

**INDEX Grade 8 2013**

ACT	CONCEPT	ACT	CONCEPT
1	Doing calculations	41	Like terms: whole numbers
2	Multiples and factors	42	Like terms: integers
3	Exponents	43	Writing number sentences
4	Integers	44	Set up algebraic equations
5	Common fractions	45	Additive inverse and reciprocal
6	Percentages and decimal fractions	46	Balance an equation
7	Input and output	47	Substitution
8	Algebraic expressions and equations	48	Algebraic equations
9	Graphs	49	Solving problems
10	Financial mathematics	50	Divide monomials, binomials, trinomials
11	Geometric figures	51	Simplify algebraic expressions
12	Transformations	52	Calculate square numbers, cube numbers
13	Geometric objects	53	Multiple operations: rational numbers
14	Perimeter and area	54	Multiple operations
15	Volume and surface area	55	Division operations
16	Data	56	Construction geometric figures
17	Natural, whole and intergers	57	Construction with a protractor
18	Commutative, associative, distributive	58	Parallel and perpendicular lines
19	Factors, prime factors and factorising	59	Construct angles and a triangle
20	Multiples and the lowest common multiple	60	The sum of interior angles of any triangle
21	HCF and LCM of three numbers	61	Constructing quadrilaterals
22	Sequences that involve integers	62	Constructing polygons
23	Calculations with multiple operations	63	More about polygons
24	Properties of numbers and integers	64	Triangles and quadrilaterals
25	Square .. , cube numbers and exponents	65	Similar Triangles
26	Square numbers and square roots	66	Congruent triangles
27	Representing square roots	67	Similar Triangles problems
28	Cube numbers and roots	68	Quadrilaterals, triangles & angles
29	Representing cube roots	69	Triangles and quadrilaterals
30	Scientific notation	70	Diagonals
31	Laws of exponents	71	Quadrilaterals, angles and diagrams
32	Laws of exponents	72	Parallel and perpendicular lines
33	Laws of exponents	73	Pairs of angles
34	Laws of exponents	74	Problems
35	Calculations with exponents	75	Geometric figures puzzle fun
36	Calculations with multiple operations	76	Finances - profit, loss and discount
37	Calculating with exponents	77	Finances - Budget
38	Numeric patterns	78	Finances - Loans ans interest
39	Input and output values	79	Finances - Hire purchase
40	Algebraic vocabulary	80	Finances - Exchange rates

**INDEX Grade 8 Book2 2013**

ACTIVITY	CONCEPT	ACTIVITY	CONCEPT
81	Add and subtract fractions	121	Patterns
82	Multiply fractions	122	Input and output values
83	Divide common fractions	123	Geometric patterns
84	Fractions, of squares, cubes, ..	124	Geometric sequences
85	Fractions, decimals & percentages	125	Input and output values
86	Percentage problems	126	Tables
87	Place value, ordering and comp.	127	Algebraic equations

<b>88</b>	Round off rational numbers	<b>128</b>	Algebraic equations: ordered pairs
<b>89</b>	Equivalence between common fr	<b>129</b>	Algebraic equations
<b>90</b>	Add, subtract, multiply decimals	<b>130</b>	Interpreting and drawing graphs
<b>91</b>	Dividing decimals	<b>131</b>	Interpreting and drawing graphs
<b>92</b>	Squares and rational numbers	<b>132</b>	Interpreting graphs
<b>93</b>	Pythagoras' theorem	<b>133</b>	The Cartesian plane
<b>94</b>	Theorem of Pythagoras	<b>134</b>	Ordered pairs
<b>95</b>	Theorem of Pythagoras	<b>135</b>	Cartesian plane: four quadrants
<b>96</b>	Theorem of Pythagoras	<b>136</b>	Drawing graphs by plotting points
<b>97</b>	Theorem of Pythagoras	<b>137</b>	Transformation
<b>98</b>	Area and perimeter of a square	<b>138</b>	Reflection
<b>99</b>	Area and perimeter of a rectangle	<b>139</b>	Rotation
<b>100</b>	Area of a triangle	<b>140</b>	Translations
<b>101</b>	Area and perimeter of a circle	<b>141</b>	Enlargement and reduction
<b>102</b>	Area and perimeter Problem solving	<b>142</b>	Enlargement and reduction problems
<b>103</b>	Surface area, volume and capacity	<b>143</b>	Platonic solids
<b>104</b>	Surface area, volume and capacity	<b>144</b>	Platonic solids
<b>105</b>	Surface area, volume and capacity	<b>145</b>	Presenting platonic solids
<b>106</b>	Surface area, volume and capacity	<b>146</b>	Surfaces, vertices and edges
<b>107</b>	Surface area, volume : problems	<b>147</b>	Regular and irregular
<b>108</b>	Data collection	<b>148</b>	Constructing a net pyramid; prism
<b>109</b>	Organise data	<b>149</b>	Constructing a net pyramid; prism
<b>110</b>	Summarise data	<b>150</b>	Views
<b>111</b>	Bar graphs	<b>151</b>	Possible outcomes
<b>112</b>	Double Bar graphs	<b>152</b>	Probability
<b>113</b>	Histograms	<b>153</b>	Relative frequency
<b>114</b>	More on Histograms	<b>154</b>	Probability and relative frequency
<b>115</b>	Pie charts	<b>155</b>	Problem solving
<b>116</b>	Broken line graph	<b>156</b>	Problem solving
<b>117</b>	Select the right graph	<b>157</b>	Revision: Part1
<b>118</b>	Report data	<b>158</b>	Revision: Shape and space
<b>119</b>	Data handling cycle	<b>159</b>	Revision: Measurement
<b>120</b>	Data handling cycle	<b>160</b>	Revision: Data handling