

# Patterns in Skip Counting

AC9M1A01\_E3 Recognising the patterns in sequences formed by skip counting; for example, that skip counting in fives starting from zero always results in either a 5 or zero as the final digit.

**Learning Intention:** We can spot the patterns in skip counting, like fives always ending in 5 or 0.

## See the Pattern in the Columns

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 |
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
| 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |

## Spot the Pattern

- Skip count by 5s from 0: 5, 10, 15, 20, 25 ...
- The last digit is always 5 or 0.
- Count by 10s: the last digit is always 0.
- Count by 2s: the last digit is 0, 2, 4, 6 or 8.
- Look down the chart columns to see it repeat.

## Colour Key

-  Count by 2s — ends 0, 2, 4, 6, 8
-  Count by 5s — ends in 5 or 0
-  Count by 10s — ends in 0

## Fives always end in 5 or 0

5

10

15

20

25

30

35

40

45

50

Skip count by 5s from zero: the last digit repeats 5, 0, 5, 0 ...