Varied Fluency
Step 3: Add 3-digit and 1-digit Numbers

National Curriculum Objectives:

Mathematics Year 3: (3C1) Add and subtract numbers mentally, including three-digit number and ones

Differentiation:

Developing Questions to support adding 3-digit and 1-digit numbers where exchanging is involved. Using base 10, number lines and numerals.
Expected Questions to support adding 3-digit and 1-digit numbers where exchanging is involved. Using place value counters, number lines, numerals and words.
Greater Depth Questions to support adding 3-digit and 1-digit numbers where exchanging is involved. Using numerals and words. No pictorial representations.

More resources which follow the same small steps as White Rose.

Did you like this resource? Don't forget to review it on our website.

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Varied Fluency – Add 3-digit and 1-digit Numbers

1a. Use the Base 10 equipment to help you solve:

224 + 7

D VF

1b. Use the Base 10 equipment to help you solve:

147 + 5

D VF

2a. Use the Base 10 chart to solve the calculations below.

a)

b)

D VF

2b. Use the Base 10 charts to solve the calculations below.

a)

b)

D VF

3a. Use the number lines to help you solve the following calculations:

a) 265 + 6

b) 184 + 7

c) 354 + 9

D VF

3b. Use the number lines to help you solve the following calculations:

a) 114 + 8

b) 288 + 3

c) 178 + 5

D VF

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Varied Fluency – Add 3-digit and 1-digit Numbers

4a. Use the place value counters to help you solve:

427 + 5

VF

4b. Use the place value counters to help you solve:

688 + 3

VF

5a. Use the place value charts to solve the calculations below.

a)

H	T	O
●●● ●●	●●●	●●● ●●

+

H	T	O
		●●● ●●●

b)

H	T	O
●●●● ●●●●	●●● ●●	●●● ●●●

+

H	T	O
		●●●● ●●●

VF

5b. Use the place value charts to solve the calculations below.

a)

H	T	O
●●	●●●●	●●●● ●●●● ●

+

H	T	O
		●●

b)

H	T	O
●●● ●●	●	●●● ●●

+

H	T	O
		●●● ●●●

VF

6a. Use the number lines to help you solve the following calculations:

a) 768 + 5

768

b) 383 + 8

383

c) 235 + 9

235

VF

6b. Use the number lines to help you solve the following calculations:

a) 356 + 8

356

b) 722 + 9

722

c) 586 + 5

586

VF

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Varied Fluency – Add 3-digit and 1-digit Numbers

7a. Solve the calculations below:

a) 568 + 5

b) 688 + 8

c) 402 + 9

GD VF

7b. Solve the calculations below:

a) 369 + 3

b) 766 + 5

c) 923 + 8

GD VF

8a. Use column addition to solve the calculations below.

a)
```
  3 5 4
+     8
-------
[ ][ ][ ]
```

b)
```
  8 8 7
+     5
-------
[ ][ ][ ]
```

GD VF

8b. Use column addition to solve the calculations below.

a)
```
  9 5 8
+     7
-------
[ ][ ][ ]
```

b)
```
  6 8 4
+     6
-------
[ ][ ][ ]
```

GD VF

9a. Use the number lines to help you solve the following calculations:

a) 245 + 5

b) 476 + 7

c) 835 + 9

GD VF

9b. Use the number lines to help you solve the following calculations:

a) 765 + 8

b) 834 + 7

c) 919 + 9

GD VF

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Developing

1a. 231
1b. 152
2a. a) 132 + 9 = 141, b) 334 + 7 = 341
2b. a) 223 + 8 = 241, b) 417 + 4 = 421
3a. 271, 191, 363
3b. 122, 291, 183

Expected

4a. 432
4b. 691
5a. a) 535 + 6 = 541, b) 856 + 7 = 863
5b. a) 249 + 2 = 251, b) 515 + 6 = 521
6a. 773, 391, 244
6b. 364, 731, 591

Greater Depth

7a. a) 573, b) 696, c) 411
7b. a) 372, b) 771, c) 931
8a. a) 362, b) 892
8b. a) 965, b) 690
9a. a) 250, b) 483, c) 844
9b. a) 773, b) 841, c) 928

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