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| **Minor Award Name** | Quantity and Number |
| **Minor Award Code** | M2N05 |
| **Level** | 2 |

**Suggested resources to support delivery:**

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| --- | --- | --- | --- | --- |
| **Theme/Topic** | **Type** | **Relevance** | **Author/Source** | **Web Link** |
| Comprehensive resource for module | Free download | Resource pack written for Adult Literacy Tutors. This pack contains a maths module based on gardening, specifically written for Quantity and Number. It covers, recognising numbers up to 100, the relationship between 100 and large common numbers. Place value in relation to units, tens, hundreds. Adding whole numbers that total less than 100. Subtracting that require number bonding up to 10. Using plus, minus and equals signs and operations. Estimating to nearest quantity in 10s or 100s | Kerry ETB  *‘Learning through Gardening’ Level 2* | **https://www.nala.ie/resources/kerry-etb-learning-through-gardening-level-2** |
| Comprehensive resource for module | Free download pdf. | This workbook has exercises to cover all Learning Outcomes for this module. Including recognising numbers up to 100, relationship between 100 and common large numbers. Place value in relation to units, tens and hundreds. Addition of 2 digit whole numbers that total less than 100. Subtracting 2 digit numbers. Estimating to nearest quantity in 10s or 100s. Using plus, minus and equals signs and operations on a calculator | NALA  *Time 4 Learning* | <https://www.nala.ie/sites/default/files/publications/Time%204%20Learning%20-%20numeracy%20workbook_1.pdf> |
| Additional material | Photocopy Master | This workbook contains some worksheets useful for this module, including place value in relation to units, tens and hundreds Estimation to nearest value in broad terms. This book also covers Numeracy Level 3, so some worksheets may need to be adapted. | Brown and Brown *Maths Worksheets - Adult Numeracy Worksheets* | <https://www.nala.ie/resources/maths-worksheets-adult-numeracy-worksheets> |
| Additional material | Free download pdf | This workbook contains some worksheets useful for this module, such as writing dates and adding numbers above 100 | NALA  *Really Useful Guide – Learner Workbook 1* | Google search ‘RUG Learner Workbook 1’ |
| Additional material | Free download pdf | This workbook contains some worksheets useful for this module, such as estimation and distance & speed | NALA  *Read Write Now 3* | <https://www.nala.ie/sites/default/files/publications/Read%20Write%20Now%20Learner%20Workbook%203_1.pdf> |
| Maths Theory | website | Online interactive practice covering the theory for this module, mathematical terms and symbols, addition, subtraction, estimation, solutions to quantitative problems. Levels J, S, 1 | IXL Learning Resources for Irish schools | <https://ie.ixl.com/> |
| Comprehensive resource for module | e-learning website | Quantity and Number section at level 2 – students can complete the module on write-on and receive QQI certification from NALA. In reality students generally need the support and guidance of a qualified tutor to achieve this goal | NALA  Write-on.ie | <http://www.writeon.ie/nala/student/login_new.jsf> |
| Free Math Worksheet Creator | e-learning website | Create free worksheets for addition that total less than 100. Subtraction of 2 digit numbers and place value in relation units, tens and hundreds | Noetic Learning LLC | <http://www.noetic-learning.com/mathdrill/index.jsp> |
| Money | iPad App | The Euro Coin app is a preschool app but can be suitable for use with adults if the volume set at zero. It covers addition, subtraction, sequencing, place value | Joy Preschool Game | Apple App Store |
| Comprehensive resource | e-learning website | Exercises covering all Learning Outcomes for this module. Number recognition 1 -100 Place value in relation to units, tens and hundreds. Addition of 2 digit whole numbers that total less than 100. Subtracting 2 digit numbers. Estimating to nearest quantity in 10s or 100s. Using plus, minus and equals signs and operations on a calculator | © BBC 2015 | <http://www.bbc.co.uk/skillswise/maths> |
| Comprehensive resource | e-learning website | Exercises covering all Learning Outcomes for this module. Number recognition 1 -100 Place value in relation to units, tens and hundreds. Addition of 2 digit whole numbers that total less than 100. Subtracting 2 digit numbers. Estimating to nearest quantity in 10s or 100s. Using plus, minus and equals signs and operations on a calculator | © 2009 Maths Centre | <http://www.mathscentre.co.nz/Topics/Mighty%20Maths/> |
| Comprehensive resource | e-learning website | Exercises covering all Learning Outcomes for this module. Number recognition 1 -100 Place value in relation to units, tens and hundreds. Addition of 2 digit whole numbers that total less than 100. Subtracting 2 digit numbers. Estimating to nearest quantity in 10s or 100s. Using plus, minus and equals signs and operations on a calculator. | © Teaching Your Child. | <http://www.teachingyourchild.org.uk/maths.htm#Counting> |
| Comprehensive resource | e-learning website | Innovative ideas and printable worksheets covering all Learning Outcomes for this module Number recognition 1 -100 Place value in relation to units, tens and hundreds. Addition of 2 digit whole numbers that total less than 100. Subtracting 2 digit numbers. Estimating to nearest quantity in 10s or 100s. Using plus, minus and equals signs and operations on a calculator. | Top of Form  Bottom of Form  © 2011 Skills Workshop. | <http://www.skillsworkshop.org/numeracy?op=or&tid%5B%5D=55&tid_depth%5B%5D=852> |
| All themes | Tutor inspired | The following are ideas for tutors to create their own resources taking into account the interests and skills of the learners.  Shopping: adding totals of small numbers of items. Use supermarket fliers for ideas and prices. Calculating change by subtracting from 10 20 50 100 euro. Keep shopping lists relevant to learners. Estimating items to nearest 50 cents and adding to get approximate total spend.  Looking at prices of clothes online or in catalogues. Pricing an outfit. Looking online or using shop fliers or catalogues to view items for sale of interest to the learner. Adding prices, subtracting from round sum to calculate change.  Eating out: using restaurant or take away menus or creating a menu suited to learner with Microsoft Word. Student chooses items from the menu. Estimating the cost. Creating a bill and calculating change.  Looking at numbers over 100 - car sales, property for rent, property for sale, items for sale, see [www.donedeal.ie](http://www.donedeal.ie) or local free newspapers, For even larger numbers, lotto prizes. Look at place value for all of these numbers.  Telephone numbers, how to group them. Pay parking – adding money, calculating time. Bus/train timetables finding journey length from departure and arrival times. Place value for prices on display, petrol, diesel, bus fares  Keep it straightforward, keep it relevant to the learner |  |  |
| Numeracy Teaching reference for tutors | Book  also Free download pdf | This handbook provides tutors with guidance to numeracy teaching, with case studies and methods & approaches.  See Part 5 on the relevance of teaching skills in a progressive order.  There is also a good section, Part 6 on materials and resources with ideas on adapting resources and writing your own. | Basic Skills Agency  *Introduction to Numeracy Teaching*  by Jessica Brittan | <http://files.eric.ed.gov/fulltext/ED368913.pdf> |

**Useful Organisations:**

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| **Q** | **Contact Information** |
| NALA | <https://www.nala.ie/> |
| NALA Resources | <http://resources.writeon.ie/> |
| Seomra Ranga - links to maths | <http://www.seomraranga.com/links/maths/> |

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| **MOOCs (Massive Online Open Courses)** | |
| Free access to online courses  Search regularly for new courses and new start dates | https://www.mooc-list.com/ |