



Multiplying Whole Numbers and Decimals Teaching Ideas

Learning Objective: To be able to multiply whole and decimal numbers by 10, 100 and 1000.

Success Criteria:

- To multiply whole numbers and decimals by 10, 100 and 1000.
- To multiply by 10, 100 and 1000 to solve problems.

Context: This lesson is intended as a stand alone lesson that builds on students' knowledge of place value, multiplication and decimals.

Starter

Students multiply small whole numbers by 10, 100 and 1000 and observe how digits' place value change under each operation. This prepares them for multiplying larger numbers and decimals by 10, 100 and 1000.

Main Activities

Activity Name: Multiplying Whole Numbers and Decimals by 10, 100 and 1000

Students are shown how to multiply by 10, 100 and 1000, by changing the place value of the digits; they are shown how to work through examples of each.

Activity Name: Now You Try

Pupils work individually through the [Multiplying Whole Numbers by 10 Activity Sheet](#), which gives them experience of all the sorts of questions, building carefully on skills accomplished. An [Answer Sheet](#) is also provided, which may be used as a mini plenary and/or for self-marking.

Plenary

To consolidate learning, have pupils use their knowledge of multiplying by 10, 100 and 100 to solve some real-life problems.