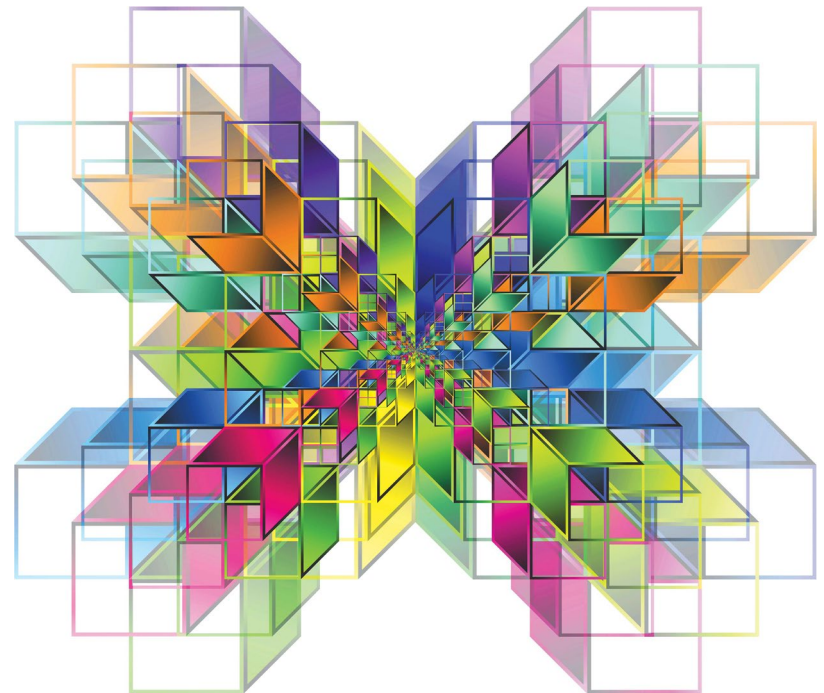


# GCSE Maths: Virtual communities 2020

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Autumn 2020



# Welcome

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# Discussion

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Overarching topic coverage and performance

# Topic area coverage

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The weighting of the topic areas has been prescribed by Ofqual and is common to all exam boards. The table below shows the approximate weightings of the topic areas for the overall tier of assessment, **not** for each individual question paper.

Topic area	Foundation Tier (%)	Higher Tier (%)
Number	25	15
Algebra	20	30
Ratio	25	20
Geometry and measures	15	20
Probability and statistics	15	15

# Performance by topic area: Foundation Tier

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Mean Foundation Tier cohort performance (facility) by topic area for June 2017, 2018 and 2019 combined shown with the coverage for comparison

Topic area	Foundation Tier coverage (%)	Foundation Tier performance (%)
Number	25	51.01
Algebra	20	33.77
Ratio	25	43.68
Geometry and measures	15	37.16
Probability and statistics	15	45.18

# Performance by topic area: Higher Tier

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Mean Higher Tier cohort performance (facility) by topic area for June 2017, 2018 and 2019 combined

Topic area	Higher Tier coverage (%)	Higher Tier performance (%)
Number	15	52.69
Algebra	30	41.64
Ratio	20	55.25
Geometry and measures	20	45.63
Probability and statistics	15	57.90

# Discussion

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Topic performance by grade

# Difference in performance at selected grades by topic area: Foundation Tier

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Difference in mean cohort performance by topic area for June 2017, 2018 and 2019 combined at selected grades

Topic area	Grades 4–3 (%)	Grades 5–4 (%)
Number	12.67	11.90
Algebra	13.45	16.05
Ratio	13.25	14.49
Geometry and measures	15.18	15.95
Probability and statistics	11.94	11.57



# Difference in performance at selected grades and selected topics: Foundation Tier

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Difference in mean cohort performance at selected topics for June 2017, 2018 and 2019 combined at selected grades

Topic	Grades 4–3 (%)	Grades 5–4 (%)
<b>Number</b>	<b>12.67</b>	<b>11.90</b>
N9 Standard form	15.83	21.40
N10 Decimals to fractions and vice versa	17.27	15.31
N15 Rounding, error notation	13.12	21.38

# Difference in performance at selected grades and selected topics: Foundation Tier

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Difference in mean cohort performance at selected topics for June 2017, 2018 and 2019 combined at selected grades

Topic	Grades 4–3 (%)	Grades 5–4 (%)
<b>Geometry and measures</b>	<b>15.18</b>	<b>15.95</b>
G3 Angles at a point or in a triangle	19.76	16.87
G7 Congruent and similar shapes	15.44	18.71
G17 Perimeter and volume	20.28	23.48

# Difference in performance at selected grades by topic area: Higher Tier

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Difference in mean cohort performance by topic area for June 2017, 2018 and 2019 combined at selected grades

Topic area	Grades 5–4	Grades 7–6	Grades 9–8
Number	11.46	11.64	12.58
Algebra	8.95	13.91	17.56
Ratio	12.86	11.03	10.91
Geometry and measures	11.35	14.80	13.79
Probability and statistics	12.06	11.49	9.61

# Difference in performance at selected grades and selected topics: Higher Tier

Difference in mean cohort performance by topic area for June 2017, 2018 and 2019 combined at selected grades

Topic	Grades 5–4	Grades 7–6	Grades 9–8
<b>Number</b>	<b>11.46</b>	<b>11.64</b>	<b>12.58</b>
N9 Standard form	15.82	8.07	4.80
<b>Ratio</b>	<b>12.86</b>	<b>11.03</b>	<b>10.91</b>
R13 Direct and inverse proportion	12.55	17.60	10.65

# Difference in performance at selected grades and selected topics: Higher Tier

Difference in mean cohort performance by topic area for June 2017, 2018 and 2019 combined at selected grades

Topic	Grades 5–4	Grades 7–6	Grades 9–8
<b>Algebra</b>	<b>8.95</b>	<b>13.91</b>	<b>17.56</b>
A16 Equation of a circle	3.64	15.49	27.25
A19 Simultaneous equations	10.07	14.84	20.07
<b>Geometry and measures</b>	<b>11.35</b>	<b>14.80</b>	<b>13.79</b>
G10 Circle theorems	6.52	10.36	21.84

# Get in touch

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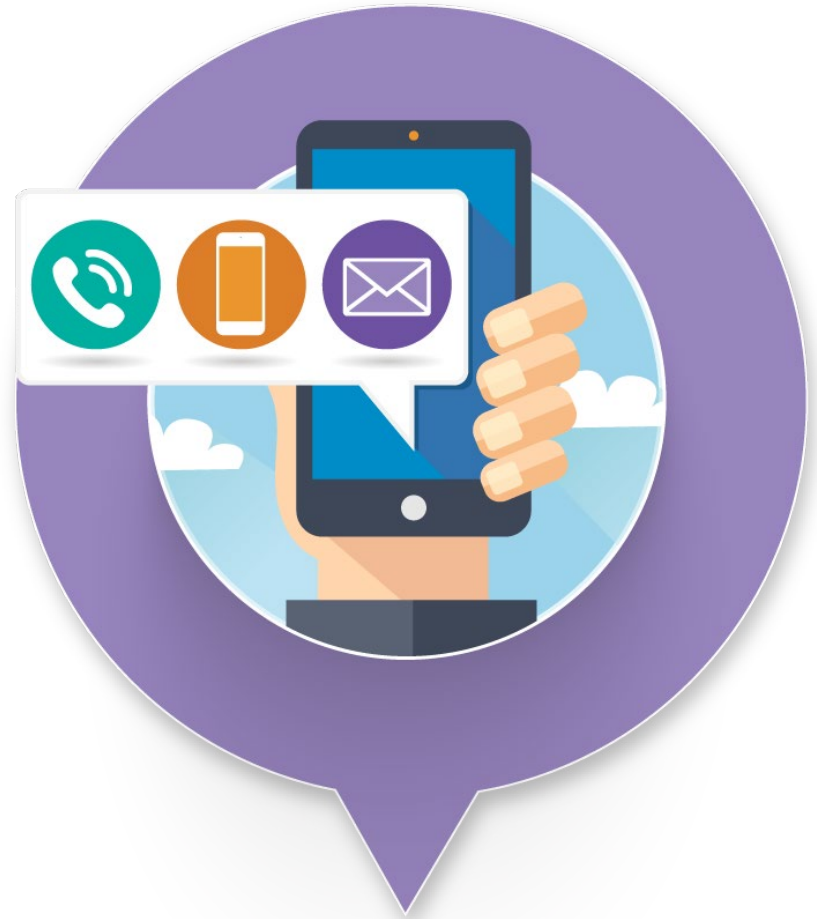
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Thank you

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