Foundation Unit — AusVELS Curriculum: Mathematics

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| School name | Unit title | Duration of unit |
| St. Christopher’s, Vinifera | Place Value | Approx. 4 weeks spread throughout the school year |

| Identifying Curriculum | | |
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| Number and Algebra – Place Value | |
| During this unit children will be taught to:   * Connect number names, numerals and quantities, including zero, initially up to 10 and then beyond. | | |
| Proficiencies | | |
| At this year level: - **Foundation**  **Understanding** includes connecting names, numerals and quantities  **Fluency** includes counting numbers in sequences readily, continuing patterns, and comparing the lengths of objects directly  **Problem Solving** includes using materials to model authentic problems, sorting objects, using familiar counting sequences to solve unfamiliar problems, and discussing the reasonableness of the answer  **Reasoning** includes explaining comparisons of quantities, creating patterns, and explaining processes for indirect comparison of length. | | |

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| Relevant prior curriculum | Curriculum working towards |
| Active investigation of mathematical ideas in everyday life. | In the AusVELS Curriculum: Mathematics at Year 1  Number & Algebra   * Recognise, model, read, write and order numbers to at least 100. Locate these numbers on a number line * Count collections to 100 by [partitioning](http://acdcpuat.curriculum.edu.au/Glossary?a=M&t=partitioning) numbers using [place value](http://acdcpuat.curriculum.edu.au/Glossary?a=M&t=place+value) |
| Bridging content | |
| Throughout Foundation children build early mathematical understandings about number by:   * investigating and communicating about quantities and their representations, and attributes of objects and collections. | |
| Achievement standard | |
| Foundation:   * students make the connections between number names, numerals and quantities up to 10 | |
| Links to other learning areas | |
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| Assessment | |
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| Describe the assessment | Assessment date |
| * Relevant components of Stepping Stones Quarterly Tests * In-class observations * Portfolio Samples * MAI – Section B: Place Value |  |

| Teaching and learning | | | |
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| Teaching strategies and learning experiences | | | |
| AusVELS Content Descriptions | Stepping Stones Modules | Connection to MAI Growth Points | Stepping Stones Support Resources |
| **Connect number names, numerals and quantities, including zero, initially up to 10 and then beyond**  **(*Stepping Stones goes beyond and includes work with $1 coins)*** | Learning Experiences  Whole class  1.3, 1.4, 2.1, 2.2, 3.3, 3.4, 4.1, 4.2  Small group  1.3.1, 1.3.2, 1.4.2, 2.1.1, 2.1.2, 2.2.1, 2.2.2, 4.4.2, 3.4.1, 4.1.1, 4.1.2, 4.2.1, 4.2.2  Whole class  6.3, 6.4, 8.1, 8.2, 8.3, 8.4  Small group  6.3.1, 8.1.1, 8.1.2, 8.2.1, 8.2.2, 8.3.2, 8.4.1, 8.4.2  Whole class  12.1, 12.2  Small group  9.1.1, 9.2.1, 9.2.2, 12.1.1, 12.1.2, 12.2.2  Whole class  13.3, 13.4, 14.1, 14.2,  Small group  13.2.2, 13.3.1, 13.3.2, 13.4,1, 13.4.2, 14.1.1, 14.1.2, 14.2.1, 14.2.2 | **Place Value:**  Growth Point 1  Growth Point 2 | Mathedology:  BH01 Using a Hands-On Approach to Numbers to 10 BHO2 Using a Hands-On Approach to Represent Tens and Ones RPV2 Teaching Place Value: Teen NumbersRSRQ Developing Sight recognition of Quanity (Subitising)  Big Books:  The Bug Day Out  I See, You See  Paint A Rainbow  Fundamentals:  **More or Less (comparing quantities to 10)**  **Before and After (relative position to 10)**  **Along the Track (relative position to 10)**  **Along The Track Again (relative position of 1 to 15)**  Flare:  **Number Board Number Track Number Line Place Value** |

| Teaching and learning | | | |
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| Teaching strategies and learning experiences | | | |
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| **Subitise small collections of objects** | Learning Experiences  Whole class  3.4  Small group  1.3.2, 2.2.2, 3.2.1, 3.3.1, 3.4.2, 4.2.1, 4.2.2  Whole class  6.3, 8.2  Small group  6.3.1  Whole class  9.1  Small group  9.1.1, 9.1.2, 10.4.1  Whole class  16.2, 16.3, 16.4  Small group  13.3.2, 16.3.1, 16.3.2, 16.4.2 | **Place Value:**  Growth Point 1  Growth Point 2 |  |

| Teaching and learning | | | |
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| Teaching strategies and learning experiences | | | |
| AusVELS Content Descriptions | Stepping Stones Modules | Connection to MAI Growth Points | Stepping Stones Support Resources |
| **Compare, order & make correspondences between collections, initially to 20, & explain reasoning**  **(*Stepping Stones goes beyond and includes work with $1 coins)*** | Learning Experience  Whole class  4.1, 4.2  Small group  1.3.1, 1.3.2  Whole class  6.3, 6.4, 7.2, 8.2  Small group  5.3.2, 6.1.1, 6.3.2, 6.4.1, 6.4.2, 7.2.1, 8.1.1, 8.3.1  Whole class  14.2, 15.1, 15.3, 15.4  Small group  15.1.1, 15.1.2, 15.2.1, 15.2.2, 15.3.1, 15.3,2,15.4.1, 15.4.2 | **Counting:**  Growth Point 1  Growth Point 2 |  |

| Use feedback | |
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| Ways to monitor learning and assessment | Teachers meet to collaboratively plan the teaching, learning and assessment to meet the needs of all learners in each unit.  Teachers create opportunities for discussion about levels of achievement to develop shared understandings; co-mark or cross mark at key points to ensure consistency of judgments; and participate in moderating samples of student work at school or cluster level to reach consensus and consistency. |
| Feedback to students | Teachers strategically plan opportunities and ways to provide ongoing feedback (both written and informal) and encouragement to children/students on their strengths and areas for improvement.  Children/Students reflect on and discuss with their teachers or peers what they can do well and what they need to improve.  Teachers reflect on and review learning opportunities to incorporate specific learning experiences and provide multiple opportunities for children to experience, practise and improve. |
| Reflection on the unit plan | Identify what worked well during and at the end of the unit, including:   * activities that worked well and why * activities that could be improved and how * assessment that worked well and why * assessment that could be improved and how * common student misconceptions that need, or needed, to be clarified. |