

# MATHS BOX 5 Level 3

KEY  
 ✓ – New Zealand Curriculum Mathematics focus  
 • – Additional curriculum links

	NUMBER AND ALGEBRA				GEOMETRY AND MEASUREMENT				STATISTICS						
	Number Strategies	Number Knowledge		Equations and expressions	Patterns and Relationships	Measurement	Shape	Position and Orientation	Transformation	Statistical Investigation	Probability				
	Use a range of additive and simple multiplicative strategies with whole numbers, fractions, decimals, and percentages	Know counting sequences for whole numbers	Know how many tenths, tens, hundreds, and thousands are in whole numbers	Know basic multiplication and division facts	Know fractions and percentages in everyday use	Record and interpret additive and multiplicative strategies, using words, diagrams, and symbols, with an understanding of equality	Generalise the properties of addition and subtraction, with whole numbers	Connect members of sequential patterns with their ordinal position and use tables, graphs, and diagrams to find relationships between successive elements, numbers and spatial patterns	Use linear scales and whole numbers of metric units for length, area, volume and capacity, weight (mass), angle, temperature, and time	Find areas of rectangles and volumes of cuboids by applying multiplication	Classify plane shapes and prisms by their spatial features	Use a co-ordinate system or the language of direction and distance to identify locations and describe paths	Describe the transformation (reflection, rotation, translation, or enlargement) that have mapped one object onto another	Conduct investigations using the statistical inquiry cycle – gathering, sorting, and displaying multivariate data and simple time-series to answer questions – identifying patterns and trends in context, within and between data sets – communicating findings, using data displays	Investigate simple situations that involve elements of chance by comparing experimental results with expectations from models of all the outcomes, acknowledging that samples vary
<b>NUMBER AND ALGEBRA</b>															
1. Monster Numbers		✓	✓												
2. Build up the Partitions			✓												
3. Operation Population		✓	✓												
4. Round Up! Round Down!	✓		✓												
5. Round and Round	✓		✓												
6. Educated Guessing	✓			✓											
1. Accurate Answers?	✓		•	✓											
2. Fun with Factors	✓			✓											
3. Magnificent Multiples	✓			✓											
4. Common Factor Factory	✓			✓											
5. Factors and Multiples are a Real Problem!	✓			✓		•									
6. Prime or Composite?	✓			✓			•								
7. Hurray for Arrays	✓			✓											
8. Divisibility Rules! Yeah!	✓			✓											
9. Special Numbers	✓			✓											
10. Cooking Complications	✓			✓											
11. Zombie High School	✓			✓			•								
1. Pizza Fraction Order	✓				✓										
2. Fraction Line Up	✓				✓										
3. Lake Holiday	✓				✓										
4. Fraction Shapes	✓				✓										
5. Equivalent Fractions	✓				✓										
6. Sloppy Sam's Soup Kitchen	✓	✓			✓										
7. Fast Food Fractions	✓						•								
8. Fraction Frenzy Forgotten	✓			✓			•								
9. Make it Simple	✓			✓			•								
10. Multiplying Fractions	✓			✓			•								
11. Gauge the Decimals	✓	✓		✓											
12. Place Value	✓		✓				•								
13. Dividing by 10 and 100	✓			✓											
14. Sports Day	✓		✓												
15. Rounding Decimals	✓		✓												
16. Decimal Expanders	✓		✓												
17. Order in the Library	✓			✓											
18. Percentages	✓														
1. Patterns with Whole Numbers															
2. Patterns with Fractions		✓				•									
3. Patterns with Decimals		✓													
4. It's all Equal in the End!	✓				✓										
5. Secret Algebra	•				•										
6. Same Same but Different Quiz Show	✓			✓		•									
7. Even Colder than Freezing!	✓														
<b>GEOMETRY</b>															
1. Sorting Shapes															
2. Joining and Splitting Shapes											✓				
3. Net a Whacky 3-D Character											✓				
4. Is That What I Look Like?											•	✓			
5. Exploring Angles											✓				
6. What's Your Angle?											✓				
7. Real Life Angles		•									✓				
8. The Protractor Series		•									✓				
9. Surprising Symmetry												✓			
10. Pioneer Village											✓				
11. Shopping Centre Coordinates											✓				
12. Where Shall We Go Today?											✓				
<b>MEASUREMENT – LENGTH, WEIGHT AND CAPACITY</b>															
1. Everyday Decimals: Measurement											✓				
2. Jockey Weights											✓				
3. Everyday Decimals: Weight/Capacity											✓				
4. Nursery Rhyme Conversions											✓				
5. Perimeter											✓				
6. Measuring the Shopping Centre											✓				
7. Farmer Joe											✓				
8. Putting in a Pool											✓				
<b>MEASUREMENT – TIME</b>															
1. Times to Fly ...											✓				
2. 24 Hours a Day											✓				
3. Tidal Time											✓				
4. Fitness 24 Hours a Day											✓				
<b>STATISTICAL INVESTIGATION</b>															
1. Games of Chance															✓
2. Buy a Bat and Win!															✓
3. Fantasy Games															✓
4. Lucky Dip		•													✓
5. Terrific Tables														✓	
6. Digital Data Displays														✓	
7. Town Planning Data														✓	
8. Graph The Weather														✓	
9. Time for Timetables														✓	