## Multiplication and Division: Doubling and Halving

## Aim:

To use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1 ; dividing by 1 ; multiplying together three numbers.

I can use halving and doubling as a strategy for mental multiplication and division.

| Success Criteria: |  |
| :--- | :--- |
| I can halve numbers by dividing them by 2. | Resources: <br> Lesson Pack |
| I can double numbers by multiplying them by 2. | Minute timers or stopwatches |
| I can use partitioning to halve and double larger <br> numbers. |  |
| I can create and continue halving and doubling <br> sequences. | Preparation: <br> Differentiated Doubling and Halving Activity <br> Sheets - 1 per pair <br> Digit Cards 0-9 - 1 per pair |
| Key/New Words: <br> Multiply, divide, halving, doubling, partitioning, <br> recombining, sequences. |  |

## Prior Learning:

It will be helpful if the children can halve and double numbers to 20 and can relate halving and doubling to multiplying and dividing by two.

## Learning Sequence

Darts: Split the class into two teams, or pair children up so they can play against a partner. Each team or child chooses
a colour; red or blue. Look at the darts board on the Lesson Presentation. The children add up the score from their
three darts by doubling and trebling numbers up to 20. Who will be the winner?

## Masterit

Practiseit: These $\qquad$ will help children to develop confidence in doubling two-digit numbers.
Explainit: Ask children to write a set of instructions for a younger child explaining how to halve and double large numbers by partitioning, calculating and recombining.

