About this Resource:

This resource is aimed at Year 3 Secure and has been designed to give children the opportunity to consolidate the skills they have learned in Autumn Block 1 Place Value.

The questions are based on a selection of the same 'small steps' that are addressed in the block, but are presented in a different way so children can work through the pack independently and demonstrate their understanding and skills.

Small Steps:

Hundreds Represent numbers to 1,000 100s, 10s, 1s (1) Number line to 1,000 Find 1, 10, 100 more or less than a given number Order numbers Count in 50s

National Curriculum Objectives:

Mathematics Year 3: Identify, represent and estimate numbers using different representations Mathematics Year 3: Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Mathematics Year 3: Compare and order numbers up to 1000 Mathematics Year 3: Read and write numbers up to 1000 in numerals and in words Mathematics Year 3: Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Mathematics Year 3: Solve number problems and practical problems involving these ideas

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Reasoning and Problem Solving - Year 3 - Teaching Information

<u>Reasoning and Problem Solving – Place Value Consolidation – Year 3</u> <u>Escape From Theta</u>

Rocano rubbed his head. He was locked in a cell! He found the secret pouch in his belt. Princess Ota had given him notes to help him escape. He read the first one.

Rocano, look at the wall! You will see numbers scratched into it. Solve the clues along the bottom! When you have an answer to a clue, look up that column of bricks and cross off the brick which is at the same height as the number of your answer. When they are all crossed off, push the bricks and a secret door will open!

Princess Ola

1. Solve the clues and cross off the correct bricks! Princess Ota has done the first one to help.

1000				- and			
900							
800							
700							
600	X						
500							
400							
300							
200							
100							
0							
	6 x 100	3 x 100	7 x 100	1 x 100	5 x 100	9 x 100	4 x 100

Escape From Theta - A Way Out

Rocano pushed the bricks. There was a creak, a rumble, and the secret door slid open! Outside the cell were 6 stairways he could go down. Which should he choose?

2 Rocano, look out of the windows! You'll ******** be able to see Thetan soldiers lined up in 100s, 10s and 1s. I've written down how many you should be able to see through ******** each window. If the numbers don't match, that means some soldiers are guarding that stairway! Only go down 3 4 the stairs where the number of soldiers matches the number I have written! Window 1: 285; Window 2: 840; Window 3: 189; Window 4: 932; Window 5: 645; Window 6: 882 6 5 Princess Ola. ÷. 2. Which view matches the letter?

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Rocano dashed down the empty staircase. As he reached the bottom, he stopped. His escape was blocked again. Six locks held a huge door shut. How could he open them?

Rocano, to open the locks you must slide the black pegs into the correct places on the number lines. The number for each lock is 620 • 310 • below. Remember to look at the scale of each line! The number will be in a different place on each line! 480 • Princess Ota. Look at the number for each lock. Mark that number with a circle in the correct place on each of the three 560 • 190 • number lines.

Escape From Theta - Tread Carefully

Rocano burst through the door and into the next room. As his foot stepped down onto the tiled floor, it disappeared! The tile he had trodden on broke apart and fell out of sight into a deep pit. Rocano caught himself on the edge and pulled himself up. Phew! How could he get past this?



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Rocano stepped off the final tile and was about to run to the gate when something shiny caught his eye. It was Thetan gold! Thetan gold comes in blocks of 100 pieces, 10 pieces or 1 piece. There were 6 boxes of gold, but Rocano could only carry 3 boxes away with him. He had to make sure he got as much gold as possible!



<u> Escape From Theta – Passwords Please</u>

After hiding the gold, Rocano walked towards the gate. He was nearly free; just a few more steps... "Stop right there!" A Thetan soldier in a gold helmet appeared and pointed his spear at Rocano. "Anyone leaving Theta must say 'always', 'sometimes', or 'never' to six sentences! If you get any wrong, this gate stays shut!"

Write 'Always', 'Sometimes' or 'Never' under each question and help Rocano escape!



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<u>Reasoning and Problem Solving – Place Value Consolidation – Year 3</u>

1. Solve the clues and cross off the correct bricks! Princess Ota has done the first one to help!

2. Which view matches the letter? View 5.

3. Look at the number for each lock. Mark that number with a circle in the correct place on each of the three number lines.

625	317		
489	927		
193	564		

Answers can be approximate as long as they are on the correct half of each number line.

4. Circle the correct tile for each step to show the safe way across the falling floor!





Start here and head upwards

5a. Put the boxes in order from most gold to least gold. Box 1 (344), Box 5 (300), Box 2 (299), Box 6 (298), Box 3 (246), Box 4 (218).

5b. Which three boxes should Rocano take? Box 1, Box 5 and Box 2.

- 6a. Never
- 6b. Sometimes
- 6c. Always
- 6d. Never
- 6e. <mark>Always</mark>
- 6f. Sometimes

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Reasoning and Problem Solving – Year 3 – Consolidation Pack – Secure ANSWERS