

# iMaths 6 Investigations and Topics

The grid below shows the 12 Investigations and the associated Topics.

Investigation	Page	Topics	
1 Rhyme to riches	20	<b>NA1</b> Prime and composite numbers <b>NA2</b> Square and triangular numbers	<b>NA3</b> Divisibility tests
2 Happy hippos	28	<b>NA4</b> Multiplication by two digits <b>NA6</b> Two-digit divisors <b>NA7</b> The four operations <b>NA15</b> Decimal addition and subtraction <b>NA16</b> Decimal multiplication	<b>MG1</b> Metric system of measurement <b>MG3</b> Area of composite rectangles <b>MG4</b> Investigating squares and rectangles <b>MG15</b> Using scale
3 Educational entrepreneur	38	<b>NA12</b> Equivalent fractions <b>NA13</b> Add and subtract fractions <b>NA14</b> Fractions as division	<b>NA20</b> Renaming percents as fractions <b>SP1</b> Probability <b>SP2</b> Judgments
4 Practice makes perfect	46	<b>SP1</b> Probability <b>SP2</b> Judgments	<b>SP3</b> Causes of bias <b>SP5</b> Line graphs
5 My personal profile	54	<b>MG1</b> Metric system of measurement <b>MG13</b> Measure angles $0^{\circ}$ – $360^{\circ}$	<b>SP4</b> Dot plots <b>SP6</b> Pie charts
6 Weird or wonderful weather	62	<b>NA11</b> Positive and negative numbers <b>SP3</b> Causes of bias <b>SP5</b> Line graphs	<b>SP8</b> Side-by-side column graphs <b>SP9</b> The graph never lies
7 Fantasy flight	70	<b>NA15</b> Decimal addition and subtraction <b>NA21</b> Discount <b>NA22</b> Operations with money <b>MG6</b> Read and interpret timetables	<b>MG7</b> Add and subtract time <b>MG9</b> International time zones <b>MG14</b> Latitude and longitude
8 Pyramids and pharaohs	80	<b>NA19</b> Multiplication of decimals <b>MG1</b> Metric system of measurement <b>MG4</b> Investigating squares and rectangles <b>MG8</b> Timelines	<b>MG10</b> Nets of prisms and pyramids <b>MG11</b> Skeletal models <b>MG13</b> Measure angles $0^{\circ}$ – $360^{\circ}$ <b>MG15</b> Using scale
9 Is petrol pricey?	88	<b>NA5</b> Division with remainders to hundredths <b>NA6</b> Two-digit divisors <b>NA7</b> The four operations <b>NA17</b> Decimal division	<b>NA18</b> Division by decimals <b>MG1</b> Metric system of measurement <b>SP3</b> Causes of bias
10 I've found a million dollars	96	<b>NA7</b> The four operations <b>NA8</b> Backtracking <b>NA9</b> The distributive law	<b>NA16</b> Decimal multiplication <b>NA24</b> Order of operations <b>MG5</b> Packing and stacking
11 Octi-origami	106	<b>MG12</b> Properties of angles <b>MG13</b> Measure angles $0^{\circ}$ – $360^{\circ}$	<b>MG16</b> Transformations
12 Clever containers	114	<b>NA4</b> Multiplication by two digits <b>NA10</b> Estimation strategies <b>NA23</b> Patterns and general rules <b>NA24</b> Order of operations	<b>MG2</b> Perimeter of composite rectangles <b>MG3</b> Area of composite rectangles <b>MG5</b> Packing and stacking <b>MG10</b> Nets of prisms and pyramids