

Year 4 Decimals Knowledge Organiser

Graphical user interface

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I know how to multiply and divide whole numbers by powers of 10 and I can understand place value of decimals up to three decimal places.

**Sentence Stems**

It can’t be… because…

I noticed that…

It must be … because…

If…then…

This is different because…

This is the same because…

This is true here because…

I already know that… so…

**Misconceptions: Why?**

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**Star Vocabulary**

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| --- | --- |
| **Decimal** | A number that consists of a whole number and a fractional part. The decimal point separates the whole number from the fractional part. |
| **Decimal point** | A zero placed in a column to ensure that the other digits are in the correct columns. |
| **Equivalent** | Numbers that are written differently but represent the same amount. |
| **Centimetre** |  |
| **Millimetre** |  |

I can multiply and divide decimals by multiples of 10, 100 and 1,000. I can also convert between fractions and decimals; and multiply and divide decimals by whole numbers.

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Secure and maintain fluency in addition and subtraction within and across 10, through continued practice.

**Factual & Conceptual Fluency progression**

Recall the 2, 4 and 8 multiplication tables, and corresponding division facts.

Addition and subtraction within 10.

Recall the 7-multiplication table, and corresponding division facts.

Secure and maintain fluency in all multiplication tables, and corresponding division facts, through continued practice.

Recall the 11 and 12 multiplication tables, and corresponding division facts.

Recall the 3, 6 and 9 multiplication tables, and corresponding division facts.

Recall the 10 and 5 multiplication tables, and corresponding division facts.

Addition and subtraction across 10.