Number and Place Value:
Read and Write Numbers to 1 000 000

Aim:	Success Criteria:	Resources:
Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. To read and write numbers up to at least 1 000 000.	I can read and write numbers up to 1 000 000 in words. I can read and write numbers up to 1 000 000 in digits. I can partition numbers up to 1 000 000. I can make numbers up to 1 000 000.	**Lesson Pack** Pack of playing cards – one per pair
	Key/New Words: Millions, thousands, hundreds, tens, ones, zero, place value, partition, digit.	**Preparation:** **Place Value Grid** - as required Differentiated **Rich List Activity Sheet** - one per child **Diving into Mastery Activity Sheets** - as required

Prior Learning: Children learned how to read and write numbers up to at least 100 000 in **Lesson One**. They used their knowledge of place value to compose and decompose up to five-digit numbers.

Learning Sequence

Remember It: Recognise the place value of each digit in four-digit numbers and compose and decompose four-digit numbers using standard and non-standard partitioning. Children compose and decompose numbers written in words and digits. They read, write and partition numbers with up to five digits.

Card Game: In pairs, children draw five cards from the pack and arrange them to make a number. The partner who makes the number that best fits the criteria on the **Lesson Presentation** is the winner. Repeat for the other slides showing different criteria.

The Rich List: Introduce the context of the lesson referring to the **Lesson Presentation**.

Reading Numbers: Children use place value counters to represent the value of digits within numbers up to one million. They read the visual and abstract representations of numbers shown on the **Lesson Presentation** and progress, entering given numbers into a place value grid. Can children make numbers up to 1 000 000?

Parts of Numbers: Explain how the number on the **Lesson Presentation** has been partitioned. Children partition the number on the following slide. Children are then shown the parts of a number. Children put these parts together to make a number. Can children partition numbers up to 1 000 000?

The Rich List Activity: Children complete the differentiated Rich List Activity Sheet, reading and writing the numbers in digits and in words. Can children read and write numbers to 1 000 000 in words? Can children read and write numbers to 1 000 000 in digits?

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Children read and write numbers up to 100 000 in digits and words. Use the **Place Value Grid** for support if required.	Children read and write numbers up to 1 000 000 in digits and words.	Children solve number puzzles to read and write numbers up to 10 000 000.

Diving into Mastery: Schools using a mastery approach may prefer to use the following as an alternative activity. 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.

Children represent numbers pictorially, in digits and in words.

Children progress to answer reasoning and problem-solving questions. They compose numbers from partitioned digits, recognising the place value of each digit in numbers up to one million.

Children answer multi-step problems in the context of money, identifying patterns and completing sequences in part-whole models.

Number Puzzles: Children talk to a partner to match the numbers in words and digits as shown on the **Lesson Presentation**. Choose children to click the boxes that they think match. If not, click the boxes again to have another try. If the boxes turn the same colour, they are a match.

Exploreit
 Playit: Children use these **Matching Number Cards** to match the numbers written in digits and in words.
 Loopit: Use these **Place Value Loop Cards** to practise reading six-digit numbers.
 Learnit: Use the **Knowledge Organiser** to explore different representations of numbers up to one million.