KS2 Fluency Weekly Plan

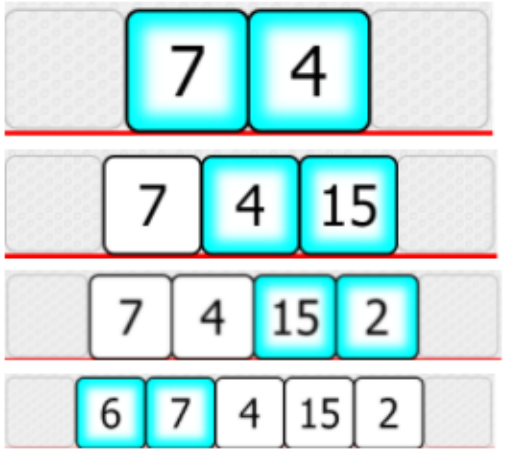
Game/activity/challenge

Play: Prime pairs game

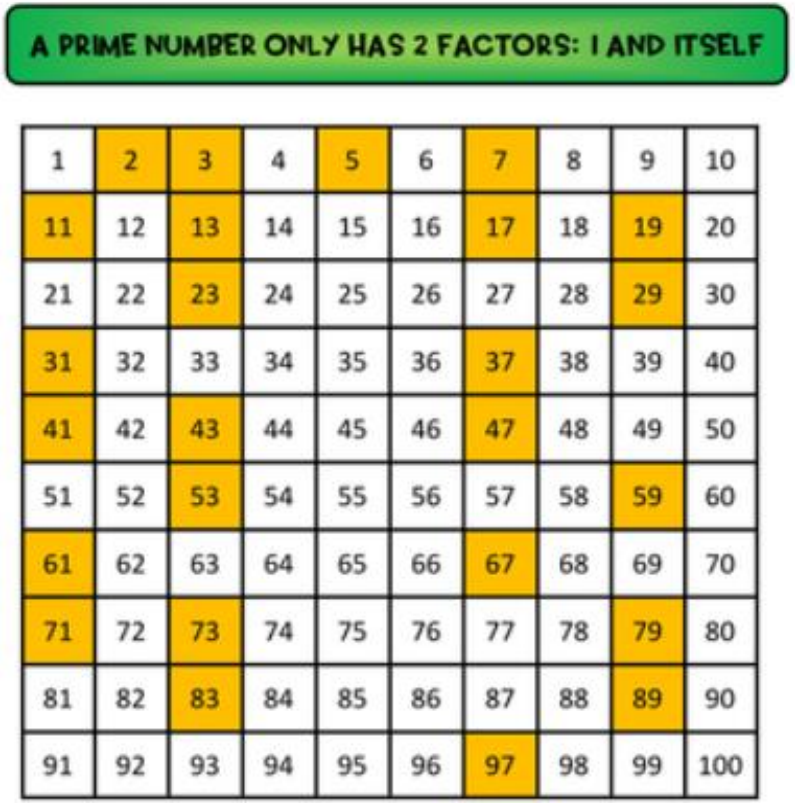
You will need a set of number cards to 18.

1	4	7	10	13	16
2	5	8	11	14	17
3	6	9	12	15	18

Player 1 chooses two cards that add up to a prime number. Player 2 then has to place another number card either side of that pair, so that the adjacent pair adds up to a prime number also. And so on. E.G:



Representation:



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

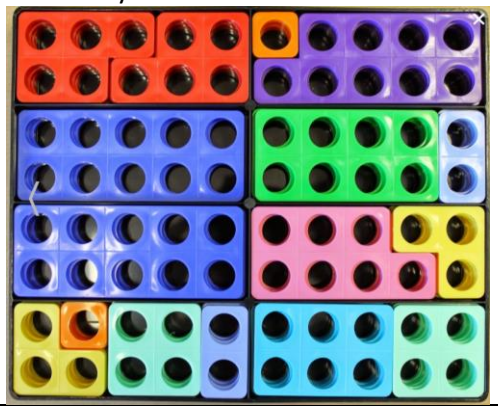
Abstract:

Prime numbers to 100:

___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___,

___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___,

Objective:	Key Learning Point:	Key equipment:
	Representation – 3 minutes	**Application Task – 7 minutes**
Monday **Vocabulary development & Familiarisation**	Introduce the following maths words of the week: factor | divisible | prime (Orange = word to be carried to following week) Introduce the representation. Follow the instructions (I do / we do…)	Use the following stem sentence (using key words): ***A prime number only has two factors: 1 and itself.*** ***A prime number is only divisible by 1 and itself.*** Play: Prime pairs game
Tuesday **Representation & Practice**	Highlight and address the tricky points: There are 25 prime numbers up to 100. BUILD the representation using: - one hundred square - blank one hundred square - build each of the prime numbers using dienes	Use the following stem sentence (using key words): ***A prime number only has two factors: 1 and itself.*** ***A prime number is only divisible by 1 and itself.*** Play: Prime pairs game
Wednesday **Talk for Maths**	Model a maths story: Jonah has 3 bags of apples. Each bag contains 11 apples. He says the total amount of apples is a prime number. Is Jonah correct? Could this type of story EVER be correct?	In pairs make up a maths story where the character in the story IS correct

<table>
<tr>
<td>Thursday
Application & Variation</td>
<td>What do you notice?
  </td>
<td>Play: Prime pairs game</td>
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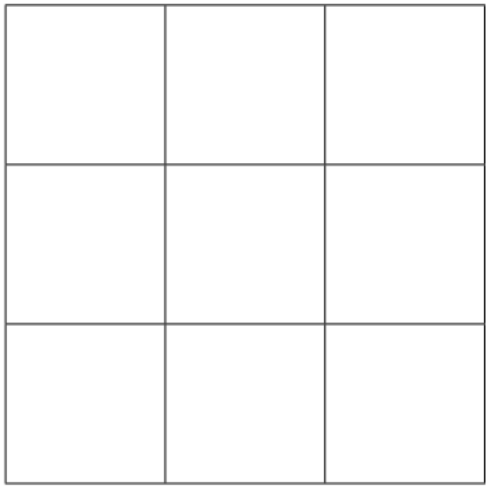
<tr>
<td>Friday
Application & Talk for Maths</td>
<td>New game:
Place the numbers 1, 2, 3,..., 9 one on each square of a 3 by 3 grid so that all the rows and columns add up to a prime number.
  </td>
<td>Use the following stem sentence (using key words):

A prime number only has two factors: 1 and itself.

A prime number is only divisible by 1 and itself.

Discussion of Key Point OR Review of game strategy –
● Is it possible to place the numbers 1, 2, 3,..., 9 one on each square of a 3 by 3 grid so that the diagonals, as well as all rows and columns, add up to prime numbers?</td>
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<tr>
<td colspan="2">Representations / Talk
Mathsbot.com
Nrich number talks
http://ntimages.weebly.com/photos.html</td>
<td>Games –Online links
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