**07. Pattern Creation & 08. Collecting Data**

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| **Elements** | * Understanding and Connecting
 | * Communicating
 | * Reasoning
 | * Applying and Problem-Solving
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| **Pedagogical Practices** | * Using cognitively challenging tasks
 | * Promoting maths talk
 | * Fostering productive disposition
 | * Encouraging playfulness
 | * Emphasising mathematical modeling
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| **Linkage and****Integration** |
| **Number:** Sets and Operations**Number:** Numeration and Counting |
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| **Differentiation** |
| Alter pace as required.Use low-threshold high-ceiling tasks and parallel tasks.Provide concrete resources.Use the Extension Activities to provide extra challenge. |
| **Assessment** |
| **Intuitive Assessment**Use maths talk, key questions and observation to assess children as they engage in learning experiences.**Planned Interactions**Use key questions to discuss children’s work with them as they engage in learning experiences.**Assessment Events**Student Book pages 18–21*Maths My Way* Autumn Assessment. |
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| **Strand and Strand Unit** | **Learning****Outcome(s)** | **Mathematical****Concept(s)** | **Mathematical****Language** | **Focus of****New Learning** | ✓ | **Learning****Experiences** |
| **Week 1** | **Algebra:** Patterns, Rules and Relationships | Explore, extend and create patterns and sequences. | * A pattern is an arrangement of elements organised according to a defined structure or rule.
* A sequence is a list of objects or actions that follow an order.
* There are patterns and sequences to everyday routines and events, from which predictions can be made.
* Repeating patterns are made up of units of repeat and do not contain random elements.
 | patternrepeatsequencepattern rule same different order before afternext | 1. Recognise and copy patterns.
 |  | * Watch a video about patterns in the real world.
* Create a patterned tower with blocks or cubes.
* Create a pattern using a string and beads.
* Use Maths Eyes to find, describe and record patterns in nature or patterns in the classroom.
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| 1. Copy and continue patterns.
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| 1. Explore and create patterns.
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| 1. Create more patterns.
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| **Week 2** | **Data and Chance**: Data | Explore, interpret and explain data in a variety of ways for a range of purposes. | * Data is all around us and helps us interpret the world.
* A data set is a collection of information that can provide answers to questions we ask.
* Data can be collected and represented in many ways.
* Data displays (e.g. tables, graphs) are a useful way of conveying information.
* Objects and sets can be sorted according to one or more attributes.
 | block graphstally markspictogram ‘How many?’ moreless samedifferent mostleast | 1. Introduce data collection.
 |  | * Write numbers from number cards using tally marks.
* Listen to the songs ‘Humpty Dumpty’ and ‘Mr Golden Sun’ and keep a tally of certain words that repeat.
* Create a pictogram to represent data collected from a question asked to classmates.
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| 1. Record data using tally marks.
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| 1. Represent data using pictograms.
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| 1. Represent data using block graphs.
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**Overview**



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| **Week 1** | **Lesson 1** | **Lesson 2** | **Lesson 3** | **Lesson 4** | **Lesson 5** |
| **Focus of New Learning** | Recognise and copy patterns. | Copy and continue patterns. | Explore and create patterns. | Create more patterns. | Weekly review. |
| **Slides** | 7.1 | 7.2 | 7.3 | 7.4 | 7.5 |
| **Book** |  | p.18  |   | p.19  |   |
| **Concrete Resources** | Beads, blocks, any classroom material that could be used to form a pattern like crayons or playdough |
| **Digital Resources** | 7. Pattern Creation: Game7. Pattern Creation: Printables | 7. Planet Maths: Blob Patterns7. Planet Maths: Patterns |

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| **Week 2** | **Lesson 1** | **Lesson 2** | **Lesson 3** | **Lesson 4** | **Lesson 5** |
| **Focus of New Learning** | Introduce data collection. | Record data using tally marks. | Represent data using pictograms. | Represent data using block graphs. | Weekly review. |
| **Slides** | 8.1 | 8.2 | 8.3 | 8.4 | 8.5 |
| **Book** |  |  |  | p.20 | p.21 |
| **Concrete Resources** | Sticky notes, dice |
| **Digital Resources** | 8. Collecting Data: Game8. Collecting Data: Printables | 8. Planet Maths: What Can You See? |