

Essential Skills Wales

APPLICATION OF NUMBER

Important notes:

1. Each level of the skill incorporates and builds on the previous levels.
2. This document must be read in association with the documents 'Amplification of evidence requirements' and 'Application of Number Mandatory Definitions' which provide mandatory detail about each component and are a constituent part of the standards.

Level 4

This is about demonstrating your skills in:

- developing a strategy for using number skills
- monitoring your progress and adapting your strategy as necessary
- presenting the outcomes of your work
- evaluating your overall strategy.

NB You must provide at least one example of meeting the standard for N4.1, N4.2 and N4.3 in the context of one activity.

N4.1 Developing a strategy

You must provide evidence that you can:

N4.1.1

Develop a strategy for using number skills over an extended period of time.

In order to show that you are competent, you need to know how to:

- establish opportunities to use number skills
- clearly identify the outcomes you hope to achieve
- plan your use of number skills over an extended period of time
- make a reasoned choice of methods for achieving the quality of outcomes required, including:
 - formulating hypotheses, using models and other techniques to explore them
 - establishing methods for testing hypotheses
- identify relevant sources of information, including people and reference material, and research the information you need.

N4.2 Monitoring progress

You must provide evidence that you can:

N4.2.1

Monitor your progress and adapt your strategy, as necessary, to achieve the quality of outcomes required in work involving:

- deductive and inferential reasoning
- algebraic modelling.

In order to show that you are competent, you need to know how to:

- evaluate information from different sources, developing alternative lines of enquiry where appropriate
- carry out calculations to appropriate levels of accuracy, drawing on a range of numerical, graphical and other mathematical techniques involved in:
 - making measurements or observations, including use of compound units
 - reading and interpreting scale drawings, graphs, complex tables and charts
 - organising and classifying data
 - making inferences from sets of data
 - using numerical, graphical and algebraic methods to develop models
 - using ideas of proportion, variation and scaling, including inverse proportion and other non-linear variation
 - working with expressions, formulae and equations, including powers and roots
 - working with probability
 - making deductions in algebraic and spatial reasoning and applying these to your work
- monitor and critically reflect on your use of number skills including:
 - obtaining feedback from others
 - noting choices made and judging their effectiveness
- adapt your strategy as necessary to overcome difficulties and produce the quality of outcomes required.

N4.3 Presenting outcomes and evaluating strategy

You must provide evidence that you can:

N4.3.1

Present the outcomes of your work.

N4.3.2

Evaluate the effectiveness of your strategy, and identify ways to further develop your number skills.

In order to show that you are competent, you need to know how to:

- interpret results and identify the main findings from your work, including evidence to support your conclusions
- present information effectively, selecting appropriate methods to illustrate findings, including charts, graphs and diagrams
- explain results in relation to your work and hypotheses
- evaluate the effectiveness of your strategy, identifying factors that had an impact on the outcomes
- identify ways to further develop your number skills.

Access statement

Candidates with particular disabilities may be unable to show that they are competent by providing all their evidence in the form specified in these standards.

For such candidates, reasonable adjustments to the evidence requirements may be allowed in appropriate circumstances. In some cases, exemptions may be permissible. Further detail on reasonable adjustments and exemptions for candidates with particular disabilities can be found in a separate amplification document.