**Number:** Numeration and Counting

**7. Number 5**

This unit introduces the number 5. Children begin by using their Maths Eyes to identify places where they have seen the number 5 before, in its different representations. They then move on to reading and writing it, and eventually to counting out sets of 5 and subitising sets of 5. Finally, the unit explores the different components of 5, putting down the building blocks for simple addition within 5 and partitioning.

**Unit Information**

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| **Learning Outcome(s)** | **Numeration and Counting**:develop an awareness that the purpose of counting is to quantify. |
| **Maths Concept(s)** | * Quantities can be subitised and compared without needing to count or assign a numerical value.
* There are five principles of counting: one-to-one, stable order, cardinal, order irrelevance and abstraction.
* The last number in the count indicates the quantity in a set.
* There are a range of counting strategies, including grouping objects and arranging objects in various visual configurations.
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| **Maths Language** | Number, Number before, Number after, Numbers 1–5, ‘How many?’, ‘What do you see?’, Odd one out, Same, Different |
| **Prior Knowledge** | * Number names 1–5
* Reading and writing numbers 1–4
* Ability to count sets 1–4
* Standard dice arrangements 1–4
* Counting sequence 1–5
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| **Potential Misconceptions** | * Children might confuse the numbers 2 and 5.
* Children may write ‘S’ instead of the number 5.
* Children might no not understand the correspondence between the number names and how many items there are when counting. These children would benefit from additional revision on one-to-one correspondence.
* Children might mix up the order of numbers.
* Children might have issues with number reversal.
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**Unit Overview**

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|  | **Lesson 1** | **Lesson 2** | **Lesson 3** | **Lesson 4** | **Lesson 5** |
| **Focus of New Learning** | Recognise 5. | Write 5. | Count and subitise 5. | Explore the components of 5. | Weekly review. |
| **Slides** | 7.1 | 7.2 | 7.3 | 7.4 | 7.5 |
| **Book** |  | p.18 | p.18 |  | p.19 |
| **Concrete Resources** | Dice, cubes, whiteboards/ copybooks, dice, 5 frames, coloured counters |
| **Digital Resources** | 7. Number pack: 57. Number 5 Printables |

**Lesson 1: Recognise 5.**

Teaching Slides 7.1

**Resources**

Dice

**Learning focus**

In this lesson, children recognise the quantity 5 and connect it to the number (numeral) 5. Children start by being shown different pictorial representations of 5 and are asked what all of them have in common. At this point, introduce the number 5 and ask children to read it. Prompt children to use their Maths Eyes to identify situations where they have seen the number 5 or groups of 5.

Ask children ‘Where have you seen 5?’, ‘Can you think of other examples of 5?’ Start a discussion on the number 5, what it represents, and where we might see it in real life.

Within this lesson, it might be useful to revise the number sequence 1–4, and model counting up to 5, with an emphasis on discussing the number before and after each number. Use dice, cubes and counters to explore different ways to show 5.

The digital resource ‘Number pack: 5’ contains a song, poem, video, game, etc. and can be used throughout the week to support instruction.

**Key questions/Maths Talk**

* Have you seen the number 5 before?
* Do you know anyone who is 5 years old?
* Where can you see 5?
* Can you think of other ways to show 5?
* How do you know this is the number 5?

**Differentiation**

* Support **struggling learners** by showing the number 5 dice pattern on the board.
* Challenge **advanced learners** by asking them to use counters to show 5 in different ways. (e.g. horizontally, vertically, diagonally, stacked, etc.)

**Hands-on activities/Games**

* \***Number 5 poster**:Ask children to draw different representations of 5 on sticky notes or on a piece of paper. Encourage them to use fun colours, to include all of the examples discussed in the lesson, or even to come up with their own groups of 5. Use the sticky notes to make a class poster for the number 5. This activity can be repeated for each new number learned and displayed on the classroom walls for children to refer to throughout the year.
* \***Number 5 treasure hunt**: Take children on a treasure hunt for number 5. Where can they find 5? Encourage them to use their Maths Eyes to identify different ways the number 5 is around them. Ask: ‘Can you spot a group of 5 objects?, A door number?’ Encourage children to keep track of their 5 ‘loot’ by drawing it in their copybooks and to share their findings with the class*.*

*\*Suitable for station teaching*

**Lesson 2: Write 5.**

Teaching Slides 7.2 | Student Book p.18

**Learning focus**

In this lesson, children will learn and practise how to write the number 5. Take your time modelling how to write 5, starting by tracing it in the air with a finger. Give the class ample opportunities to practise this. Introduce the ‘**say it, write it, check it**’ system: encourage children to say the number name, write it and then compare their written number to the number on the board. (This is a great opportunity to revise the writing of the numbers 1–4 as well. If your class needs it, take some time to go through each number, model tracing it, and ask children to practise writing it in the air with their finger.)

Play the song ‘Five Little Speckled Frogs’ from the digital resource ‘7. Number pack: 5’. The song is also embedded in the slides. Ask children to trace each digit in the air with their fingers.

The digital resource ‘7. Number pack: 5’ contains a number 5 video, a formation video, a song and a game. It can be used throughout the week to support instruction.

**Key questions/Maths Talk**

* How can we write 5?
* Where do we start?
* What do we do next?
* What does number 5 look like?
* How can we recognise the number 5?

**Differentiation**

* Support **struggling learners** by providing visual representations of 5, or with additional number formation practice. The ‘Rainbow numbers’ activity below provides some nice opportunities for this.
* Challenge **advanced learners** by asking them to draw sets of 5.

**Hands-on activities/Games**

* **Rainbow numbers**: Ask children to write the number 5 multiple times, using a different crayon each time.

**Lesson 3: Count and subitise 5.**

Teaching Slides 7.3 | Student Book p.18

**Learning focus**

This lesson focuses on counting and identifying (subitising) sets of five. This lesson also reinforces recognition of five arrangements, starting with the standard dice arrangement, and building to other common ones.

In the teaching slides, children are shown sets of five items, in different pictorial arrangements. Model counting the items in each set to find out that they are made up of five items. Reiterate the fact that the last number we count is the total number of items in the set. Encourage children to point to each item as they count*. ‘***Point and move**’ could be explored for those children who are struggling with counting one-to-one. Children can apply this learning to identify the odd one out (the only set that doesn’t have five items).

Once this skill is established, tell children that they might have developed a superpower: they might be able to see 5 without counting. Start by showing them the standard dice arrangement for 5. Ask them how they know how many the dice is showing. Encourage children to test their superpower with the slide activity.

**Key questions/Maths Talk**

* What do you notice about these sets?
* How many are in each set?
* How do you know your answer is right?
* How can you check your answer?
* Can you find the odd one out? Why is it the odd one out?
* How many is that; can you tell without counting?
* Which set has five items?

**Differentiation**

* Support **struggling learners** by providing them with cubes or 5 frames if available, and by allowing them time to think and see the sets for longer.
* Challenge **advanced learners** by encouraging them to think about the components of five. What ways can we make five? When subitising, change the dot patterns so they are not uniform to the dice.

**Hands-on activities/Games**

* \***Find 5**: Children play in pairs with counters. They take turns at making two sets: one set of 5 counters and one set of 1–4 counters. Their partner needs to say which one is 5. Every time one of them guesses correctly, they get one point. The child who gets to 5 points first wins.
* \***Towers**: Children play in pairs with tower blocks. They take turns making towers of 1, 2, 3, 4 and 5 blocks. They then hide one of the towers. Their partner needs to say which number tower has been hidden.

*\*Suitable for station teaching*

**Lesson 4: Explore the components of 5.**

Teaching Slides 7.4

**Resources**

5 frames, counters

**Learning focus**

In this lesson, children continue to develop the understanding that all numbers are made up of smaller numbers. Start by showing a word problem, e.g. ‘Ted has 5 marbles. He wants to share them with his friend Mia. How can they share the marbles?’ Encourage children to think about all the ways in which the marbles could be shared. Model solving the problem, starting with 4 and 1 make 5. Hand out 5 frames and sets of counters of different colours, and model showing 4 and 1 make 5 with counters.

Ask children to use the counters to show different solutions to the problem. Encourage children to record their answers on their whiteboards/copies. While children may have not encountered the number 0 yet, this lesson could also be an opportunity to introduce the story of 5.

**Key questions/Maths Talk**

* What numbers make 5?
* Can you think of other ways to make 5?
* How do you know you are right?
* How can you check your answer?
* How many ways of making 5 can you find?

**Differentiation**

* Support **struggling learners** by giving them five counters and a magic cloth to physically hide some counters on a 5 frame. Help them realise that five is the number we are focusing on here. Explore counting the counters many times before asking how many more we need to make five. Reinforce their cardinal number sense before encouraging them to explore ways of figuring out what amount is missing if we hide some components of the set. You can also repeat this using fingers or cubes.
* Challenge **advanced learners** by encouraging them to explore different ways to fill the 5 frames, e.g. by using counters of three different colours instead of two. You can also challenge them to identify 5 and 0 as additional components of 5.

**Hands-on activities/Games**

* \***Using number cards**: Children play in pairs. Provide them with number cards 1–5, shuffled. Children take turns picking two cards. If the total makes 5, they have to shout ‘Five!’ and get a point. The first one who gets 5 points, wins.
* \***The changing towers**: Children play in pairs, taking turns to build a tower made of 5 blocks. One child closes their eyes, and the other takes away some of the blocks. The partner has to guess how many blocks were taken away.
* **The missing bears**: Show children a scene with five bears. Tell them that all of the bears are in the garden playing. Take away some of the bears, telling children that those bears are going inside. How many bears are left in the garden? Repeat this to explore all components of five. You can use a different context for this activity, depending on which soft toys or objects are available.

*\*Suitable for station teaching*

**Lesson 5: Weekly revision.**

Teaching Slides 7.5 | Student Book p.19

**Resources**

Cubes, counters

**Learning focus**

In this lesson, children review what they have covered over the course of the week. It is a chance to focus on the aspects you feel your class might be struggling with the most. You can use this as extra practice for number formation, counting sets or subitising, depending on the children’s needs.

This lesson also links to the Student Book p.19, where children use learning from the week to draw a party for a 5-year-old.

**Key questions/Maths Talk**

* How many items are there altogether?
* How do you know?
* How can you check if there are 5?
* Can you recognise a set of 5 without counting?

**Differentiation**

* Support **struggling learners** by providing prompts about what they might see at a party. Ask children ‘What might you see 5 of? Let’s count!’
* Challenge **advanced learners** by asking them to think about the book activity in terms of the components of 5: ‘If I have 3 balloons, how many more do I need to make 5?’

**Hands-on activities/Games**

* \* **The feely bag**: Join some multilink cubes, making sure to include blocks of 1-5 cubes, and put them in a feely bag. Ask children to feel one of the blocks and try to guess how many cubes it is made out of. Then, ask children to take the block out of the bag and check if they were right.
* \***Double-sided counters**:Hand out a set of 5 double-sided counters to each child or pair of children. Children throw the counters on the table, then count how many are one colour and how many are the other (you may have counters that are red and blue, red and yellow, or any other colour combination). Did anyone get a set of counters landing in only one colour?
* **How many?**:Provide each child with a 5 frame and five counters or number cubes. Stomp your feet twice and ask children to show that number on the 5 frame using counters. Repeat with different numbers to 5, asking children to come to the front of the class and represent the numbers to 5 using actions or sounds for the class to show on 5 frames.

*\*Suitable for station teaching*