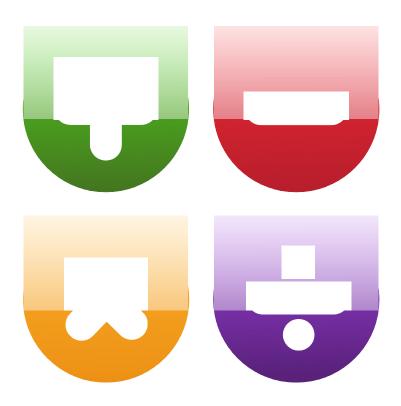
Unit Support Notes



H6BW 71 Number Skills: Number Processes (National 1)



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Please refer to the note of changes at the end of this document for details of changes from previous version (where applicable).

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Introduction

These support notes are not mandatory. They provide advice and guidance on approaches to delivering and assessing the *Number Skills: Number Processes* Unit. They are intended for teachers and lecturers who are delivering this Unit. They should be read in conjunction with:

- ♦ the *Unit Specification*
- the Unit Assessment Support pack

General guidance on the Unit

Aims

The aim of this Unit is to provide learners with opportunities to use basic number processes including carrying out calculations.

The Unit also provides a framework for learners to develop knowledge and skills for learning, skills for life and skills for work.

Progression into this Unit

Entry to this Unit is at the discretion of the centre.

This Unit has been designed to draw on and build on Curriculum for Excellence experiences and outcomes.

This Unit would be suitable for learners who have successfully completed qualifications in related areas at SCQF level 1. Relevant experiences and outcomes may also provide an appropriate basis for doing this Unit.

Skills, knowledge and understanding covered in this Unit

If this Unit is being delivered on a free-standing basis, teachers and lecturers are free to select the skills, knowledge, understanding and contexts which are most appropriate for delivery in their centres.

Learners who complete this Unit will be able to use basic number processes.

Progression from this Unit

This Unit may provide progression to:

- other Units in Number Skills at SCQF level 1
- Units of the Lifeskills Mathematics Course at SCQF level 2
- further study, employment and/or training

Further details about these Units can be found on SQA's website.

Learners may progress to other Units at the same level or Units and Courses at higher levels. The nature of this progression will depend on the individual needs of the learner.

Approaches to learning, teaching and assessment

The purpose of this section is to provide general advice and guidance on approaches to learning, teaching and assessment which can be used for the delivery of this Unit.

Learners undertaking qualifications at SCQF level 1 will take part in the Unit at different levels of participation and with varying degrees of support, all of which meet the Assessment Standards. Some learners may take part at an experiential or sensory level requiring full support. Some may require frequent direction and support to enable them to take part, while others may take part independently or with intermittent support.

Learners should be given as much support as they need to engage with learning, teaching and assessment activities whist maintaining the integrity of the Outcome and Assessment Standards.

The level of support required, and any support framework used, is at the discretion of individual centres.

The skills-based focus of the Unit lends itself to the use of a variety of learning and teaching approaches, reflecting the values and principles of the curriculum. Effective learning and teaching will draw on a variety of approaches to enrich the experience of learners. In particular, a mix of approaches which provide opportunities for personalisation and choice will help to motivate and challenge the learners.

Learning should be relevant to the learner's everyday life, their overall learning programme, and/or work and leisure. Teachers/lecturers could also consider interdisciplinary and cross-curricular approaches to learning and teaching and explore how extra-curricular activities or the personal interests of learners could be included and recognised.

Learners should be given the opportunity to use their normal mode of communication and have access to the appropriate resources for support where they would normally be available in real-life situations in which the activity is being carried out.

Examples of learning and teaching approaches and ways of recording evidence are provided in the table on the next page.

Number Skills: Number Processes (National 1)

Outcome 1

With the appropriate level of support and resources, the learner will use basic number processes by:

Assessment Standards	Guidance and suggested learning and teaching approaches
1.1 Counting whole numbers	Learners should be provided with opportunities to use basic number processes, including recognition of the symbols used for addition, subtraction and equals. Teachers/lecturers could use a range of whole numbers from 0–20 for learning and teaching activities.
1.2 Adding two whole numbers	As a minimum requirement, learners should be able to count consecutively whole numbers in the range 0–10. To support this task, learners could rote count, order numbers according to their value using number lines and squares, and/or match figures to words.
1.3 Subtracting two whole numbers	Learners should also be able to add two whole numbers in the range 0–10 and to subtract two whole numbers in the range 0–10 as a minimum requirement. Learners could be provided with opportunities to carry out very simple addition and subtraction of whole numbers in real-life situations by adding on or taking away. This should include the use of the recognised symbols for addition, subtraction and equals. Number puzzles and games could be used to practise recall of number facts and improve agility with addition and subtraction. Online quizzes and scenarios which use whole numbers in simulated contexts could also be used.
	Learners should be encouraged to perform calculations in a variety of different ways, for example: mentally, in writing, by using a number line or real objects for support.
	This Unit could be linked to activities in other National 1 Number Skills Units.
	This Unit could also be linked to activities in other National 1 Units, for example Independent Living Skills: Going Shopping, Food Preparation: Baking.

Assessment

There is no external assessment for National 1 Units. All Units are internally assessed against the requirements outlined and described in the *Unit Specification* and the *Unit Assessment Support* pack.

To achieve the Unit, learners must pass the Unit Outcome.

At SCQF level 1, it is anticipated that most evidence for assessment purposes will be gathered on a naturally occurring, on-going basis, rather than from more formal assessment methods. There are many contexts that might be used for gathering of evidence. These might include, for example, extra-curricular and/or outdoor learning.

Naturally occurring evidence is evidence which occurs within and as part of the learning and teaching, and can be gathered for assessment purposes in a variety of ways. Examples of how this evidence might be gathered include:

- observation of evidence demonstrated during an activity (using an observation checklist, visual recording, photography or equivalent)
- oral questioning before, during and on completion of an activity (recorded using an audio-visual or audio recording or using detailed written assessor notes as evidence)
- learning and teaching activities which generate physical evidence for assessment
- identifying opportunities to record evidence within out-of-centre activities

Centres are encouraged to develop criteria for success which focus on small, well-defined steps in learning. In this way the learner is more likely to achieve success in the Unit and in any subsequent learning.

Learners will benefit from receiving accurate and regular feedback regarding their learning. This helps to ensure they are actively involved in the assessment process. It is also important that different approaches to assessment are adopted to suit the varying needs of learners.

Authentication

For guidance on authentication of evidence that is gathered outwith the direct supervision of the teacher/lecturer responsible for the learner, eg outside the school or classroom, refer to SQA's *Guide to Assessment*.

It is important that teachers/lecturers track and keep accurate records of their assessments in order to:

- inform learners of their progress
- identify where further consolidation is required
- retain and store appropriately evidence of work in progress and completed work for verification purposes

It is anticipated that learners will need a high degree of teacher/lecturer assistance. More details about the type of support are provided within the Equality and inclusion section.

Developing skills for learning, skills for life and skills for work

The *Unit Specification* lists the skills for learning, skills for life and skills for work that learners should develop in *this Unit.* These are based on SQA's *Skills Framework: Skills for Learning, Skills for Life and Skills for Work* and should be built into the Unit where there are appropriate opportunities. The level of these skills will be appropriate to the level of the Unit.

Skills for learning, skills for life and	Examples of learning and teaching		
skills for work	approaches		
1 Literacy			
Listening means the ability to understand and interpret ideas, opinions and information presented orally for a purpose and within a context, drawing on non-verbal communication as appropriate. Talking means the ability to communicate orally ideas, opinions and information for a purpose and within a context.	 Where appropriate, learners could use their normal mode of communication during learning and teaching activities to: communicate, eg about the result of adding of two whole numbers from 0–10 respond, eg to a question about subtracting two whole numbers from 0–10 		
2 Numeracy			
 Number processes Number processes means solving problems arising in everyday life through: carrying out calculations involving addition, subtraction, multiplication, and division using whole numbers, fractions, decimal fractions, and percentages making informed decisions based on the results of these calculations understanding these results 	Where appropriate, learners could use number processes to solve practical problems, eg: • carrying out calculations (addition, subtraction) using whole numbers from 0–10		

It is important that learners have opportunities to develop these broad general skills as an integral part of their learning experience.

There will be opportunities for the development of additional skills for learning, skills for life and skills for work throughout this Unit. These will vary from centre to centre depending on the approaches being used to deliver the Unit.

Equality and inclusion

The additional support needs of learners should be taken into account when planning learning experiences or when considering any reasonable adjustments that may be required. Assessment methods should offer all learners an equal opportunity to demonstrate their achievement. This should be reflected in the language used, the use of different assessment presentation methods and the use of appropriate illustrative materials that reflect an inclusive view.

Learners undertaking qualifications at SCQF level 1 are likely to require more support with their learning than at other levels, and learners should be given as much support as they need to engage with learning, teaching and assessment activities whilst maintaining the integrity of the Outcome and Assessment Standards.

Examples of support might include:

- allowing extra time to complete activities
- support ranging from prompting to full support from a responsible person
- the use of specialised and adapted equipment
- the use of ICT and other assistive technologies
- visual prompts

It is recognised that centres have their own duties under equality and other legislation and policy initiatives. The guidance given in these *Unit Support Notes* is designed to sit alongside these duties but is specific to the delivery and assessment of the Unit.

Alternative approaches to Unit assessment to take account of the specific needs of learners can be used. However, the centre must be satisfied that the integrity of the assessment is maintained and how the alternative approach to assessment will generate the necessary evidence of achievement.

Appendix 1: Reference documents

The following reference documents will provide useful information and background.

- Assessment Arrangements (for disabled candidates and/or those with additional support needs) — various publications on SQA's website (www.sqa.org.uk)
- Building the Curriculum 4: Skills for learning, skills for life and skills for work (www.educationscotland.gov.uk)
- Building the Curriculum 5: A framework for assessment (www.educationscotland.gov.uk)
- Design Principles for National Courses (www.sqa.org.uk)
- ♦ Guide to Assessment June 2008 (www.sqa.org.uk)
- Overview of Qualification Reports (www.sqa.org.uk)
- Principles and practice papers for curriculum areas
- ♦ Research Report 4 Less is More: Good Practice in Reducing Assessment Time
- ♦ Coursework Authenticity a Guide for Teachers and Lecturers
- SCQF Handbook: User Guide, published 2009 (www.scqf.org.uk) and SCQF level descriptors (www.sqa.org.uk)
- ◆ SQA Skills Framework: Skills for Learning, Skills for Life and Skills for Work (www.sqa.org.uk)
- ♦ Skills for Learning, Skills for Life and Skills for Work: Using the Curriculum Tool (www.sqa.org.uk)
- ◆ SQA Guidelines on e-assessment for Schools (www.sqa.org.uk)
- ◆ SQA Guidelines on Online Assessment for Further Education (www.sqa.org.uk)
- ◆ SQA e-assessment web page (www.sqa.org.uk)

Administrative information

ed: February 2014 (version 1.0)

History of changes to Unit Support Notes

Unit details	Version	Description of change	Authorised by	Date

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