40th beat?

Explain your answer.

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Sort the cards below so they follow round in a loop.
Start at 21 – 1.
Calculate the answer to this calculation.
The next card needs to be begin with this answer.

45 ÷ 5	9 + 3	2 × 3	10 + 5
18 + 3	21 – 1	14 ÷ 7	6 + 3
15 × 3	9 × 2	20 ÷ 2	12 + 2

Order:
21 – 1, 20 ÷ 2, 10 + 5, 15 × 3, 45 ÷ 5, 9 + 3,
12 + 2, 14 ÷ 7, 2 × 3, 6 + 3, 9 × 2, 18 + 3.

Start this rhythm:

Click, click, stamp, clap, click, stamp,
click, click, stamp, clap, click, stamp,

Carry on the rhythm, what will you be doing on the 18th beat?

How do you know?

What will you be doing on the 40th beat?
Explain your answer.

Stamps are multiples of three.
On the 18th beat, I will be stamping because 18 is a multiple of 3.
On the 40th beat, I will be clapping.
I know the 39th is clicking and a stamp comes after this.

The 3 Times Tables ☆☆☆ Answers Reasoning & Problem Solving 3

Sort the cards below so they follow round in a loop.
Start at 21 – 1.
Calculate the answer to this calculation.
The next card needs to be begin with this answer.

45 ÷ 5	9 + 3	2 × 3	10 + 5
18 + 3	21 – 1	14 ÷ 7	6 + 3
15 × 3	9 × 2	20 ÷ 2	12 + 2

Order:
21 – 1, 20 ÷ 2, 10 + 5, 15 × 3, 45 ÷ 5, 9 + 3,
12 + 2, 14 ÷ 7, 2 × 3, 6 + 3, 9 × 2, 18 + 3.

Start this rhythm:

Click, clap, click, clap, click, clap, click.

Carry on the rhythm, what will you be doing on the 18th beat?

How do you know?

What will you be doing on the 40th beat?
Explain your answer.

Stamps are multiples of three.
On the 18th beat, I will be stamping because 18 is a multiple of 3.
On the 40th beat, I will be clapping.
I know the 39th is clicking and a stamp comes after this.

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45 ÷ 5	9 + 3	2 x 3	10 + 5	18 + 3	21 − 1
14 ÷ 7	6 + 3	15 x 3	9 x 2	20 ÷ 2	12 + 2

45 ÷ 5	9 + 3	2 x 3	10 + 5	18 + 3	21 − 1
14 ÷ 7	6 + 3	15 x 3	9 x 2	20 ÷ 2	12 + 2