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**Planning for a Year 2 and Year 3 mixed-age class using Numicon**

**Introduction**

In this document you will find guidance on planning for a Year 2 and Year 3 mixed-age class

* Planning considerations for Year 2 and Year 3 mixed-age teaching.
* Year 2 and Year 3 mixed-age long-term planning guidance.
* Year 2 and Year 3 mixed-age long-term plan, with Year 3 focus.

How you teach a mixed-age class depends on factors such as whether you have any additional teaching support for the maths lesson, and whether you have flexibility to organize your own day and timetable. Key considerations that you may wish to think through when planning and teaching a mixed-age class using Numicon are provided in this guidance.

A Year 2 and Year 3 mixed-age long-term plan (MALTP2) is supplied.

We understand that each class is different, so use your professional judgement to adapt the plans. A flexible approach to each week and unit will help you to best meet the needs of your class.

**Year 1 – Learn from Firm Foundations**

**Year 2 – Learn from Numicon 1**

**Year 3 – Learn from Numicon 2**

**These books cover Phase 1 of the new Curriculum**

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**Planning considerations for Year 2 and Year 3 mixed-age teaching**

**Teaching without additional teaching support: some organizational possibilities**

* **Start your teaching based on the Year 3 objectives for the whole class when teaching units with similar objectives.** Organizing the class into mixed-attainment groupings allows Year 3 children to recap and consolidate their own understanding of their previous learning, whilst also supporting the Year 2 children in their understanding of new learning. As the lesson/ week progresses, you may wish to incorporate more practice and consolidation time so that when Year 2 children are working independently, you work with the Year 3 children on Year 3 objectives using either guided group work, work with individuals or whole-class teaching.
* An example of a teaching week could look like this:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Teaching sequence** | **Day 1** | **Day 2** | **Day 3** | **Day 4** | **Day 5** |
| Input (new teaching objective) | Whole-class Year 2 NC objective teaching input. | Whole-class Year 2 NC objective teaching input. Extension questions for Year 3 within whole-class input. | Year 2 only guided group work. Year 3 work independently on task set on Day 2. | Whole-class Year 2 NC objective teaching input. Extension questions for Year 3 within whole-class input. | Year 3 only guided group work. Year 2 work independently on task set on Day 4. |
| Year 2 children | Mixed-age Year 2/3 groupings. Teacher circulates whole class – asks Year 3 extension questions during small-group discussions. | Collaborative work without teaching support. | Independent work without teaching support. | Teacher input with Year 2. Includes setting up a learning task that Year 2 will continue with independently on Day 5. | Mixed-age Year 2/3 groupings. Teacher circulates whole class – asks extension/ support questions during small-group discussions. |
| Year 3 children | Teacher input with Year 3. Includes setting up a learning task that Year 3 will continue with independently on Day 3. | Teacher guided input. | Independent work without teaching support. |

* **Organize the maths lesson to allow for two entirely separate maths teaching inputs.** This organization allows you to split your class and your input into Year 2 teaching objectives and Year 3 teaching objectives. Careful consideration needs to be given to how to structure your day to allow for this, and to ensure that those children not involved are occupied with other work.
* **Make use of other group work times within the school day.** Make use of other group work times within the school day to create opportunities for guided maths time and extra maths input teaching time outside of the maths lesson.

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**Teaching with additional teaching support: some organizational possibilities**

* If you have an additional adult in the classroom, the logistics of managing mixed-age teaching may be simpler.
* Best practice is to ensure that the teacher remains responsible for the learning and progress of every child in the class and spends equal teaching time with every child regardless of attainment or age group.
* An example of a teaching week could look like this:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Teaching sequence** | **Day 1** | **Day 2** | **Day 3** | **Day 4** | **Day 5** |
| Input | Whole-class Year 2 objective teaching input. | Year 2 teacher input with additional teaching support for Year 3 independent work. | Year 3 teacher input with additional teaching support for Year 2 independent work. | Year 2 teacher input with additional teaching support for Year 3 group work. | Year 3 teacher input with additional teaching support for Year 1 independent work. |
| Year 2 | Additional teaching support for Year 2 group work. | Additional teaching support for Year 2 group work. | Teacher Year 2 input. | Additional teaching support for Year 2 independent work. | Teacher Year 2 input. |
| Year 3 | Teacher Year 3 input and guided group work. | Teacher Year 3 input and guided group work. | Additional teaching support for Year 3 group work. | Teacher Year 3 input and guided group work. | Additional teaching support for Year 3 independent work. |

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**Year 2 and Year 3 mixed-age long-term planning guidance**

* The Year 2 and Year 3 MALTP is based (where possible) on the Numicon 2 long-term plan. This is to ensure that Year 3 children have a thorough understanding of essential elements of the curriculum before they progress to Phase 2.
* The order here is therefore different from the Year 2 and Year 3 single year group long-term plans and you will need to be aware that children may need additional support with prerequisite skills.
* If you decide to move strands around, consider what learning needs to have happened first to ensure children can successfully progress to the new units. The progression of number, place value, multiplication, division and fractions should be very carefully considered.
* For each of the activity groups, we suggest that you decide which of the activities to complete, extend or combine. If you need to use additional time to enable children to achieve objectives, keep in mind the impact that this extra time will have on coverage of other activity groups over the year. **We recommend that mastering understanding of the concepts is the core priority.**

**How does this plan differ from the single-year plans?**

* Activity groups from Numicon 1 have been matched to Numicon 2 by topic and key mathematical ideas to ensure that teaching is based on very similar ideas from both year groups, and to make your teaching more manageable.
* The order of some units has been changed to ensure that similar ideas are taught for both year groups. It is advisable to look at the single age group long-term plans (SALTP) to be aware that children may need additional support with prerequisite skills.
* There are some Activity groups that do not have a matched unit because a topic is new to Year 3, in particular: Numicon 2 Numbers and the Number System 5 – Rounding; Numicon 2 Numbers and the Number System 6 - Introducing fractions as numbers (which builds on earlier work on fractions as operators); Year 3 Calculating 15 - Introducing dividing as ‘How many ... in ... ?’. For these three units we have suggested some of the activities you have not yet covered from Securing Foundations 1–12, of course you may also choose to revisit any earlier activities you have not covered or consolidate previous learning.
* There are some matched examples which may initially seem to be a strange match, for example, Numicon 1 Calculating 7 - Developing recall of adding and subtracting facts within 10 and Numicon 2 Calculating 14 – Adding and subtracting to 20. There may be other units where the content is more in line but when considering progression this is the correct place to match it as it is the final addition and subtraction unit in Year 3. Another change to note is that Numicon 2 Calculating 11 and 12 have been swapped around to enable Numicon 1 Calculating 8 to be matched effectively.
* For all the activity groups you will need to decide whether your Year 3 children need to revisit some of the Year 2 content or focus on new learning and consolidation of the Numicon 2 units.

**More online and in the printed Teaching Handbooks**

You can find further information on the contents of each Activity Group, single year group planning documents, templates and more in the Numicon printed Teaching Handbooks and on Numicon Online.

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**Year 2 and Year 3 mixed-age long-term plan (MALTP2)**

Direct links to each set of activities are included in the planning charts below. After logging into your Numicon Online subscription, you can then click on any of the links in the planning charts to open those activities in the Online Teaching Handbooks.

Please note that KMI stands for Key Maths Ideas.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Y3 Activity group title** | **Getting started with Number, Pattern and Calculating 2**  KMI: Counting, Place value, Grouping, Mathematical thinking and reasoning | | | | Counting to 100 and beyond  KMI: Counting, Place value, Mathematical thinking  and reasoning |
| **Y3 Strand and activity group number** | **Getting Started** | | | | **Numbers and the Number System 1** |
| **Year 2 Activity group title** | Learning about Numicon Shapes, number rods,  pattern and counting  KMI: Pattern, Ordering, Counting, Mathematical  thinking and reasoning | Naming Numicon Shapes, building patterns and  thinking and reasoning  KMI: Pattern, Ordering, Counting, Mathematical  counting objects | Building Numicon Shape patterns, more repeating  patterns and number lines  KMI: Pattern, Counting, Grouping, Ordering,  Mathematical thinking and reasoning | Describing relationships, more adding and  patterns in movement  KMI: Pattern, Counting, Ordering, Adding,  Mathematical thinking and reasoning | Learning about Numicon Shapes, number rods,  pattern and counting  KMI: Pattern, Ordering, Counting, Mathematical  thinking and reasoning |
| **Y2 Strand and activity group number** | **Securing Foundations 1**  **Getting Started Activity 1-5** | **Securing Foundations 2**  **Getting Started Activity 1-5** | **Securing Foundations 3 Getting Started 1-4** | **Securing Foundations 5 Getting Started 1-3** | **Numbers and the Number Securing Foundations 1 System 1-3** |

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Please note that KMI stands for Key Maths Ideas.

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Y3 Activity group title** | Counting to 100 and beyond  KMI: Counting, Place value, Mathematical thinking and reasoning | | | Exploring different patterns  KMI: Pattern, Mathematical thinking and reasoning | | | |
| **Y3 Strand and activity group number** | **Numbers and the Number System 1** | | | **Pattern and Algebra 1** | | | |
| **Y2 Activity group title** | Naming Numicon Shapes, building patterns and thinking and reasoning  KMI: Pattern, Ordering, Counting, Mathematical counting objects | KMI: Counting, Adding, Commutative property,  Counting and adding  Mathematical thinking and reasoning | Finding how many by grouping  KMI: Counting, Place value, Grouping, Mathematical thinking and reasoning | Learning about Numicon Shapes, number rods, pattern and counting  KMI: Pattern, Ordering, Counting, Mathematical thinking and reasoning | Naming Numicon Shapes, building patterns and thinking and reasoning  KMI: Pattern, Ordering, Counting, Mathematical counting objects | Building Numicon Shape patterns, more repeating patterns and number lines  KMI: Pattern, Counting, Grouping, Ordering,  Mathematical thinking and reasoning | Comparing and ordering, more patterns, beginning calculating  KMI: Pattern, Counting, Ordering, Adding,  Mathematical thinking and reasoning |
| **Y2 Strand and activity group number** | **Numbers and the Number Securing Foundations 2 System 1** | **Securing Foundations 11**  **NNS Activity 1 and Practice and discussion** | **Numbers and the Number System 2** | **Securing Foundations 1 Pattern and Algebra Activity 1-5** | **Securing Foundations 2 Pattern and Algebra Activity 1–3** | **Securing Foundations 3 Pattern and Algebra Activity 1-3** | **Securing Foundations 4 Pattern and Algebra Activity 1 and 2** |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Y3 Activity group title** | Exploring different patterns  KMI: Pattern, Mathematical thinking and  reasoning | | Adding and writing adding sentences  KMI: Adding, Pattern, Mathematical thinking and  reasoning | | | | Subtracting and writing subtracting sentences KMI: Subtracting, Mathematical thinking and reasoning |
| **Y3 Strand and activity group number** | **Pattern and Algebra 1** | | **Calculating 1** | | | | **Calculating 2** |
| **Y2 Activity group title** | Describing relationships, more adding and patterns in movement  KMI: Pattern, Counting, Ordering, Adding, Mathematical thinking and reasoning | KMI: Duration, Ordering, Standard units  Units of time | Comparing and ordering, more patterns, beginning calculating  KMI: Pattern, Counting, Ordering, Adding, Mathematical thinking and reasoning | Describing relationships, more adding and patterns in movement  KMI: Pattern, Counting, Ordering, Adding, Mathematical thinking and reasoning | KMI: Counting, Adding, Commutative property, Counting and adding  Mathematical thinking and reasoning | Similar attributes, numbers to 20 and the ‘+’ symbol  KMI: Equivalence, Order, Counting, Grouping, Adding, Mathematical thinking and reasoning | Beginning subtracting, sorting, more number  patterns  KMI: Pattern, Ordering, Equivalence, Counting, Grouping, Subtracting, Mathematical thinking and reasoning |
| **Y2 Strand and activity group number** | **Securing Foundations 5 Pattern and Algebra Activity 1** | **Measurement 3 Activity 1-3** | **Securing Foundations 4 Calculating 1-2** | **Securing Foundations 5 Calculating 1-3** | **Securing Foundations 11 Calculating 1-6** | **Securing Foundations 12 Calculating Activity 1-3** | **Securing Foundations 8 Calculating 1-2** |

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| **Y3 Activity group title** | Subtracting and writing subtracting sentences  KMI: Subtracting, Mathematical thinking and reasoning | KMI: Counting, Pattern, Place value, Equivalence, 2-digit numbers  Order, Mathematical thinking and reasoning | | Ordering adding and subtracting facts  KMI: Adding, Subtracting, Pattern, Mathematical thinking and reasoning | Exploring the inverse relationship between adding and subtracting within 10  KMI: Inverse, Adding, Subtracting, Mathematical thinking and reasoning | KMI: Counting, Place value, Equivalence, Pattern, More 2-digit numbers, Order, Mathematical thinking and reasoning | Comparing and ordering numbers to 100 KMI: Counting, Pattern, Order, Place value, Equivalence, Mathematical thinking and reasoning |
| **Y3 Strand and activity group number** | **Calculating 2** | **Numbers and the Number System 2** | | **Calculating 3** | **Pattern and Algebra 2** | **Numbers and the Number System 3** | **Numbers and the Number System 4** |
| **Y2 Activity group title** | Introducing the subtracting symbol  KMI: Subtracting, Mathematical thinking and reasoning | Naming number rods, investigating teen numbers and finding totals  KMI: Pattern, Ordering, Place value, Adding,  Mathematical thinking and reasoning | Similar attributes, numbers to 20 and the ‘+’ symbol  KMI: Equivalence, Order, Counting, Grouping, Adding, Mathematical thinking and reasoning | Exploring adding and subtracting facts to 10  KMI: Adding, Subtracting, Pattern, Inverse, Mathematical thinking and reasoning | Reasoning with Numicon Shapes and number reasoning ideas  KMI: Pattern, Mathematical thinking and | Structure of 2-digit numbers and more ordering KMI: Counting, Pattern, Order, Place value, Equivalence, Mathematical thinking and reasoning | Ordering numbers to 20  KMI: Counting, Place value, Grouping, Mathematical thinking and reasoning |
| **Y2 Strand and activity group number** | **Calculating 1** | **Securing Foundations 6**  **Numbers and the Number**  **System**  **Activities 1-3** | **Securing Foundations 12 Numbers and the Number**  **System**  **Activity 1** | **Calculating 4 Part 1** | **Pattern and Algebra 2** | **Numbers and the Number System 4** | **Numbers and the Number System 1** |

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| **Y3 Activity group title** | Exploring equivalence – introducing empty box  KMI: Equivalence, Inverse, Adding, Subtracting, notation  Mathematical thinking and reasoning | Introducing centimetres  KMI: Length, Ordering, Standard units | Adding and subtracting whole tens  KMI: Adding, Subtracting, Pattern, Mathematical thinking and reasoning | | Making and classifying polygons  KMI: Describing parts and properties of shapes invariant under transformation  Classifying shapes | Identifying the faces, edges and vertices of solid 3D shapes  KMI: Describing parts and properties of shapes invariant under transformations, | Adding and subtracting 1 and 10  KMI: Adding, Subtracting, Place value,  Mathematical thinking and reasoning |
| **Y3 Strand and activity group number** | **Pattern and Algebra 3** | **Measurement 1** | **Calculating 4** | | **Geometry 1** | **Geometry 2** | **Calculating 5** |
| **Y2 Activity group title** | Preparing for equivalence and using the ‘=’  KMI: Comparing different numbers, Equivalence, symbol  Mathematical thinking and reasoning | Comparing lengths and weights, more subtracting KMI: Pattern, Ordering, Subtracting, Mathematical thinking and reasoning | Naming number rods, investigating teen numbers and finding totals  KMI: Pattern, Ordering, Place value, Adding,  Mathematical thinking and reasoning | Exploring adding and subtracting facts to 10  KMI: Adding, Subtracting, Pattern, Inverse, Mathematical thinking and reasoning | Recognizing and naming 2D shapes  KMI: Sorting, Describing parts and properties of shapes invariant under transformations | Recognizing and imagining common 3D shapes  KMI: Sorting, Describing parts and properties of shapes invariant under transformations, Equivalence | Adding and subtracting 1 and 2  KMI: Adding, Subtracting, Pattern, Mathematical  thinking and reasoning |
| **Y2 Strand and activity group number** | **Pattern and Algebra 1** | **Securing Foundations 10**  **Pattern and Algebra Activity 1**  **Practice and Discussion** | **Securing Foundations 6 Calculating 1-2** | **Calculating 4 Part 2** | **Geometry 1** | **Geometry 3** | **Calculating 2** |

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| **Y3 Activity group title** | KMI: Rotation, Reflection, Translation, Equivalence  Investigating symmetry | Odd and even  KMI: Pattern, Adding, Subtracting, Mathematical thinking and reasoning | Partitioning into tens and units to answer adding  and subtracting problems  KMI: Adding, Subtracting, Place value, Pattern, Mathematical thinking and reasoning | Patterns and sequences of 2s, 3s, 5s and 10s  KMI: Pattern, Mathematical thinking and reasoning | | Adding and subtracting 1-digit numbers to and from 2-digit numbers  KMI: Adding, Subtracting, Pattern, Place value, Mathematical thinking and reasoning | Introducing the 20c, 50c and $1 coins  KMI: Money, Equivalence, Scaling |
| **Y3 Strand and activity group number** | **Geometry 3** | **Pattern and Algebra 4** | **Calculating 6** | **Pattern and Algebra 5** | | **Calculating 7** | **Measurement 2** |
| **Y2 Activity group title** | Making pictures, shapes and patterns  KMI: Using parts and properties of shapes, Transforming and combining shapes, Equivalence | KMI: Pattern, Mathematical thinking and Odd and even reasoning | Partitioning into tens and ones  KMI: Place value, Adding, Subtracting, Pattern, Equivalence, Mathematical thinking and reasoning | Naming number rods, investigating teen numbers and finding totals  KMI: Pattern, Ordering, Place value, Adding, Mathematical thinking and reasoning | Beginning subtracting, sorting, more number  patterns  KMI: Pattern, Ordering, Equivalence, Counting, Grouping, Subtracting, Mathematical thinking and reasoning | Partitioning into tens and ones  KMI: Place value, Adding, Subtracting, Pattern, Equivalence, Mathematical thinking and reasoning | Introducing the 1c, 2c, 5c denotations/as counters and 10c coins  KMI: Money, Equivalence |
| **Y2 Strand and activity group number** | **Geometry 2** | **Pattern and Algebra 3** | **Calculating 9**  **Activities 1, 2, 8 and 10** | **Securing Foundations 6 Pattern and Algebra Activity 1 and 2** | **Securing Foundations 8 Pattern and Algebra Activity 1–4** | **Calculating 9**  **Activities 3–7 and 9** | **Measurement 2** |

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| **Y3 Activity group title** | Introducing the $2 coin and the $5, $10 and $20 notes  KMI: Money, Equivalence, Scaling | Introducing multiplying as repeated adding  KMI: Adding, Multiplying, Mathematical thinking and reasoning | Learning times tables and about multiplying  KMI: Multiplying, Equivalence, Mathematical through arrays thinking and reasoning | Rounding  KMI: Counting, Pattern, Mathematical thinking and reasoning | | | |
| **Y3 Strand and activity group number** | **Measurement 3** | **Calculating 8** | **Calculating 9** | **Numbers and the Number System 5** | | | |
| **Y2 Activity group title** | KMI: Money, Adding, Subtracting, Pattern, Money  Mathematical thinking and reasoning | Exploring number lines and counting in steps  KMI: Counting, Pattern, Order, Mathematical thinking and reasoning | More about teen numbers, number patterns,  KMI: Pattern, Ordering, Counting, Place value, Grouping, Adding, Equivalence, Mathematical thinking and reasoning, adding | *There is no linked unit in the Numicon 1 book.*  *Therefore, we suggest you complete the following activities from Securing Foundations or revisit any earlier activities you* *have not covered or that require consolidation.* | Building Numicon Shape patterns, more repeating  patterns and number lines  KMI: Pattern, Counting, Grouping, Ordering,  Mathematical thinking and reasoning | Comparing and ordering, more patterns,  beginning calculating  KMI: Pattern, Counting, Ordering, Adding,  Mathematical thinking and reasoning | Describing relationships, more adding and  patterns in movement  KMI: Pattern, Counting, Ordering, Adding,  Mathematical thinking and reasoning |
| **Y1 Strand and activity group number** | **Calculating 3** | **Numbers and the Number System 3** | **Securing Foundations 7 Pattern and Algebra Activity 1 and 2** | **Numbers and the Number Securing Foundations 3 System 1-4** | **Numbers and the Number Securing Foundations 4 System 3-6** | **Numbers and the Number Securing Foundations 5 System 1-2** |

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| **Y3 Activity group title** | Mental strategies for near doubles and adding and subtracting 9  KMI: Adding, Subtracting, Pattern, Mathematical thinking and reasoning | Mental strategies for near doubles and adding and subtracting 9  KMI: Adding, Subtracting, Pattern, Mathematical thinking and reasoning | Adding three or more 1-digit numbers  KMI: Adding, Pattern, Mathematical thinking and reasoning | Recognizing and naming prisms and cylinders KMI: Describing parts and properties of shapes invariant under transformations, Classifying shapes, Equivalence | Bridging through multiples of 10  KMI: Adding, Subtracting, Place value, Pattern, Mathematical thinking and reasoning | Adding and subtracting 2-digit numbers to 100  KMI: Adding, Subtracting, Place value, Mathematical thinking and reasoning |
| **Y3 Strand and activity group number** | **Calculating 10** | **Calculating 10** | **Calculating 12** | **Geometry 4** | **Calculating 11** | **Calculating 13** |
| **Y2 Activity group title** | Sorting, more practical subtracting  KMI: Pattern, Equivalence, Subtracting, Mathematical thinking and reasoning | Comparing lengths and weights, more subtracting  KMI: Pattern, Ordering, Subtracting, Mathematical thinking and reasoning | Adding more than two numbers  KMI: Adding, Subtracting, Pattern, Associative property of addition, Mathematical thinking and reasoning | Comparing and naming common solid 3D shapes  KMI: Classifying shapes, Describing parts and properties of shapes invariant under transformations, Equivalence | Adding more than two numbers  KMI: Adding, Subtracting, Pattern, Associative property of addition, Mathematical thinking and reasoning | Understanding subtracting as ‘difference’ and as ‘how many more?’  KMI: Adding, Subtracting, Zero, Inverse, Mathematical thinking and reasoning |
| **Y2 Strand and activity group number** | **Securing Foundations 9 Calculating Activity 1-3** | **Securing Foundations 10 Calculating Activity 1-3** | **Calculating 8 Activities 1–9** | **Geometry 4** | **Calculating 8 Activities 10–13** | **Calculating 6** |

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| **Y3 Activity group title** | KMI: Length, Equivalence, Standard units  Introducing metres | Adding and subtracting to 20  KMI: Adding, Subtracting, Place value, Pattern, Mathematical thinking and reasoning | Introducing dividing as ‘How many ... in ... ?’  KMI: Dividing, Grouping Structure, Inverse, Multiplying, Mathematical thinking and reasoning | | Logic  KMI: Pattern, Mathematical thinking and reasoning | Halves, quarters and thirds of wholes  KMI: Fractions as operators, Multiplying, Dividing, Equivalence, Mathematical thinking and reasoning |
| **Y3 Strand and activity group number** | **Measurement 4** | **Calculating 14** | **Calculating 15** | | **Pattern and Algebra 6** | **Calculating 16** |
| **Y2 Activity group title** | Comparing, ordering and measuring lengths  KMI: Length and distance, Comparing, Ordering, Non-standard units | Developing recall of adding and subtracting facts thinking and reasoning within 10  KMI: Adding, Subtracting, Pattern, Mathematical | *There is no linked unit in the Numicon 1 book.*  *Therefore, we suggest you complete the following activities from Securing Foundations or revisit any earlier activities you* *have not covered or that require consolidation.* | More about teen numbers, number patterns,  KMI: Pattern, Ordering, Counting, Place value, Grouping, Adding, Equivalence, Mathematical thinking and reasoning adding | Logic  KMI: Pattern, Mathematical thinking and reasoning | Halves and quarters of wholes  KMI: Fractions as operators, Equivalence,  Mathematical thinking and reasoning |
| **Y2 Strand and activity group number** | **Measurement 1** | **Calculating 7** | **Securing Foundations 7**  **Numbers and the Number**  **System 1-3**  **Calculating 1-3** | **Pattern and Algebra 4** | **Calculating 5** |

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| **Y3 Activity group title** | KMI: Adding, Subtracting, Mathematical thinking  Finding all possibilities and reasoning | Introducing fractions as numbers – building on earlier work on fractions as operators (NPC2, Calc16)  KMI: Fractions as numbers, Mathematical thinking and reasoning | | | Introducing fractions as numbers – building on earlier work on fractions as operators (NPC2, Calc16)  KMI: Fractions as numbers, Mathematical thinking and reasoning | Introducing kilograms and grams  KMI: Mass and weight, Equivalence, Standard units | Introducing litres and millilitres, and units of temperature  KMI: Capacity and volume, Equivalence, Standard units |
| **Y3 Strand and activity group number** | **Pattern and Algebra 7** | **Numbers and the Number System 6** | | | **Numbers and the Number System 6** | **Measurement 5** | **Measurement 6** |
| **Y2 Activity group title** | KMI: Pattern, Mathematical thinking and Finding possibilities reasoning | *There is no linked unit in the Numicon 1 book.*  *Therefore, we suggest you complete the following activities from Securing Foundations or revisit any earlier activities you* *have not covered or that require consolidation.* | Sorting, more practical subtracting  KMI: Pattern, Equivalence, Subtracting, Mathematical thinking and reasoning | Comparing lengths and weights, more subtracting  KMI: Pattern, Ordering, Subtracting, Mathematical thinking and reasoning | Similar attributes, numbers to 20 and the ‘+’ symbol  KMI: Equivalence, Order, Counting, Grouping, Adding, Mathematical thinking and reasoning | Comparing, ordering and measuring heaviness  KMI: Mass and weight, Comparing, Ordering, Non-standard units | Comparing, ordering and measuring capacity  KMI: Capacity and volume, Equivalence, Comparing, Ordering, Non-standard units |
| **Y2 Strand and activity group number** | **Pattern and Algebra 5** | **Pattern and Algebra Activity Securing Foundations 9 1-4** | **Pattern and Algebra Activity Securing Foundations 10 2-3** | **Securing Foundations 12 Pattern and Algebra Activity 1** | **Measurement 4** | **Measurement 5** |

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| **Y3 Activity group title** | Telling the time and adding and subtracting with units of time  KMI: Time duration, Ordering, Equivalence | | Investigating and describing rotation  KMI: Rotation, Reflection, Equivalence |
| **Y3 Strand and activity group number** | **Measurement 7** | | **Geometry 5** |
| **Y2 Activity group title** | KMI: Duration, Ordering, Standard units  Units of time | KMI: Telling the time, Ordering, Standard units, Telling the time Equivalence | Position, direction and movement  KMI: Translating and rotating, Direction and orientation in movement, Equivalence |
| **Y2 Strand and activity group number** | **Measurement 3 Activity 4-5** | **Measurement 6** | **Geometry 5** |

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