

HIAS MOODLE+ RESOURCE

Word cards

Year 9: Unit 9.1

Standard form

(square) root

Reciprocal

HIAS Maths Team
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Final version

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Overview

This document contains a resource to support the acquisition and accurate use of mathematical vocabulary

Points to consider when using this resource

These cards provide ideas to support the development of precise mathematical vocabulary by considering what a mathematical word means and what it does not mean; it also encourages the use of diagrammatic models and images to support understanding.

There are blank versions included for teachers and learners to create their own, alongside some examples of relevant topic words for each unit. Definitions can be checked in the NCETM National Curriculum Glossary

Word:

standard form

Example:

A human hair is about 4.5×10^{-5} m in diameter

Picture, diagram or model:

Ten thousands(10^4)
Thousands(10^3)
Hundreds(10^2)
Tens(10^1)
Ones(10^0)
Tenths($\frac{1}{10} = 10^{-1}$)
Hundredths($\frac{1}{100} = \frac{1}{10^2} = 10^{-2}$)
Thousandths($\frac{1}{1000} = \frac{1}{10^3} = 10^{-3}$)

Non-example:

26.4×10^5

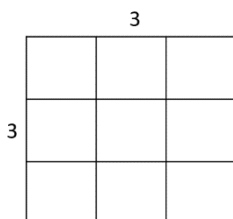
Word:

(square) root

Example:

$\sqrt{9}$

Picture, diagram or model:



Non-example:

9^2

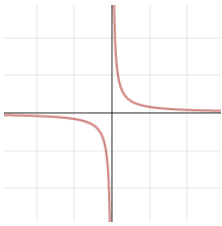
Word:

reciprocal

Example:

$\frac{1}{2}$ is the reciprocal of $\frac{2}{1}$

Picture, diagram or model:



This is the graph of the reciprocal function $y = \frac{1}{x}$

Non-example:

$\frac{1}{2}$ is equivalent to $\frac{2}{4}$

Word:

Example:

Picture, diagram or model:

Non-example:

Word:	Example:
Picture, diagram or model:	Non-example:

Word:	Example:
Picture, diagram or model:	Non-example:

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