

problem solving  
persistence  
meta-cognition  
design  
risk taking  
optimisation  
team working  
challenge

ABC School

World Class Tests Report

Mathematics 8-11 year-olds, May 2013



**World Class Arena**

challenging **minds**, recognising **talent**<sup>™</sup>

# ABC School

## Mathematics: World Class Tests 8-11 year-olds

### Analysis and Data

World Class Tests were created as an initiative of the UK Department for Education. This led to the development of computer- and paper-based assessments of students' ability to solve unfamiliar problems, using mathematical, analytical, and other higher order problem solving strategies. The tests aim to assess a depth of understanding and application beyond the usual expectation for the age group. The assessments are internationally calibrated and are designed to provide three grades: Pass, Merit and Distinction. This international calibration is used to create the following profiles:

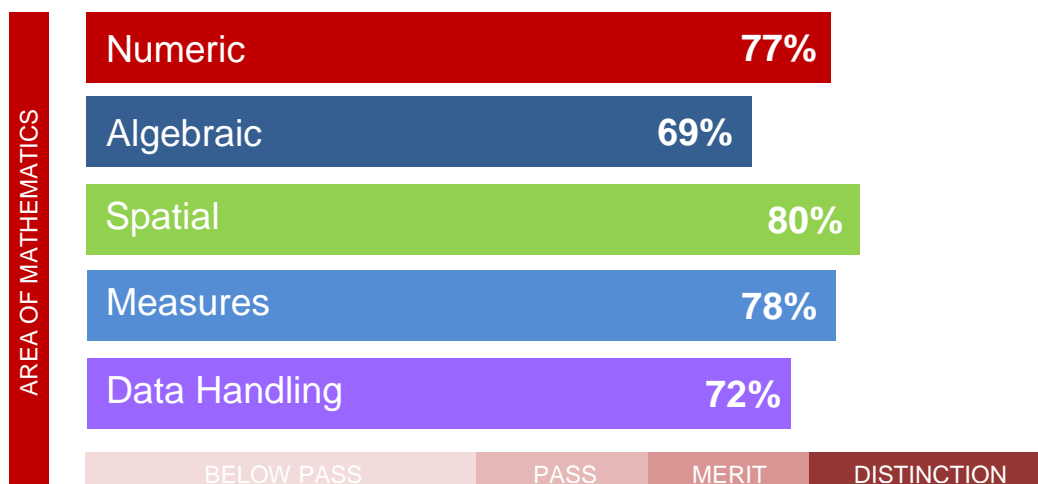
	<u>8-11 year-olds tests</u>	<u>12-14 year-olds tests</u>
<b>Distinction</b>	2-5% of 9 year-olds	2-5% of 13 year-olds
<b>Merit</b>	10% of 9 year-olds	10% of 13 year-olds
<b>Pass</b>	20% of 9 year-olds	20% of 13 year-olds

There are five major categories of skills that are tested within the **Mathematics** tests. These are:

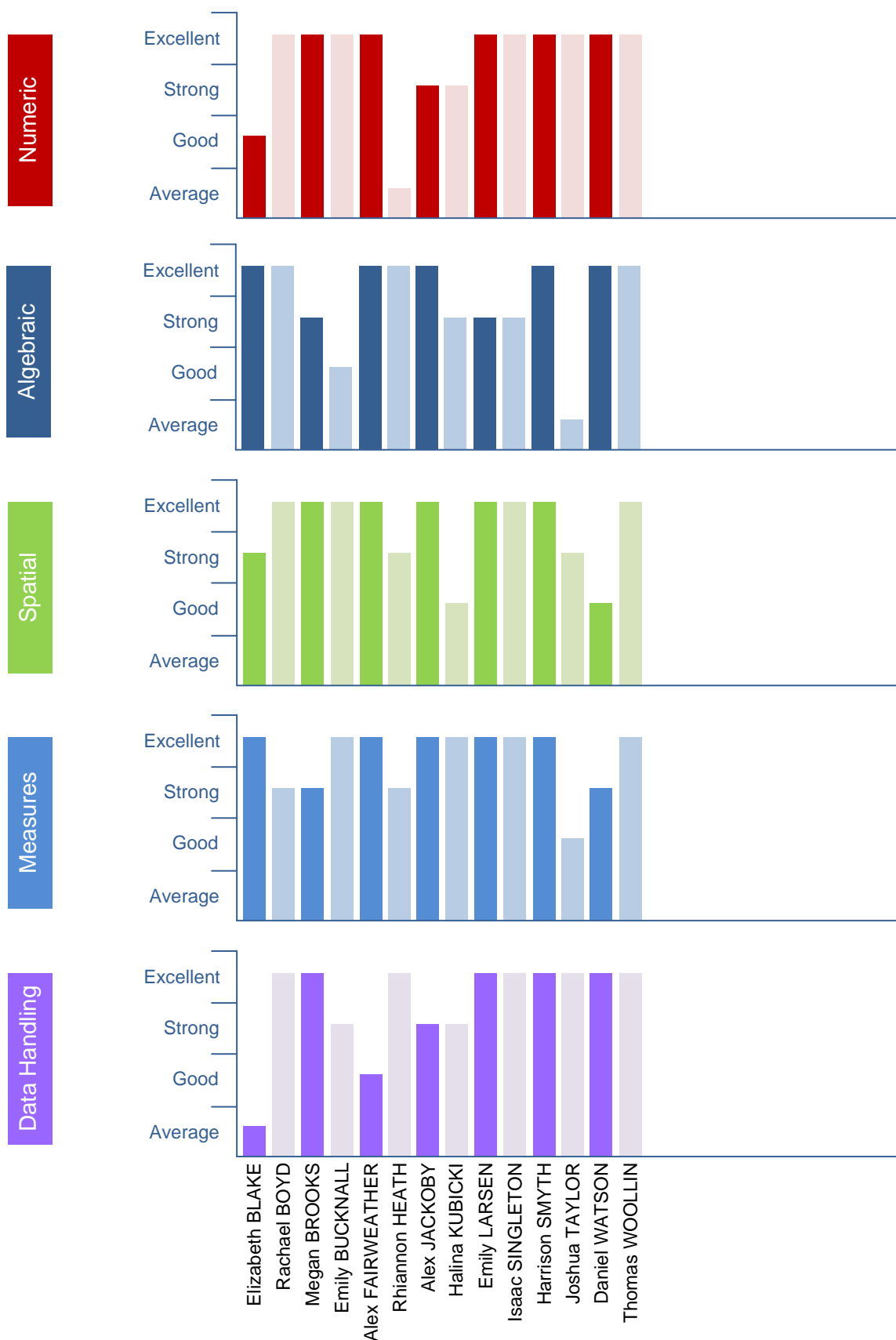
<b>Numeric</b>	<i>number sense, proportionality, context calculation</i>
<b>Algebraic</b>	<i>algebraic graphs (age 12-14 only), algebraic manipulation, patterns and sequences</i>
<b>Spatial</b>	<i>2-D spatial awareness, 3-D spatial awareness, Geometric angles, co-ordinates</i>
<b>Measures</b>	<i>physical measures &amp; scales, area, perimeter, volume</i>
<b>Handling Data</b>	<i>handling information, probability.</i>

### Summary for your school

14 students from ABC School completed the Mathematics World Class Test for 8-11 year-olds in February 2013. The average scores achieved by ABC School students in each of the main areas of mathematics are shown in this chart. These scores are plotted against the overall performance range for the award of Pass, Merit and Distinction grades. Generally, scores in excess of 75% relate to Distinction levels of performance; scores of 58-75% relate to Merit levels of performance; and scores below 58% indicate students who may be working at the Pass level of performance.



# Your students' international performance



**Notes:**

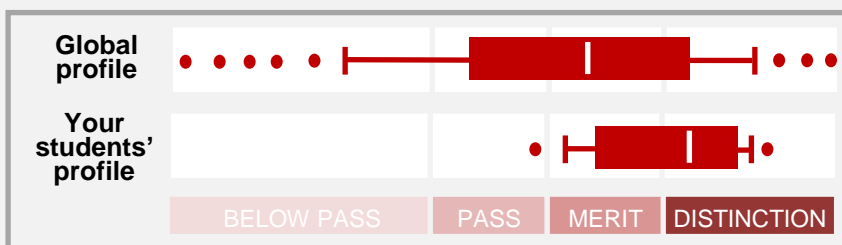
These charts present the performance of students from ABC School who completed World Class Tests in Mathematics for 8-11 year-olds in February 2013. "Excellent" performances reflect the standards of the top 5% of 9 year-olds internationally; "Strong" performances reflect the top 10%; and "Good" performances reflect the top 20% of students. These standards were derived from trials of World Class Tests in Australia, Hong Kong, Singapore, UK and the USA. "Average" is any standard below "Good".

# Students' scores

	Area of Maths (& marks available)					TOTAL SCORE	Grade	Percentage
	Numeric (15)	Algebraic (9)	Spatial (8)	Measures (3)	Data Handling (5)			
Harrison SIMS	10	5	8	6	7	36	Distinction	90%
Thomas WEST	8	5	7	7	8	35	Distinction	88%
Rachael BRIDGES	8	7	8	4	7	34	Distinction	85%
Isaac SAMUEL	9	4	8	7	6	34	Distinction	85%
Megan BISHOP	10	4	7	4	8	33	Distinction	83%
Alex JAMES	7	6	8	7	5	33	Distinction	83%
Emily LEEDS	8	4	8	7	6	33	Distinction	83%
Emily BARRY	9	3	6	7	5	30	Distinction	75%
Alex FISHERMAN	8	6	7	6	3	30	Distinction	75%
Daniel WELLINGTON	8	7	3	4	6	28	Merit	70%
Joshua TIMMS	9	2	5	3	7	26	Merit	65%
Rhiannon HOWARD	3	6	5	4	6	24	Merit	60%
Halina KASTIL	6	4	4	5	5	24	Merit	60%
Elizabeth BRIDGES	5	5	5	5	2	22	Below Pass	55%

■ Below Pass   
 ■ Pass   
 ■ Merit   
 ■ Distinction

## Your students compared internationally



The above chart provides a comparison between ABC School students and all students worldwide completing the Mathematics World Class Tests for 8-11 year-olds in the previous 12 months.

The chart provides ready comparisons, showing median performances, highest and lowest performances, and the overall spread of student scores.

It should be noted that the fewer students from a school completing the tests, the less meaningful the comparison. For schools with fewer than 7 students completing the tests, the performance of each student is represented as a dot on the 'Your Students' level of the chart. It should also be noted that students of any age between 8-11 can complete these tests; all participating students in this age range are included in the analysis.

### How to read the chart

- OUTLIERS, the top 10% of students** →
- MAXIMUM, the highest score, excluding the top 10%** →
- UPPER QUARTILE, 25% of students scored above this value** →
- MEDIAN, 50% of students are on either side of this line** →
- LOWER QUARTILE, 25% of students scored below this value** →
- MINIMUM, the lowest score, excluding the lowest 10%** →
- OUTLIERS, the lowest 10% of students** →