Place Value: reSolve Garden

**(Y1)**

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| To read the most recent version of this task, download associated resources, and view embedded professional learning including classroom videos and work samples, visit: [https://resolve.edu.au/teaching-sequences/year-1/place-value-resolve-garden](https://resolve.edu.au/teaching-sequences/year-1/place-value-resolve-garden?utm_source=docx&utm_medium=sequence_overview&utm_campaign=resolve-garden) |

# Sequence Overview

## About this sequence

Students learn that 10 ones can be grouped together to form a unit of 1 ten, and they apply this knowledge to two-digit numbers.

## Australian Curriculum: Mathematics (Year 1)

### Achievement standard

Students connect number names, numerals and quantities, and order numbers to at least 120. They demonstrate how one- and two-digit numbers can be partitioned in different ways and that two-digit numbers can be partitioned into tens and ones. Students partition collections into equal groups and skip count in twos, fives or tens to quantify collections to at least 120.

### Number

AC9M1N01 - Recognise, represent and order numbers to at least 120 using physical and virtual materials, numerals, number lines and charts

AC9M1N02 - Partition one- and two-digit numbers in different ways using physical and virtual materials, including partitioning two-digit numbers into tens and ones

AC9M1N03 - Quantify sets of objects, to at least 120, by partitioning collections into equal groups using number knowledge and skip counting

# Tasks in this sequence

## Task 1 • How many seeds?

Students learn that grouping individual items into units helps us to keep track of the count and facilitates efficient counting strategies.

## Task 2 • Making tens

Students learn to group 10 ones to form a unit of 1 ten.

## Task 3 • Planting seeds

Students learn to connect the number of tens in a collection to the number of ones.

## Task 4 • Planting 50

Students build their understanding that 10 ones can be grouped to form a unit of 1 ten.

## Task 5 • Planting more seeds

Students learn to trust that a unit of 1 ten will always contain 10 ones.

## Suggested implementation

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|  | **Week 1** | **Week 2** |
| **Monday** | **Task 1 • How many seeds?*** Launch and Explore
* Connect
* Summarise
 | **Task 4 • Planting 50*** Play the game Planting 50
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| **Tuesday** | **Task 2 • Making tens*** Launch and Explore
* Gallery walk
* Connect
* Summarise
 | **Task 3 • Planting seeds*** Launch and Explore
* Connect
* Summarise
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| **Wednesday** | **Task 2 • Making tens*** Complete Task 2 again with a different packet of seeds
 | **Task 5 • Planting more seeds*** Launch and Explore
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| **Thursday** | **Task 3 • Planting seeds*** Launch and Explore
 | **Task 5 • Planting more seeds*** Connect
* Summarise
 |
| **Friday** | **Task 3 • Planting seeds*** Connect
* Summarise
 | **Task 4 • Planting 50*** Play the game Planting 50
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