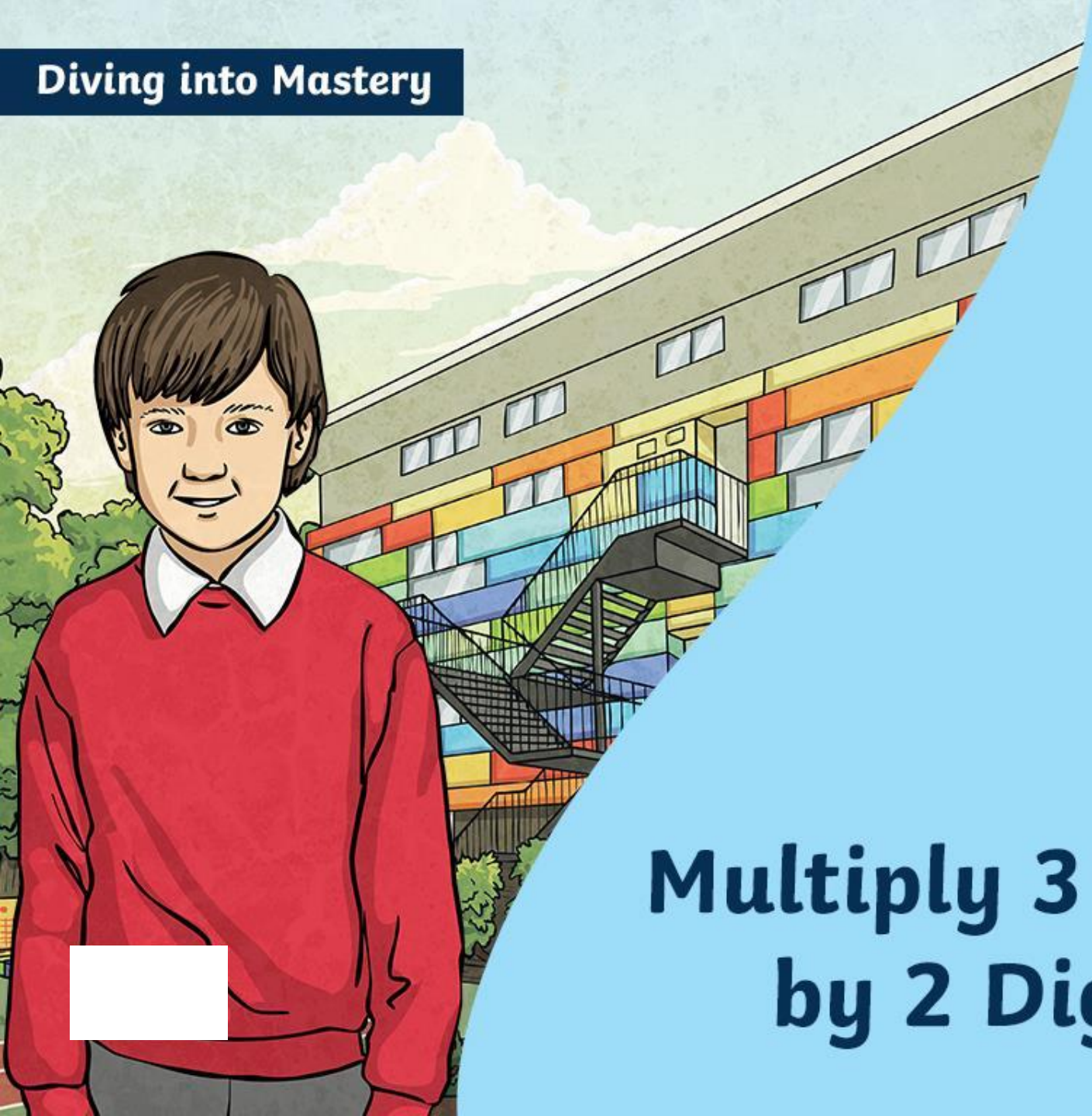
Diving into Mastery



Multiply 3 Digits by 2 Digits

REGENT STUDIES
Focused education on life's walk
www.regentstudies.com

Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:

Diving

Deeper

Deepest

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

REGENT STUDIES
Focused education on life's walk
www.regentstudies.com

Aim

- Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.

REGENT STUDIES
Focused education on life's walk
www.regentstudies.com

Multiply 3 Digits by 2 Digits

Diving

Complete these calculations using long multiplication.

328 × 73 = 23 944

		3	2	8	
	×		7	3	
		9	8 (2)	4	(328 × 3)
2	2 (1)	9 (5)	6	0	(328 × 70)
2	3	9	4	4	
	(1)	(1)			

357 × 21 = 7497

	3	5	7	
×		2	1	
	3	5	7	(357 × 1)
7 (1)	1 (1)	4	0	(357 × 20)
7	4	9	7	

REGENT STUDIES
Focused education on life's walk
www.regentstudies.com

Multiply 3 Digits by 2 Digits | **Diving**

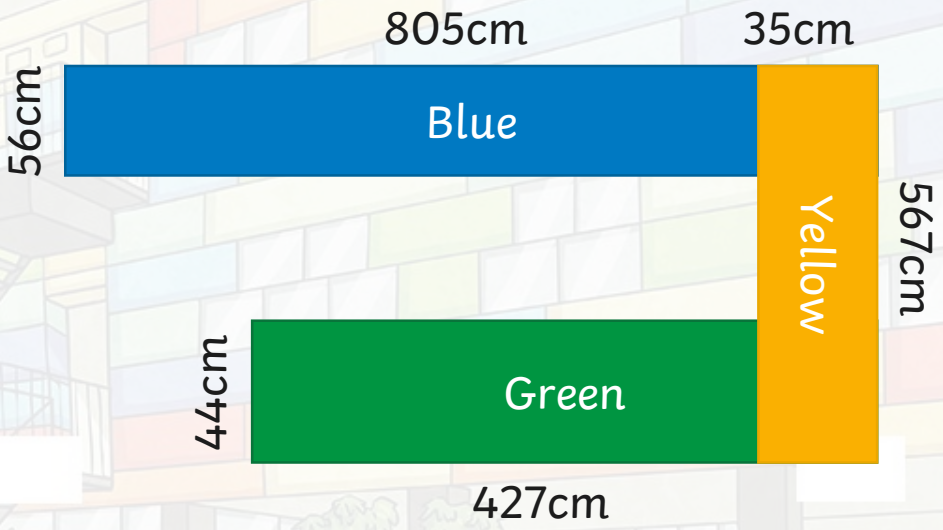
Ms Green, the Twinkl School site manager, is working out the area of the class flowerbeds ready for the children to plant some seeds.

What is the area of each flower bed?

Green = **18 788cm²**

Blue = **45 080cm²**

Yellow = **19 845cm²**



REGENT STUDIES
Focused education on life's walk
www.regentstudies.com

Multiply 3 Digits by 2 Digits

Deeper

Alex has been practising long multiplication. For each question, spot the mistake he has made and explain where he has gone wrong. Then, complete the calculation and work out the correct answer.

		4	3	5
	×		2	6
	2	6 (2)	1 (3)	0
	8	7 (1)	0	0
1	1 (1)	3	1	0

Alex has not used zero as a placeholder when calculating 5 × 20, so the answer to this has been recorded as 10 rather than 100.

		2	4	5
	×		7	3
		7 (1)	3 (1)	5
1	7 (3)	1 (3)	5	0
1	7	8	8	5

Alex did not record the regrouped ten from 5 × 3.

REGENT STUDIES
Focused education on life's walk
www.regentstudies.com

Multiply 3 Digits by 2 Digits — Deeper

Twinkl Primary School is ordering stationery ready for September.

357 boxes of pencils and 223 boxes of pens are ordered. Pens come in boxes of 26 and pencils come in boxes of 34.

How many pencils have they ordered altogether?

357 × 34 = 12 138

What is the total number of pens that they ordered?

223 × 26 = 5798

REGENT STUDIES
Focused education on life's walk
www.regentstudies.com

Multiply 3 Digits by 2 Digits

Deepest

Identify the missing digits in these calculations.

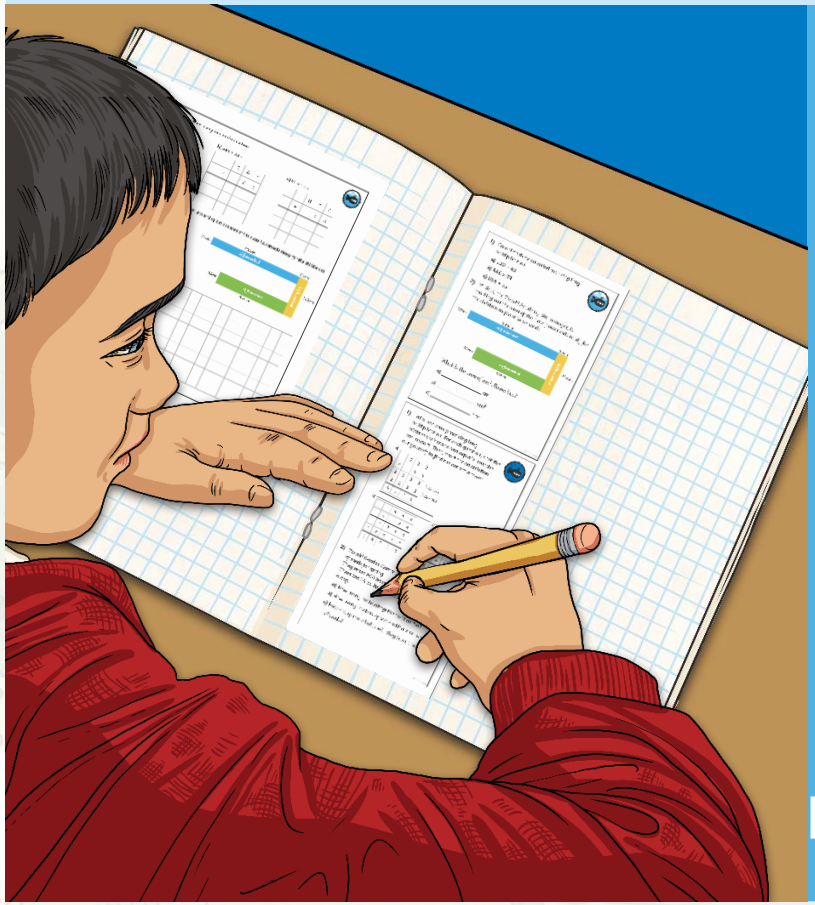
	2	4	**5**
×		3	6
1	4 (2)	**7** (3)	0
7 (1)	**3** (1)	5	0
8	8	**2**	0
	(1)		

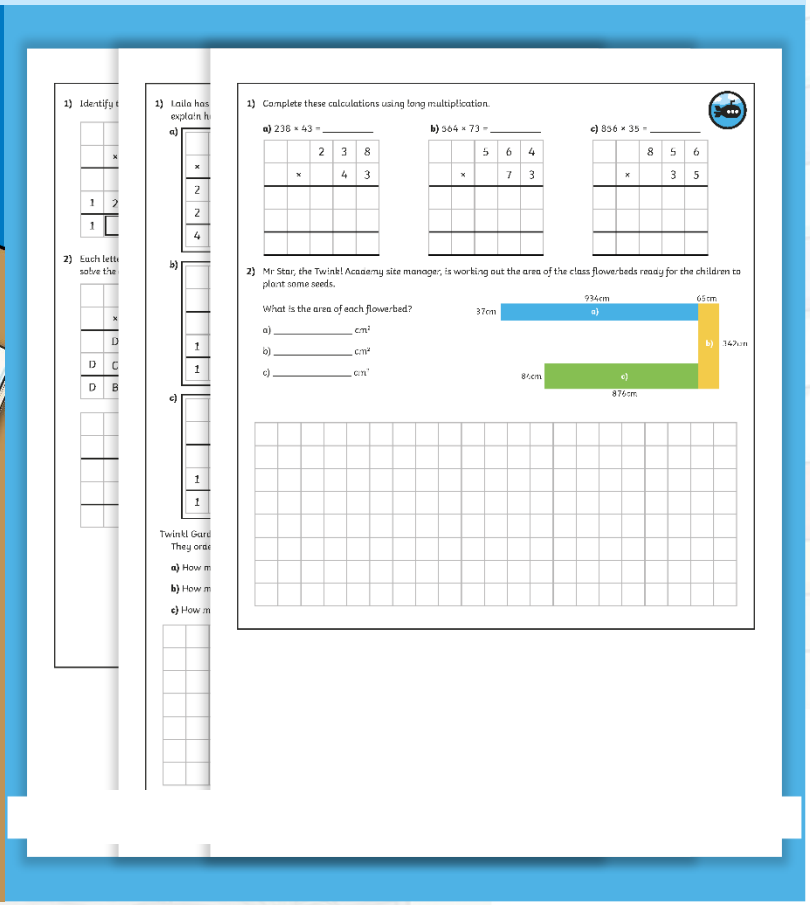
		6	2	7
	×		4	**2**
	1	**2**	5 (1)	4
2	5 (1)	0 (2)	**8**	0
2	**6**	3	3	**4**

REGENT STUDIES
Focused education on life's walk
www.regentstudies.com

Multiply 3 Digits by 2 Digits

Dive in by completing your own activity!





1) Complete these calculations using long multiplication.

a) 238 × 43 = _____

		2	3	8
	×		4	3

b) 964 × 73 = _____

		9	6	4
	×		7	3

c) 856 × 35 = _____

		8	5	6
	×		3	5

2) Mr Star, the Twinkl Academy site manager, is working out the area of the class flowerbeds ready for the children to plant some seeds.

What is the area of each flowerbed?

a) _____ cm²

b) _____ cm²

c) _____ cm²

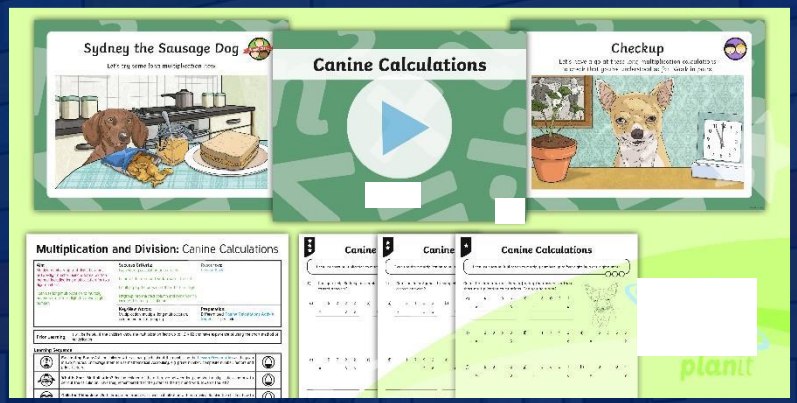
REGENT STUDIES
Focused education on life's walk
www.regentstudies.com

Need Planning to Complement this Resource?

National Curriculum Aim

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.

For more planning resources to support this aim,



REGENT STUDIES
Focused education on life's walk
www.regentstudies.com

REGENT STUDIES
Focused education on life's walk
www.regentstudies.com