



**Software for Mathematics KS1 & 2**

**NNS Strands:**

**1. Numbers and the number system**

Counting; properties of numbers and number sequences, including negative numbers; place value and ordering, including reading and writing numbers; estimating and rounding; fractions, decimals and percentages, and their equivalence; ratio and proportion.

**2. Calculations**

Understanding number operations and relationships; rapid mental recall of number facts; mental calculation, including strategies for deriving new facts from known facts; pencil and paper methods; using a calculator; checking that results of calculations are reasonable.

**3. Solving problems**

Making decisions: deciding which operation and method of calculation to use (mental, mental with jottings, pencil and paper, calculator...); reasoning about numbers or shapes and making general statements about them; solving problems involving numbers in context: 'real life', money, measures.

**4. Measures, shape and space**

Measures, including choosing units and reading scales; properties of 2-D and 3-D shapes, position, direction and movement.

**5. Handling data**

Collecting, presenting and interpreting numerical data.

Title	NNS Strand	Year Group	Description	Publisher	Cost per Licence
*RM Maths	1 – 5	1 – 6	Gives pupils 10-15 minutes of individualised Maths support either daily or several times a week, exactly matched to their ability, with focus on core skills and Mental Maths. RM Maths has been proven to raise pupil's attainment in an independent trial by Lancaster University. RM Maths: <ul style="list-style-type: none"> <li>• Provides differentiated work with no teacher preparation needed</li> <li>• Gives you valuable assessment information (progress, problems etc) without the marking</li> <li>• Enables pupils to stay on task and work independently</li> <li>• Raises pupils' self-esteem and confidence with Maths - the management system keeps pupils working at an 80% success level so they are challenged but rewarded.</li> </ul>	RM	1 User £299 Extra User £149 10 User £1417 15 User £2013 20 User £2609 Unlimited £3205

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*Snapshot Numeracy	1 – 5	1 – 6	A time-saving Maths assessment tool for primary schools, designed to support the National Numeracy Strategy's recommendations for long-term assessment. It combines a motivating, enjoyable, on-screen Maths test for each of Years 1-6 with automatic instant marking and reliable diagnostic reports. These reports show areas of strength and difficulty for individuals and groups. It also reports progress accurately against National Curriculum Levels and Numeracy Strategy objectives, helping your school provide evidence of pupil attainment and value added. Reading ability is not tested as the questions are read to the pupils.	RM	1 User £49 Extra User £12 10 User £139 15 User £187 20 User £235 Unlimited £283
*Easiteach Maths *Easiteach Maths Content Pack	1 – 5	R – 6	Adds on maths tools to RM Easiteach interactive whiteboard software. It provides a range of maths resources – number lines, number grids, place value cards, graphs and includes an interactive function machine. You can build your own lessons with the Easiteach Maths Tools, or use the optional Content Pack, with over 400 Maths activities, including references, learning objectives, lesson plans, key vocabulary, ideas for extending the activities and notes for plenary sessions. Activities are provided by RM, Heinemann, Ginn and Rigby, and are linked to leading Maths schemes, such as Abacus, New Heinemann Maths and Numeracy Focus.	RM	1 User £59 5 User £259 10 User £512 15 User £749 20 User £899 Unlimited £1050  Content Pack Unlimited £299
*Cars: Maths in Motion	1 – 5	5 – 6	Based around Formula 1 Grand Prix racing, this software covers a range of mathematical skills away from the computer – calculation, estimation, percentages, decimals, measure, scale, ratios, angles, strategy, speed, time, graphs and charts and much more. All of this is used to set up their mathematical model of a racing car which is then put through practice laps and ultimately raced against other pupils' cars. Pupils find this to be highly motivating and it is at a level that 10's and over can understand.  Schools can purchase the software at a discounted rate if they participate in the yearly Jaguar Cars Maths in Motion Challenge, where they will compete with other schools in the county and, if successful, as far as the national final. Details at <a href="http://www.mathschallenge.co.uk">http://www.mathschallenge.co.uk</a> and <a href="http://www.bucksict.org.uk">http://www.bucksict.org.uk</a> .	CSH	<b>Prices if participating in Maths Challenge</b> 4 User £75 (CD-ROM pack) 10 User £100 20 User £150 30 User £205 Unlimited £250  Upgrade from previous version – contact CSH
*Interactive Teaching Programs (ITPs)	1 – 5	R – 6	32 interactive teaching programs to support the teaching of all aspects of mathematics. Two versions of each program are available – the first runs independently and the second is a Flash file which can be inserted into SMART Notebook, Easiteach and other interactive whiteboard software. Available for download from the <a href="#">DfES Standards Site</a> .	DfES	Free

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*Interactive Essentials: Shape, Space and Measure	4	R – 6	A package of maths tools specifically designed for whole-class teaching with interactive whiteboards. Simple and intuitive to use - load a tool and start teaching at once without any training. In addition, they all have comprehensive help screens. Shape, Space and Measure tools – Dial Scales; Make and Measure; Capacity; Teaching Clock; Alarm Clock; Reflection; Position; Rotation; Rotate, Translate and Flip; Straight Line Angles; Turning Angles; Calculator. Number tools – Negative Numbers; Number Line; Place Value Cards; Number Grid; Multiplication Grid; Counting Joe; Fraction Wall; Shape Fractions; Division by Grouping; Find the Difference; Ratio and Scale; Function Machine.  Both software titles are now available as a bundle with Bubble Multiples, an interactive game.	Interactive Essentials Limited	Unlimited £269
*Interactive Essentials: Number	1	R – 6			Special Arrangement for Buckinghamshire Schools One single user licence issued free per school  Upgrade to site licence: Shape, Space and Measure £49 Number £69
*DfEE Numeracy Pack	1 – 5	R – 6	Contains 17 programs to support mathematics at Key Stages 1 & 2. Some are suitable for whole class or group use, whilst others are for individual use. The DfEE Numeracy Pack was sent to all primary schools several years ago. If this is not available in your school, 12 of the programs are available to download from the <a href="#">DfES Standards Site</a> .	DfES	Free The pack has been sent to all schools
*Zoombinis Maths Journey	1 – 5	3 – 6	Lead the Zoombinis to their homeland, encountering maths puzzles on the way. Pupils must constantly be looking for patterns and relationships in order to proceed/succeed.	Riverdeep (R-E-M)	1 User £19 5 User £39
*Zoombinis Mountain Rescue	1 – 5	3 – 6	Save the Zoombinis trapped on a mysterious summit. Pupils will use mathematical thinking used in writing computer programs and organising data in spreadsheets.	Riverdeep (R-E-M)	1 User £19 5 User £39
*Zoombinis Island Odyssey	1 – 5	3 – 6	Help the Zoombinis to save the Zerbles and develop maths logic and scientific-thinking along the way. Also introduces scientific concepts including astronomy, mechanics, cryptography and life sciences.	Riverdeep (R-E-M)	1 User £19 5 User £39
*Breakaway Maths	1 – 5	2 – 6	Designed to encourage less able and disenchanting 7-12 year olds to progress in mathematics. Set in Alton Towers Theme Park, the program captures the imagination of users by setting a series of true-to-life problem solving activities and investigations based on various rides within the park. Covers National Curriculum attainment levels 1 – 3.	YITM (AVP)	1 User £49 3 User £89 5 User £119 10 User £179
*%123 CD	1	R – 1	Contains 10 focused activities and 2 animated number rhymes, covering the number range 0–10. All activities are fully narrated and will enable pupils to confidently explore the complexities of counting and other essential early number skills. Also included is the Teacher's Toolkit, a powerful tool designed to allow the software to be used for whole-class teaching on a whiteboard or large screen.	Sherston (OSE)	1 User £44.95 3 User £67.43 5 User £89.90 10 User £134.85 Unlimited £224.75

Title	NNS Strand	Year Group	Description	Publisher	Cost per Licence
*%Fizzy's First Numbers	1	R – 1	Help Fizzy and the number friends as they explore the world of numbers. Carefully-planned activities, high-quality graphics and age-appropriate narration combine to help young children practise and develop many essential counting skills. There are 9 activities including recognising numerals 1 to 9, reciting the correct sequence of number names, counting sets of objects, finding the correct set for a given number name and much more. Teacher Options include the facility to set the number range for pupils to work within and the number of times each activity is automatically played.	Sherston (OSE)	1 User £39.95 3 User £59.93 5 User £79.90 10 User £119.85 Unlimited £199.75
*%Number Train	1, 2	R – 1	Provides users with over 20 carefully structured practical and mental activities. Fully narrated, Number Train captivates pupils as they work with a host of wonderful characters – all there to help develop essential mathematical skills including: ordering numbers, odd and even numbers, counting in twos, basic addition, subtraction of numbers from 0 – 20.	Sherston (OSE)	1 User £44.95 3 User £67.43 5 User £89.90 10 User £134.85 Unlimited £224.75
*% Number Plane	1, 2	2	Following on from Number Train, Murphy Mouse returns in Number Plane, with 21 new practical, narrated activities based on many of the Numeracy Strategy supplementary examples for Year 2. There is a new collection of amazing characters and engaging activities to capture and retain pupils' interest and the same high standard of carefully-designed, fully narrated content. Key content includes: number range from 0-99, fractions: halves and quarters, place value in 2 digit numbers, multiplication as repeated addition, division as sharing equally and repeated subtraction.	Sherston (OSE)	1 User £44.95 3 User £67.43 5 User £89.90 10 User £134.85 Unlimited £224.75
*%NumberShark 3	1, 2	1 – 6	30 different games to support numeracy. Covers addition, subtraction, multiplication and division. The level of difficulty can be easily configured to suit each pupil.	White Space (OSE)	1 User £50.21 3 User £120 5 User £190 10 User £320 15 User £420 20 User £520
*%Visual Fractions	1, 3	2 – 6	A powerful tool for the teachers, providing many new learning opportunities through its unique visualisation of fractional relationships. Ideal for use on an interactive whiteboard, connecting objects and creating visual relationships on the screen gives a new opportunity for teachers and pupils to understand those hard to grasp fraction concepts such as handling fractions, decimal fractions, percentages, ratio, picture fractions and group fractions. Comes with a large number of pre-prepared activities that can enhance and extend the teaching of fractions.	Logotron (OSE)	1 User £45 5 User £57 10 User £99 15 User £124 20 User £142 (1 User required for multi-user copies)

Title	NNS Strand	Year Group	Description	Publisher	Cost per Licence
*%BBC Maths Workshop: Number	1, 3	3 – 6	Designed to support the National Numeracy Strategy, this CD-ROM comprises of 82 activities. These include sequences, odd and even, multiples, divisibility, square and prime numbers, place value and ordering, fractions, decimals and percentages	Logotron (OSE)	1 User £59 5 User £74 10 User £130 15 User £163 20 User £186 (1 User required for multi-user copies)
*%Numeracy Box R *%Numeracy Box 1 *%Numeracy Box 2	1, 2, 3	R – 2	A series of three CD-ROMs that have been designed to make it easy for teachers to integrate ICT into their Numeracy lessons. Each title contains a wealth of short, structured activities that cover many key numeracy objectives, including counting and recognising numbers, calculations and problem solving.	Sherston (OSE)	Each CD-ROM: 1 User £44.95 3 User £67.43 5 User £89.90 10 User £134.85 Unlimited £224.75
*%Fizzy's Number Skills	2	R – 1	Supports the introduction and understanding of many essential mathematical concepts through a series of activities. Behind each gate in the number world garden lies an engaging learning experience in which one stage of a basic concept is introduced and explored, using age-appropriate narration and scenarios. The twelve activities cover concepts relating to early addition, early subtraction and comparing and ordering numbers, within the number range 0 – 10.	Sherston (OSE)	1 User £39.95 3 User £59.93 5 User £79.90 10 User £119.85 Unlimited £199.75
*%BBC Maths Workshop: Calculations	2, 3	3 – 6	Designed to support the National Numeracy Strategy, this CD-ROM comprises of 63 activities based on a range of mental calculation strategies for addition, subtraction, multiplication and division. These include sums of multiples, adding three 3 or more numbers, finding differences by counting up, doubles, halves and place value.	Logotron (OSE)	1 User £59 5 User £74 10 User £130 15 User £163 20 User £186 (1 User required for multi-user copies)
*%Money Mice	2, 3	R – 2	Marlon, Mack, Molly and Maz are planning to go to the school fair and need your pupils to help them with a variety of tasks, starting with helping Marlon to check his money box. Each of the six money-related activities help children to practise coin recognition and develop the concepts of spending, buying, selling, earning and saving money. The activities can be used separately, to support specific lesson objectives, or they can be tackled as one complete adventure.	Sherston (OSE)	1 User £49.95 3 User £74.93 5 User £99.90 10 User £149.85 Unlimited £249.75

Title	NNS Strand	Year Group	Description	Publisher	Cost per Licence
*%BBC Maths Workshop: Measure, Shape and Space	3, 4	3 – 6	Designed to support the National Numeracy Strategy, this CD-ROM comprises of 64 activities. These include recording of measure using a mixture of units, recording estimates and readings from scales, rounding measurements, measuring and calculating the area/perimeter of simple shapes, knowing and using the relationship between units of time, reading the time from clocks, naming 2D/3D shapes, properties and classifications of shapes, reflection symmetry, compass directions, co-ordinates, ordering and estimation of angles.	Logotron (OSE)	1 User £59 5 User £74 10 User £130 15 User £163 20 User £186 (1 User required for multi-user copies)
*%Textease Turtle CT	3, 4	1 – 6	A logo program with 4 different levels. The turtle can be controlled using an on-screen keypad or Logo commands. Comes with a range of backgrounds and animated turtles. Comes as part of Softease Studio CT or can be purchased separately	Softease (OSE)	Textease Studio CT: 1 User £199 Extra User £70  Textease Turtle CT 1 User £39 Extra User £15
*%BlackCat Logo	3, 4	1 – 6	A logo program with 4 different levels. The turtle can be controlled using an on-screen control pad or Logo commands. Comes with over 100 projects.	BlackCat (OSE)	1 User £49 5 User £119 10 User £179 20 User £249
*MSW Logo	3, 4	4 – 6	A free Logo program that can be downloaded from the Internet at <a href="http://www.softronix.com">http://www.softronix.com</a> .	Softronix	Free
*%The Crystal Rain Forest V2	3, 4	3 – 6	An updated and enhanced version of the best selling and award winning educational adventure into Logo. Along with the addition of three brand new activities, this version of the classic multimedia adventure has new features such as Talking Logo and a Teacher Mode. The carefully structured program introduces, develops and teaches Logo in conjunction with mathematical problem solving skills.	Sherston (OSE)	1 User £59.95 3 User £89.93 5 User £119.90 10 User £179.85 Unlimited £224.75
*%The Nature Park	3, 4	2 – 4	An update of a Sherston classic, The Nature Park can be used either as a motivating adventure, or as focused stand-alone activities. In adventure mode, pupils must pit their wits against the Glob monster and the Troggs to try and rescue the missing butterflies, solving problems along the way. In activity mode, skills can be closely focused on and consolidated through any of the eight activities, with three levels of difficulty throughout. Large, clear graphics make the activities ideal for whole class teaching as well as individual pupil use. Covers clockwise/anti-clockwise, angles and co-ordinates, identifying 2-D shapes and 3-D construction.	Sherston (OSE)	1 User £49.95 3 User £74.93 5 User £99.90 10 User £149.85 Unlimited £249.75

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*%Space Station Alert	3, 4	4 – 6	Eight highly motivating activities in shape and space that will soon develop the understanding and problem-solving skills of older juniors. The program offers two modes. In activity mode, specific skills can be selected and worked on to suit lesson plans. In adventure mode, pupils are introduced to each activity through a humorous and compelling quest: to find a cure for a virus that has put all the inhabitants of Space Station Omega into a deep sleep. Two levels of difficulty ensure progression for all, and the clear graphics and narration make the activities ideal for whole-class teaching as well as for group and individual use.	Sherston (OSE)	1 User £49.95 3 User £74.93 5 User £99.90 10 User £149.85 Unlimited £249.75
*%Bucket and Spade	4	R – 2	Let pupils join Bucket and Spade at the seaside in eight entertaining activities covering almost every aspect of infant shape and space work. Bucket and Spade are always on hand to help and instruct as they visit their favourite seaside locations, all vividly brought to life with rich photographic textures and colourful animations. Four difficulty levels let you configure the program to match specific teaching objectives. Content is broad enough to provide support for lower achievers and challenge for the more able.	Sherston (OSE)	1 User £44.95 3 User £67.43 5 User £89.90 10 User £134.85 Unlimited £224.75
*%Measure up! with Ollie and Ellie	4	R – 2	Measure up! contains nine engaging multimedia activities, designed to carefully introduce and consolidate key aspects of measuring and estimating for infants. Each activity has two levels of difficulty, and can be worked on in isolation to focus on specific skills, or as part of a motivating adventure. With clear interfaces, full narration, and Ollie Octopus and Ellie Elephant to help, children can use the software independently, or in groups on an interactive whiteboard.	Sherston (OSE)	1 User £49.95 3 User £74.93 5 User £99.90 10 User £149.85 Unlimited £249.75

For a list of web sites for Mathematics see the ICT Curriculum Support Team web site at <http://www.bucksict.org.uk>.

\*These titles are available for review at the ICT Centre.

%These titles are available at discounted prices from the ICT Centre.

<b>Suppliers</b>		
<b>ICT Centre</b>	Teaching and Learning Centre, Ellen Road, Aylesbury HP21 8ES	01296 428402
<b>AVP</b>	School Hill Centre, Chepstow, Monmouthshire NP16 5PH	01291 625439
<b>Cambridgeshire Software House (CSH)</b>	PO Box 163, Huntingdon, Cambridgeshire PE28 3UR	01487 741223
<b>DfES Standards Site</b>	<a href="http://www.standards.dfes.gov.uk">http://www.standards.dfes.gov.uk</a>	
<b>Interactive Essentials Limited</b>	Contact Hazel Hughes, <a href="mailto:hhughes@buckscc.gov.uk">hhughes@buckscc.gov.uk</a> or <a href="mailto:info@InteractiveEssentials.co.uk">info@InteractiveEssentials.co.uk</a>	07761 803915 or 07765 967544
<b>OneStopEducation (OSE)</b>	<a href="http://www.onestopeducation.co.uk/buckinghamshire">http://www.onestopeducation.co.uk/buckinghamshire</a>	
<b>R-E-M</b>	Great Western House, Langport, Somerset TA10 9YU	01458 254700
<b>RM</b>	New Mill House, 183 Milton Park, Abingdon, Oxfordshire OX14 4SE	08709 086969
<b>Softronix</b>	<a href="http://www.softronix.com">http://www.softronix.com</a>	