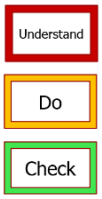
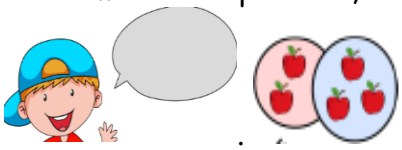
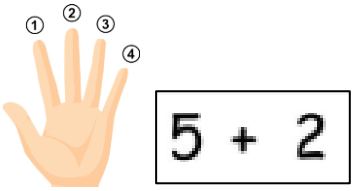
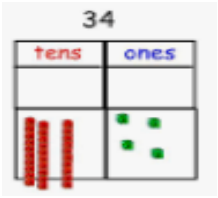
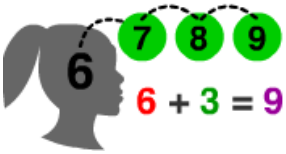
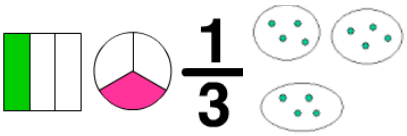
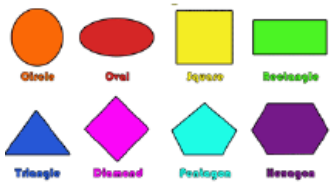
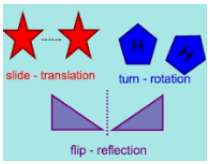
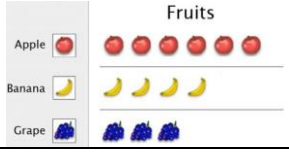
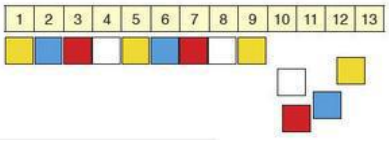
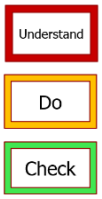
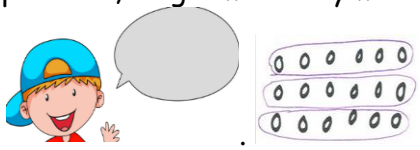
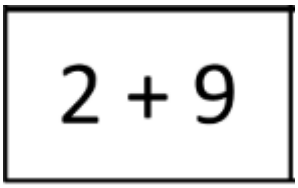
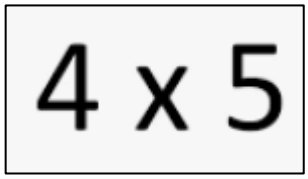
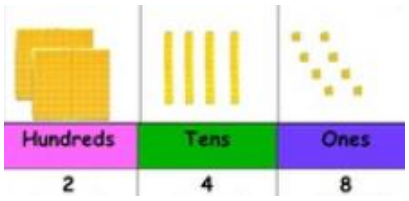
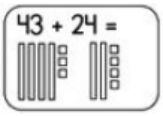
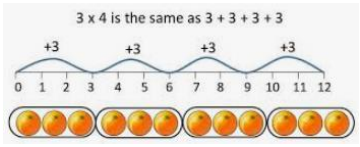
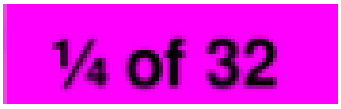
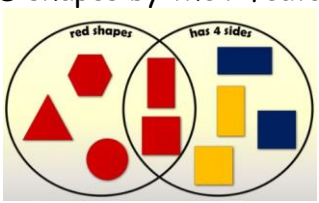
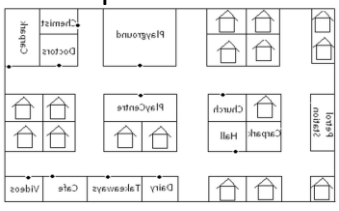
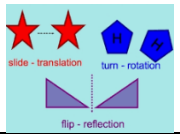
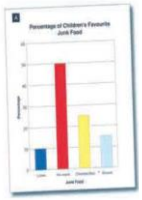
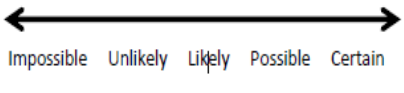
What are we learning in maths? NZC Level 1 Years 1-2

Understand word problems and know what to do to solve them 	Clearly explain and show how I solve problems with words, numbers and pictures, 	Understand and use maths language
Know basic facts to 5, and facts with 5 	Know groupings within 10 	Read, write, count and order numbers to 100 
Solve addition & subtraction problems like 47 + 7 by counting on or counting back 	Solve simple multiplication and division problems by counting in 1's or skip counting 5 x 2 	Find a fraction of a shape Find simple fractions of numbers by equal sharing 
Measure, order and compare objects by counting the number of units (non-standard) (length, mass, area, volume, capacity, turn, temp)	Tell time o'clock, half past, and quarter past 	Solve simple measurement, time, and money problems
Sort objects by their shape and size 	Give and follow simple directions using distances (number of steps), direction, and half or quarter turns 	Talk about and show shape transformations; reflect (flip), rotate (turn) translate (slide) 
Carry out a statistical investigation. Collect, sort, count and display category data to answer a question. 	Talk about and explore simple chance events. 	Copy, create and continue simple repeating shape or number patterns 

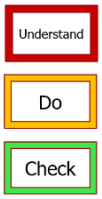
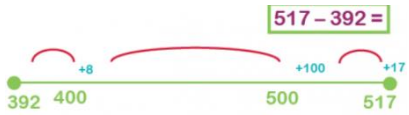
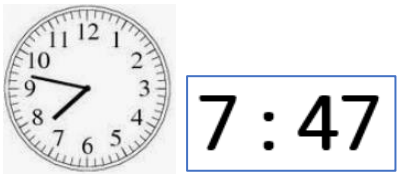
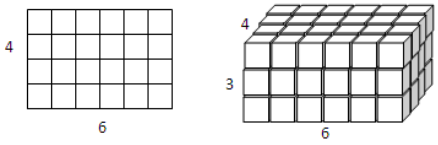
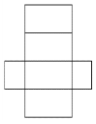
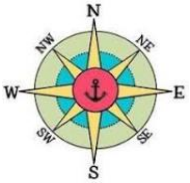
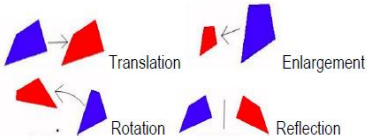
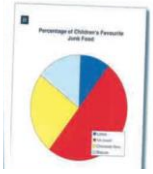
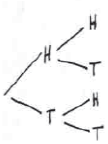
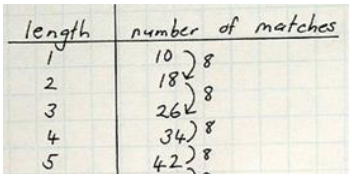
Marie Hirst, Special Addition

What are we learning in maths? NZC Level 2 Years 3-4

Understand word problems and know what to do to solve them 	Clearly explain and show how I solve problems with words, pictures, diagrams and symbols 	Understand and use maths language
Know basic addition & subtraction facts to 20 	Know x2,5 10 (and 3, 4) basic multiplication facts 	Read, write, count and order numbers to 1000 
Solve addition & subtraction problems like 57 + 29 by breaking numbers into parts and using my basic facts 	Solve multiplication and division problems like 7 x 4 by using addition or known facts 	Know common fractions. Find fractions of shapes lengths and numbers 
Measure objects using measuring tools and simple units e.g. cm, m, g, kg, ml, l. (length, mass, area, volume, capacity, turn, temp)	Tell time to the nearest 5 minutes, e.g. 12:25 	Solve measurement, time and money related problems
Identify, describe and sort 2D & 3D shapes by their features 	Use simple maps to describe and show position & direction 	Talk about, predict and show shape transformations; reflection (flip), rotation (turn) and translation (slide) 
Carry out a statistical investigation Collect, sort and display category and number data to answer a question. 	Explore and compare simple chance events e.g. likely, unlikely, equally likely, uncertain, 	Find and use a rule to know what comes comes next in a number or sequential pattern RULE: add 4

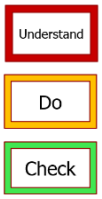
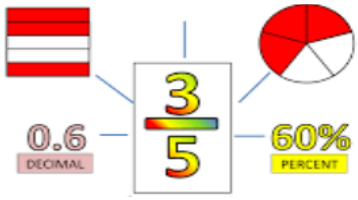
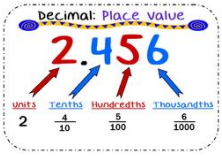
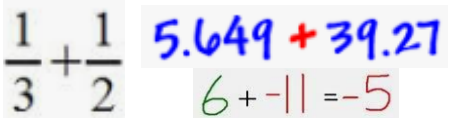
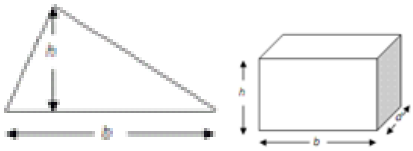
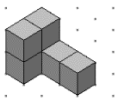
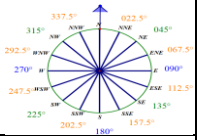
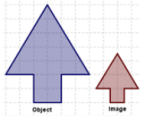
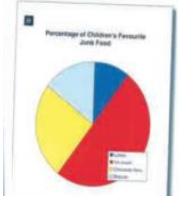
Marie Hirst, Special Addition

What are we learning in maths? NZC Level 3 Years 5-6

Understand word problems and know what to do to solve them 	Clearly explain and show how I solve problems with words, diagrams, symbols & equations 	Understand and use maths language
Know basic facts add/sub and mult/div 	Read, write, count and order whole numbers Understand decimal tenths 	Know everyday fractions and percentages
Solve addition & subtraction problems with whole numbers like 517 - 392 by choosing the best method for the question 	Solve multiplication and division problems with whole numbers using place value (tens & ones) and basic facts 4 x 32	Solve problems with fractions and ratios using multiplication $\frac{3}{5}$ of 45
Measure objects using appropriate standard units and scales (length, mass, area, volume, capacity, angle, temp) 	Tell time to the nearest minute and solve time-related problems 	Use multiplication to find areas of rectangles and volumes of cuboids 
Identify, describe & sort 2D & 3D shapes. Make simple nets  Draw or make objects from different view-points (top, front, side) 	Describe locations and give directions on maps using grid references, simple scales & compass points 	Describe transformations (reflection, rotation, translation and enlargement) 
Conduct statistical investigations. Collect, sort & display data (number, category, and time-series) to answer a question. Identify patterns and trends and make simple comparisons 	Explore chance situations by listing all expected possible outcomes and compare with experimental results. Know samples may vary. 	Describe and continue number patterns using multiplication, tables, graphs and diagrams 

Marie Hirst, Special Addition

What are we learning in maths? NZC Level 4 Years 7-8

Understand word problems and know what to do to solve them 	Clearly explain and show how I solve problems with words, diagrams symbols and equations 	Understand & use maths language
Know all the basic facts including square roots and divisibility rules for 2,3,5,9,10 $\sqrt{64} = 8$	Know equivalent fractions, decimas and percentages 	Read, write and order positive and negative integers and decimals to 3dp 
Add and subtract whole numbers, decimals, fractions and integers using the best method for the question 	Solve multiplication and division problems with whole numbers by choosing the best method. Find fractions, decimals and percentages of amounts 	Use equivalent fractions to order and operate with fractions (+ - x ÷) and solve problems with rates and ratios
Measure objects precisely using appropriate units, scales & measuring tools. Convert between metric units. *length, mass, area, volume, capacity, angle, temp*	Confidently read time and 24-hour clocks. Interpret and use scales, timetables, and charts 	Find perimeters and areas of rectangles, parallelograms, & triangles & volumes of cuboids 
Sort and classify 2D & 3D shapes. Make accurate nets for prisms and other solids Draw or make objects from different view-points (top, front and side) and 3-D perspective view. 	Accurately describe locations and give directions on maps using distances, scales, compass directions (& bearings) and grid references 	Describe transformations (reflection, rotation, translation or enlargement) and know what properties of shapes don't change when they are transformed. 
Conduct statistical investigations. Collect, sort & display data (category, number, measurement, & time-series). Compare data and identify patterns, relationships and trends. 	Explore chance situations by comparing experimental results with models of possible outcomes considering variation and independence. Use simple fractions & percentages to describe probabilities 	Form and solve simple algebraic equations like $2x + 6 = 20$ Describe number and spatial patterns using graphs, tables, and rules

Marie Hirst, Special Addition