

Mathletics

South Australia (Australian Curriculum v9)

Scope & Sequence



Foundation

Mathletics







| | Term one | Term two | Term three | Term four |
|--------|---|--|--|---|
| Unit 1 | Number | Number | Number | Number |
| | Numbers to 10 <ul style="list-style-type: none"> Name and represent Count groups Ordinal numbers to 10 | Numbers to at least 20 <ul style="list-style-type: none"> Name and represent Count groups Ordinal numbers | Addition and subtraction to 10 <ul style="list-style-type: none"> Represent addition and subtraction problems using objects Use counting strategies to add/subtract Relate addition and subtraction to everyday situations | Number review Review earlier content |
| Unit 2 | Algebra | Statistics | Number Algebra Space | Number |
| | Patterns <ul style="list-style-type: none"> Recognise, copy and describe different repeating patterns | Data: Collection, sorting & display <ul style="list-style-type: none"> Ask simple questions Collect data Sort and display data | Patterns <ul style="list-style-type: none"> Recognise and discuss repeating patterns in images, and digital technology Introducing number patterns | Operations: Problem solving <ul style="list-style-type: none"> Practical applications with collections |
| Unit 3 | Number | Space | Number | Statistics |
| | Collections to 10 <ul style="list-style-type: none"> Subitise collections up to 5 Partition and combine using objects Add to/take away using objects | 2D shapes <ul style="list-style-type: none"> Sort, name and create familiar shapes | Sharing and grouping to 10 <ul style="list-style-type: none"> Represent and solve equal sharing problems using objects Represent and solve equal grouping problems using objects | Data: Representation and interpretation <ul style="list-style-type: none"> Compare results Interpret representations of others' displays |
| Unit 4 | Measurement | Number | Space | Measurement |
| | Mass and capacity <ul style="list-style-type: none"> Use appropriate language, eg, heavier Directly compare Explore everyday use of mass and capacity | Collections to 20 <ul style="list-style-type: none"> Partition and combine using objects Add to/take away using objects | 2D shapes <ul style="list-style-type: none"> Recognise and describe familiar shapes within objects in the environment | Measurement review and applications <ul style="list-style-type: none"> Practical applications of measurement |
| Unit 5 | Measurement | Measurement | Space | Space |
| | Time <ul style="list-style-type: none"> Days of the week Familiar activities/times of the day Sequence events Create a simple roster or schedule | Length <ul style="list-style-type: none"> Use appropriate language, eg, longer Directly compare Explore everyday use of length | Position <ul style="list-style-type: none"> Describe the position and location of people and items | Shape and position review Review earlier content |

| Strand | Outcomes and content descriptions | Located | | | |
|--------------------|--|---------------------|---------------------|-----------------|-----------------|
| Number | AC9MFN01 name, represent and order numbers including zero to at least 20, using physical and virtual materials and numerals | T1 U1 | T2 U1, U4 | T3 U2 | T4 U1 |
| | AC9MFN02 recognise and name the number of objects within a collection up to 5 using subitising | T1 U1 | | | T4 U1 |
| | AC9MFN03 quantify and compare collections to at least 20 using counting and explain or demonstrate reasoning | | T2 U1, U4 | | T4 U2 |
| | AC9MFN04 partition and combine collections up to 10 using part-part-whole relationships and subitising to recognise and name the parts | T1 U3 | | T3 U1 | T4 U2 |
| | AC9MFN05 represent practical situations involving addition, subtraction and quantification with physical and virtual materials and use counting or subitising strategies | T1 U3 | | T3 U1 | T4 U2 |
| | AC9MFN06 represent practical situations involving equal sharing and grouping with physical and virtual materials and use counting or subitising strategies | | | T3 U3 | T4 U2 |
| Algebra | AC9MFA01 recognise, copy and continue repeating patterns represented in different ways | T1 U2 | | T3 U2 | |
| Measurement | AC9MFM01 identify and compare attributes of objects and events, including length, capacity, mass and duration, using direct comparisons and communicating reasoning | T1 U4, U5 | T2 U5 | | T4 U4 |
| | AC9MFM02 sequence days of the week and times of the day including morning, lunchtime, afternoon and night time, and connect them to familiar events and actions | T1 U5 | | | T4 U4 |
| Space | AC9MFSP01 sort, name and create familiar shapes; recognise and describe familiar shapes within objects in the environment, giving reasons | | T2 U3 | T3 U4 | T4 U5 |
| | AC9MFSP02 describe the position and location of themselves and objects in relation to other people and objects within a familiar space | | | T3 U5 | T4 U5 |
| Statistics | AC9MFST01 collect, sort and compare data represented by objects and images in response to given investigative questions that relate to familiar situations | | T2 U2 | | T4 U3 |

| Strand | Topic | Outcomes | Activities (Courses) | Ebooks |
|------------------------------|--|--|---|---|
| Unit 1 Number | Numbers to 10 Name and represent Count groups Ordinal numbers to 10 | AC9MFN01 name, represent and order numbers including zero to at least 20, using physical and virtual materials and numerals AC9MFN02 recognise and name the number of objects within a collection up to 5 using subitising | Numbers to 10 <ul style="list-style-type: none"> Count to 5 How Many? Concept of zero Matching numbers to 10 Dot Display Ordinal numbers | (YF-A) Numbers and Patterns <ul style="list-style-type: none"> Numbers to ten (pp 1–20) Ordinal numbers (pp 41–44) |
| Unit 2 Algebra | Patterns Recognise, copy and describe different repeating patterns | AC9MFA01 recognise, copy and continue repeating patterns represented in different ways | Patterns <ul style="list-style-type: none"> Simple Patterns Missing it! Colour Patterns Complete the Pattern Pattern Error | (YF-A) Numbers and Patterns <ul style="list-style-type: none"> Patterns (pp 45–48) |
| Unit 3 Number | Collections to 10 Subitise collections up to 5 Partition and combine using objects Add to/take away using objects | AC9MFN04 partition and combine collections up to 10 using part-part-whole relationships and subitising to recognise and name the parts AC9MFN05 represent practical situations involving addition, subtraction and quantification with physical and virtual materials and use counting or subitising strategies | Numbers to 10 <ul style="list-style-type: none"> Order Numbers to 10 More, less or the same to 10 | (YF-A) Operations with Number <ul style="list-style-type: none"> Addition (pp 1–20) Subtraction (pp 21–36) |
| Unit 4 Measurement | Mass and capacity Use appropriate language, eg, heavier Directly compare Explore everyday use of mass and capacity | AC9MFM01 identify and compare attributes of objects and events, including length, capacity, mass and duration, using direct comparisons and communicating reasoning | Measurement <ul style="list-style-type: none"> Which Holds More? Balancing Act | (YF-A) Measurement <ul style="list-style-type: none"> Mass (pp 16–23) Volume and capacity (pp 24, 30-35) |
| Unit 5 Measurement | Time Days of the week Familiar activities/times of the day Sequencing events Create a simple roster or schedule | AC9MFM01 identify and compare attributes of objects and events, including length, capacity, mass and duration, using direct comparisons and communicating reasoning AC9MFM02 sequence days of the week and times of the day including morning, lunchtime, afternoon and night time, and connect them to familiar events and actions | Time <ul style="list-style-type: none"> Days of the Week Days: After and Before Weekdays and Weekends Tomorrow and Yesterday (Scaffolded) | (YF-A) Time, Money and Data <ul style="list-style-type: none"> Time (pp 1–17) |

| Strand | Topic | Outcomes | Activities (Courses) | Ebooks |
|------------------------------|---|---|---|--|
| Unit 1 Number | Numbers to at least 20 Name and represent Count groups Ordinal numbers | AC9MFN01 name, represent and order numbers including zero to at least 20, using physical and virtual materials and numerals AC9MFN03 quantify and compare collections to at least 20 using counting and explain or demonstrate reasoning | Numbers to 20 <ul style="list-style-type: none"> • Making teen numbers • Counting up to 20 • Counting Back Within 20 • Matching numbers to 20 • Before, After and Between to 20 • Order Numbers to 20 • More, less or the same to 20 Numbers to 30 <ul style="list-style-type: none"> • Reading numbers to 30 • 1 to 30 • 1st to 31st | (YF-A) Numbers and Patterns <ul style="list-style-type: none"> • Numbers to 20 (pp 21–31) • Numbers to 30 (pp 32–36) (Y2-C) Numbers <ul style="list-style-type: none"> • Ordinal numbers (pp 52–56) |
| Unit 2 Statistics | Data: Collection, sorting & display Ask simple questions Collect data Sort and display data | AC9MFST01 collect, sort and compare data represented by objects and images in response to given investigative questions that relate to familiar situations | Simple data <ul style="list-style-type: none"> • Same and Different • Sort It | (YF-A) Measurement <ul style="list-style-type: none"> • Data (pp 31–36) |
| Unit 3 Space | 2D Shapes Sort, name and create familiar shapes | AC9MFSP01 sort, name and create familiar shapes; recognise and describe familiar shapes within objects in the environment, giving reasons | Shape & position <ul style="list-style-type: none"> • Collect Simple Shapes | (YF-A) Space and Shape <ul style="list-style-type: none"> • 2D space (pp 1–14) |
| Unit 4 Number | Collections to 20 Partition and combine using objects Add to/take away using objects | AC9MFN01 name, represent and order numbers including zero to at least 20, using physical and virtual materials and numerals AC9MFN03 quantify and compare collections to at least 20 using counting and explain or demonstrate reasoning | | |
| Unit 5 Measurement | Length Use appropriate language, eg, longer Directly compare Explore everyday use of length | AC9MFM01 identify and compare attributes of objects and events, including length, capacity, mass and duration, using direct comparisons and communicating reasoning | Measurement <ul style="list-style-type: none"> • Everyday Length • Comparing Length | (YF-A) Measurement <ul style="list-style-type: none"> • Length (pp 1–15) |

| Strand | Topic | Outcomes | Activities (Courses) | Ebooks |
|---|---|--|--|---|
| Unit 1 Number | Addition and subtraction to 10 Represent addition and subtraction problems using objects Use counting strategies to add/subtract Relate addition and subtraction to everyday situations | AC9MFN04 partition and combine collections up to 10 using part-part-whole relationships and subitising to recognise and name the parts AC9MFN05 represent practical situations involving addition, subtraction and quantification with physical and virtual materials and use counting or subitising strategies | Partition & combine <ul style="list-style-type: none"> • How many dots? • Adding to make 5 and 10 • Add and subtract using graphs | |
| Unit 2 Algebra Number Space | Patterns Recognise and discuss repeating patterns in images, and digital technology Introducing number patterns | AC9MFA01 recognise, copy and continue repeating patterns represented in different ways AC9MFN01 name, represent and order numbers including zero to at least 20, using physical and virtual materials and numerals | | (YF-A) Numbers and Patterns <ul style="list-style-type: none"> • Patterns (pp 49–54) |
| Unit 3 Number | Sharing and grouping to 10 Represent and solve equal sharing problems using objects Represent and solve equal grouping problems using objects | AC9MFN06 represent practical situations involving equal sharing and grouping with physical and virtual materials and use counting or subitising strategies | Equal sharing & grouping <ul style="list-style-type: none"> • Share the treasure • Divide into equal groups • Fill the jars | (YF-A) Operations with Number <ul style="list-style-type: none"> • Grouping and sharing (pp 37–44) |
| Unit 4 Space | 2D shapes Recognise and describe familiar shapes within objects in the environment | AC9MFSP01 sort, name and create familiar shapes; recognise and describe familiar shapes within objects in the environment, giving reasons | Shape & position <ul style="list-style-type: none"> • Match the Solid 1 | (YF-A) Space and Shape <ul style="list-style-type: none"> • 3D space (pp 15–22) |
| Unit 5 Space | Position Describe the position and location of people and items | AC9MFSP02 describe the position and location of themselves and objects in relation to other people and objects within a familiar space | Shape & position <ul style="list-style-type: none"> • Where is it? | (YF-A) Space and Shape <ul style="list-style-type: none"> • Position (pp 23–28) |

| Strand | Topic | Outcomes | Activities (Courses) | Ebooks |
|------------------------------|--|---|--|---|
| Unit 1 Number | Number review | <p>AC9MFN01 name, represent and order numbers including zero to at least 20, using physical and virtual materials and numerals</p> <p>AC9MFN02 recognise and name the number of objects within a collection up to 5 using subitising</p> |  Review earlier content |  Review earlier content |
| Unit 2 Number | Operations: Problem solving Practical applications with collections | <p>AC9MFN03 quantify and compare collections to at least 20 using counting and explain or demonstrate reasoning</p> <p>AC9MFN04 partition and combine collections up to 10 using part-part-whole relationships and subitising to recognise and name the parts</p> <p>AC9MFN05 represent practical situations involving addition, subtraction and quantification with physical and virtual materials and use counting or subitising strategies</p> <p>AC9MFN06 represent practical situations involving equal sharing and grouping with physical and virtual materials and use counting or subitising strategies</p> | | <p>(YF-A) Numbers and Patterns</p> <ul style="list-style-type: none"> Number relationships (pp 55–60) |
| Unit 3 Statistics | Data: Representation and interpretation Compare results Interpret representations of others' displays | <p>AC9MFST01 collect, sort and compare data represented by objects and images in response to given investigative questions that relate to familiar situations</p> | <p>Simple data</p> <ul style="list-style-type: none"> Comparing groups of objects | <p>(YF-A) Measurement</p> <ul style="list-style-type: none"> Data (pp 36–39) |
| Unit 4 Measurement | Measurement review and applications | <p>AC9MFM01 identify and compare attributes of objects and events, including length, capacity, mass and duration, using direct comparisons and communicating reasoning</p> <p>AC9MFM02 sequence days of the week and times of the day including morning, lunchtime, afternoon and night time, and connect them to familiar events and actions</p> |  Review earlier content |  Review earlier content |
| Unit 5 Space | Shape and position review | <p>AC9MFSP01 sort, name and create familiar shapes; recognise and describe familiar shapes within objects in the environment, giving reasons</p> <p>AC9MFSP02 describe the position and location of themselves and objects in relation to other people and objects within a familiar space</p> |  Review earlier content |  Review earlier content |

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