The impact of small group online tutoring in 2022.

An analysis based on over 93,000 hours of online tutoring and 4,400 assessments delivered by Pearson via Bramble between September 2021–2022.

P Pearson · bramble

https://www.pearson.com/uk/educators/schools/pearson-tutoring-programme.html
https://about.bramble.io/

The impact of small group online tutoring – introduction

The data in this report is from small group online tutoring sessions delivered by Pearson via Bramble between September 2021–2022. Students typically received 15 one hour sessions of live online tutoring in a specific subject: English, maths or science. Sessions were usually delivered in small groups of three students to one tutor. Data comes from four sources.

1) Pearson assessment data

Students are set topic based assessments pre and post their tutoring programme. We can calculate relative progress as increase = (post-pre) / (pre)
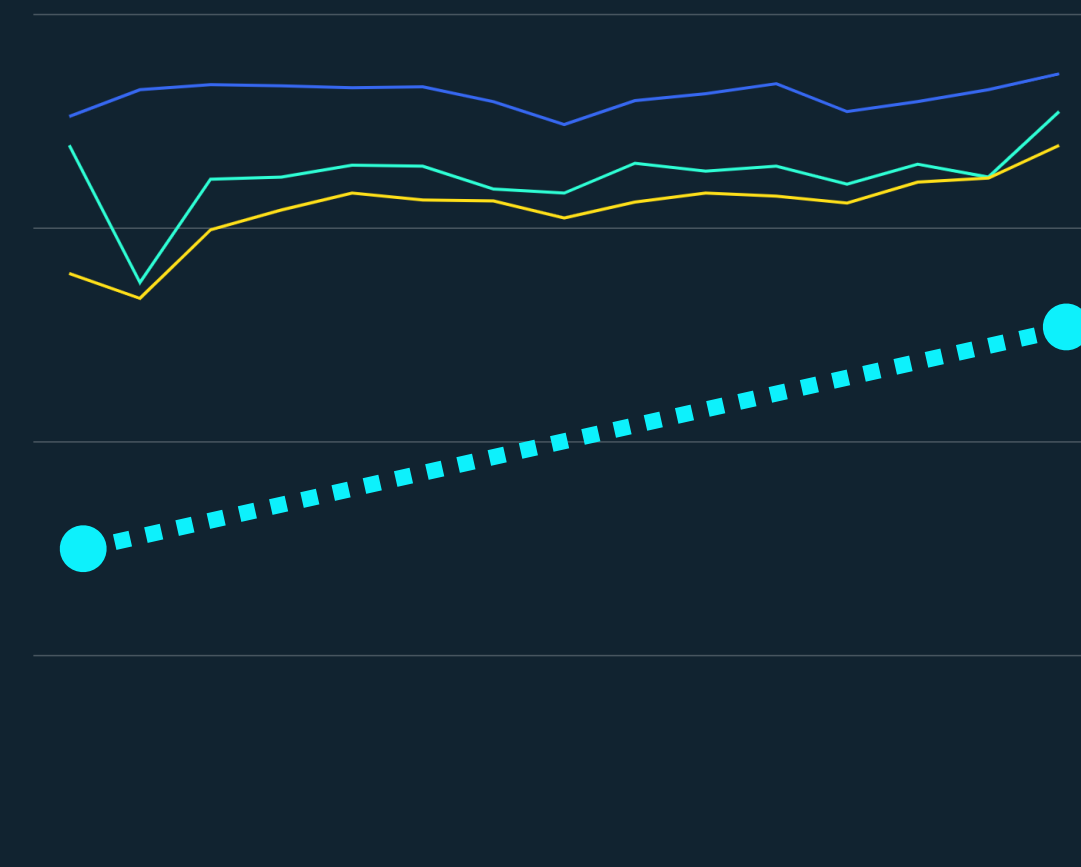
2) Bramble AI subtopic detection

Bramble's Smart Subtopic detection technology uses AI trained on 2 million hours of live online tutoring to auto-detect the subject, topic and subtopic being taught in a session.
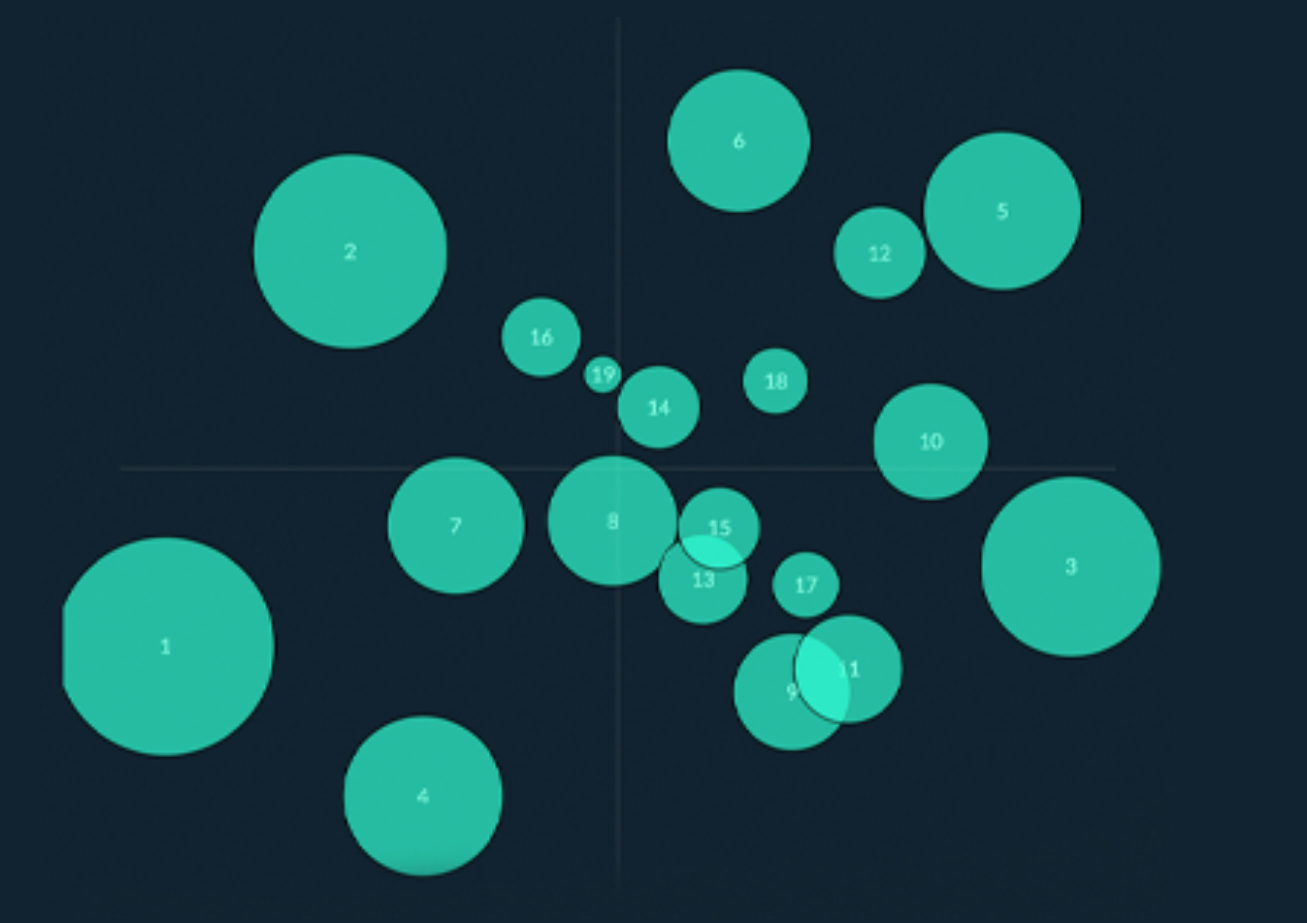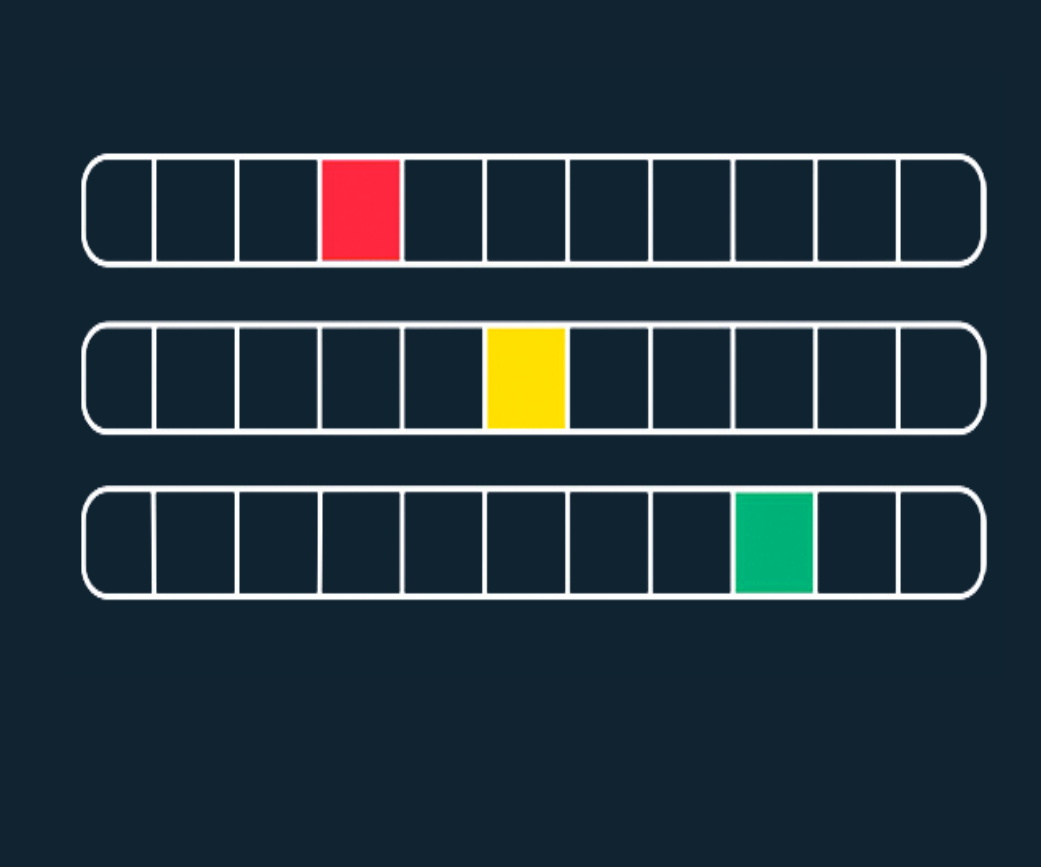
3) Bramble engagement data

Every session on Bramble generates thousands of engagement data points: from words spoken and annotations drawn to resources shared.
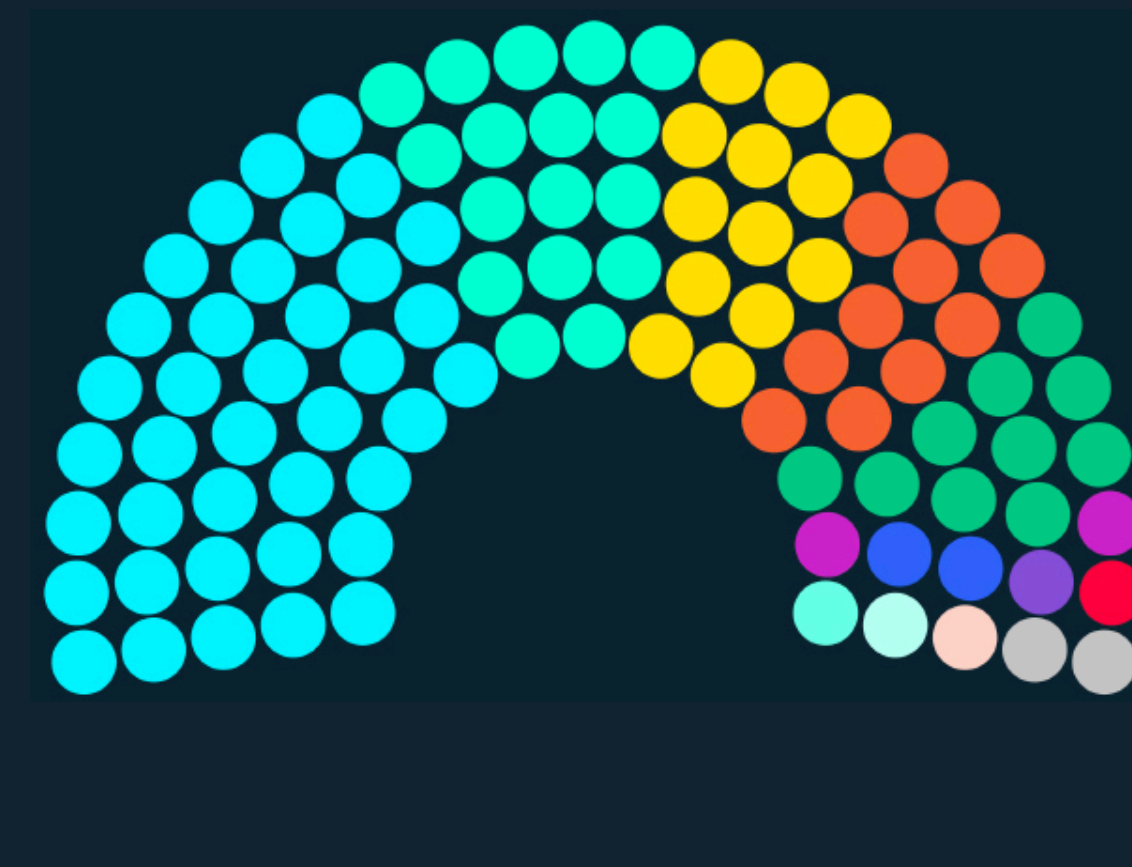
4) Bramble CUE ratings

Tutors rate student confidence, understanding and engagement after each session to provide further insight on progress made.

The impact of small group online tutoring – highlights

An analysis based on over 93,000 hours of online tutoring and 4,400 assessments delivered by Pearson via Bramble between September 2021–2022. Highlights include the progress made in maths, high student engagement and positive attitudes from students and teachers.

76%
Relative increase in assessment scores before and after maths tutoring across KS2 and KS4.

86%
Average student engagement in sessions as evaluated by tutors after the session via CUE Ratings.

87%
Of students find online tutoring to be more effective or as effective as the in person alternative.

The impact of small group online tutoring – progress

An analysis based on over 93,000 hours of online tutoring and 4,400 assessments delivered by Pearson via Bramble between September 2021–2022. Relative increase in assessment scores shown for all assessed students, by main key stages and main subjects.

ALL — PRE TUTORING ASSESSMENT 40 — 65 POST TUTORING ASSESSMENT — **63% increase**

KS2 — 38 — 64 — **68% increase**

KS4 — 43 — 65 — **51% increase**

MATHS — 33 — 58 — **76% increase**

ENGLISH — 51 — 74 — **45% increase**

ALL = 2210 students assessed. KS2 = 1286. KS4 = 656. Maths = 1146. English = 910

Learn more at https://about.bramble.io/
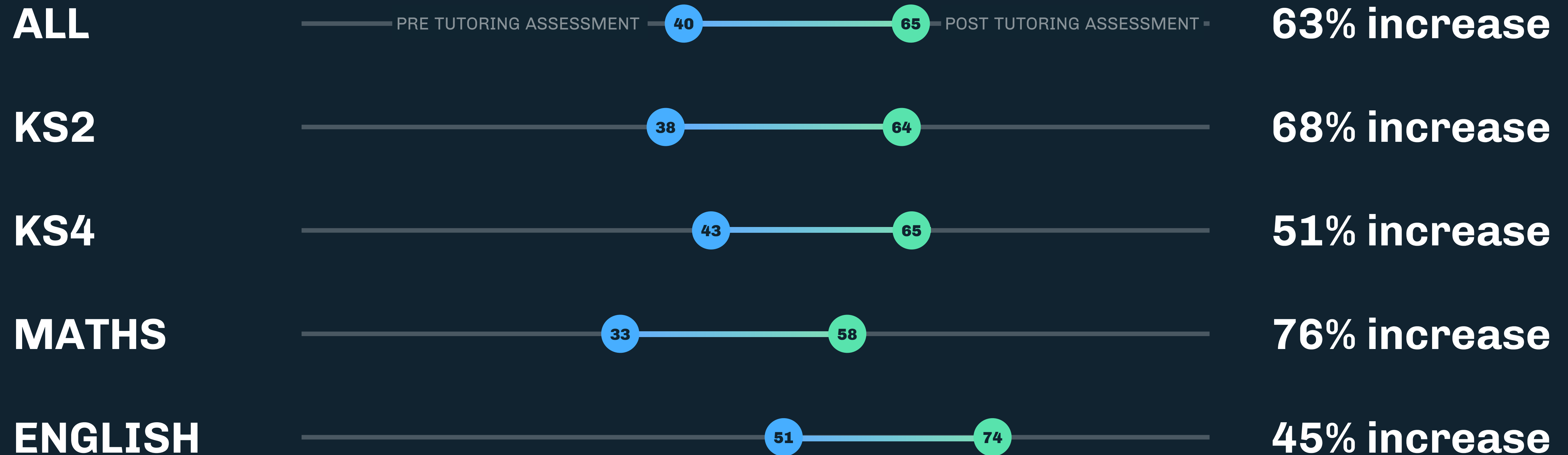
The impact of small group online tutoring – interaction

An analysis based on over 93,000 hours of online tutoring delivered by Pearson via Bramble between September 2021–2022. Showing average confidence, understanding and engagement, interactions in live lessons and use of searchable lesson recordings.

79,500 CUE Ratings

73% AVERAGE CONFIDENCE

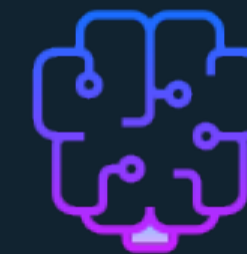**77% AVERAGE UNDERSTANDING**

86% AVERAGE ENGAGEMENT

180,000,000
Words spoken in sessions

641,000
Resources shared

21,500,000
Strokes drawn

127,000
Searches for revision

The impact of small group online tutoring – pupil premium

Students receiving pupil premium funding made significant progress across key stages and subjects.
Relative increase in assessment scores shown for students receiving pupil premium, by main key stages and main subjects.

ALL (PP)   PRE TUTORING ASSESSMENT 40 — 65 POST TUTORING ASSESSMENT   **63% increase**

KS2 (PP)   37 — 64   **73% increase**

KS4 (PP)   41 — 65   **59% increase**

MATHS (PP)   33 — 58   **76% increase**

ENGLISH (PP)   48 — 73   **52% increase**

ALL = 2210 students assessed. KS2 = 1286. KS4 = 656. Maths = 1146. English = 910

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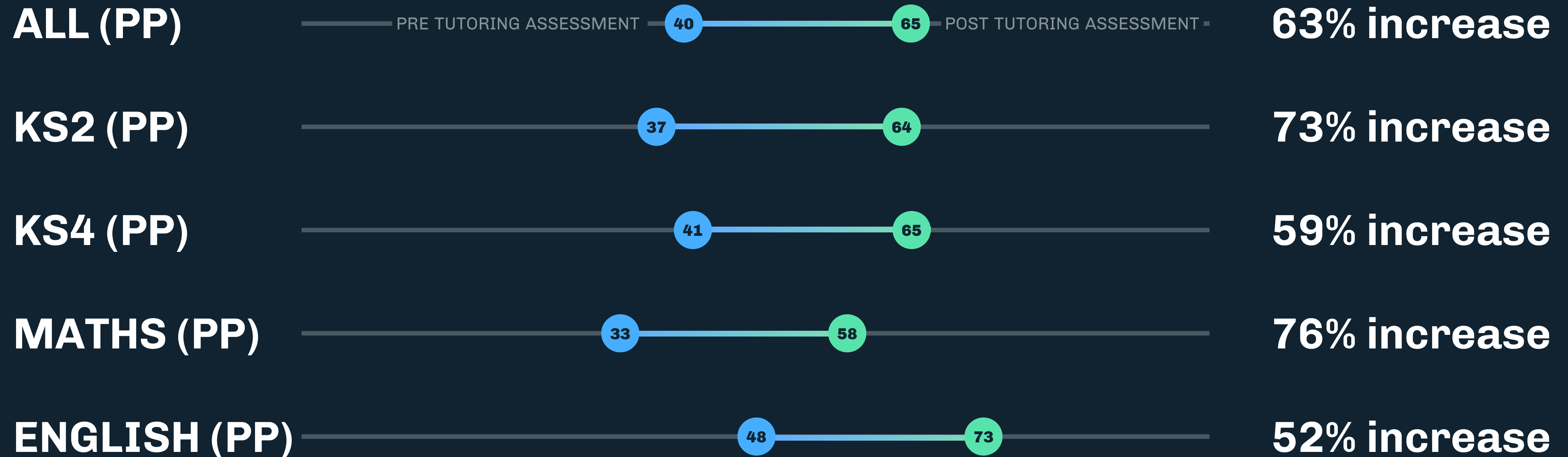
The impact of small group online tutoring – maths
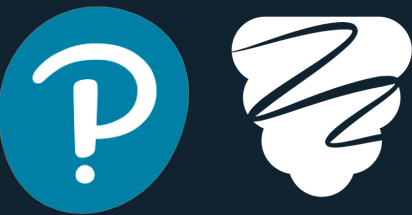
The greatest progress was made in maths, particularly with younger students. KS2 students increased their assessment scores by 81% before and after tutoring. 54% of maths sessions focussed on number, 16% focussed on algebra.

76%

Increase in assessment scores before and after maths tutoring across all key stages.

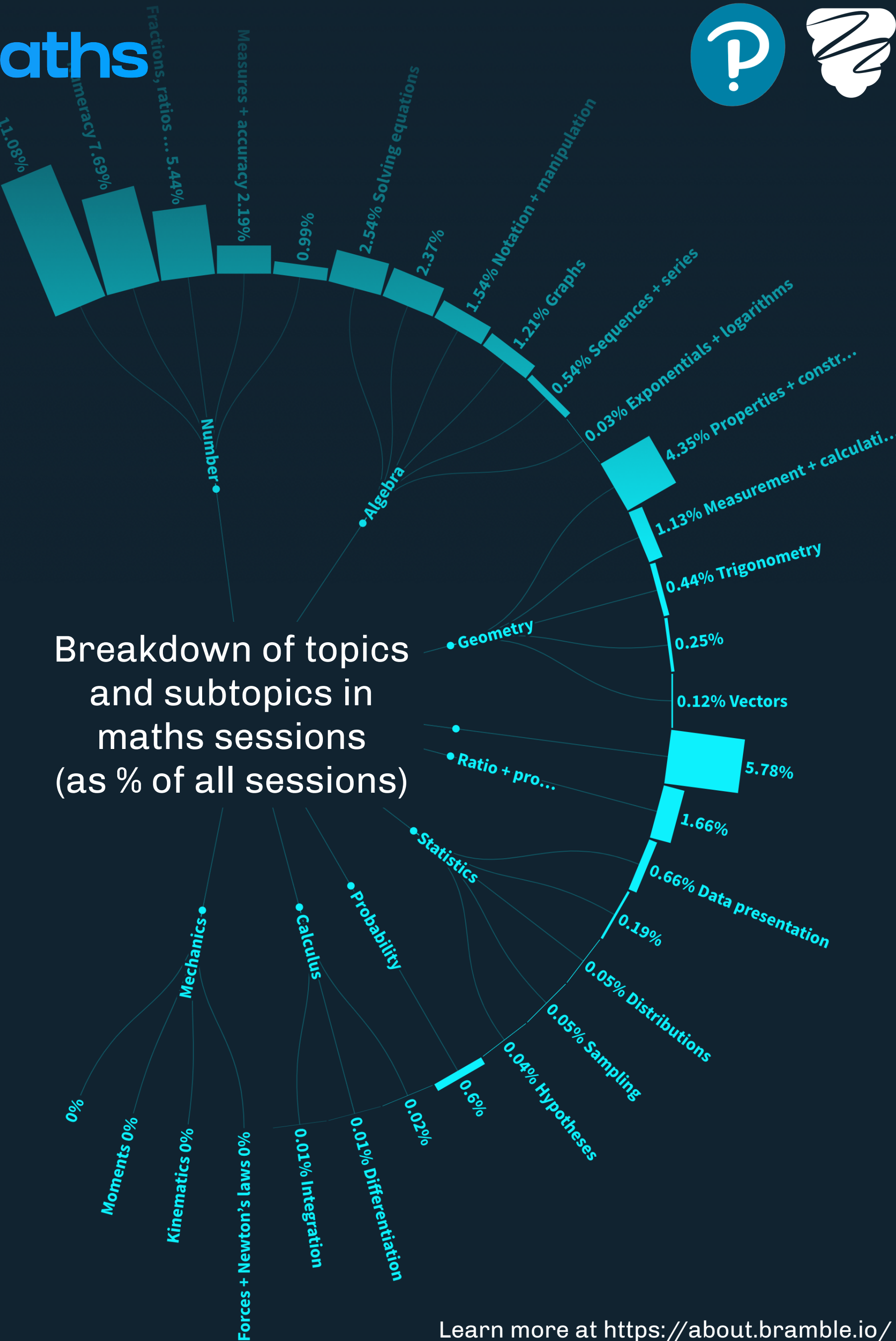|	
MATHS KS2 (PP N)	81%
MATHS KS2 (PP Y)	81%
MATHS KS4 (PP N)	67%
MATHS KS4 (PP Y)	72%

Breakdown of topics and subtopics in maths sessions (as % of all sessions)

Number
Algebra
Geometry
Ratio + pro...
Statistics
Probability
Calculus
Mechanics

...11.08%
...meracy 7.69%
Fractions, ratios... 5.44%
Measures + accuracy 2.19%
...9.99%
2.54% Solving equations
2.37%
1.54% Notation + manipulation
1.21% Graphs
0.54% Sequences + series
0.03% Exponentials + logarithms
4.35% Properties + constr...
1.13% Measurement + calculati...
0.44% Trigonometry
0.25%
0.12% Vectors
5.78%
1.66%
0.66% Data presentation
0.19%
0.05% Distributions
0.05% Sampling
0.04% Hypotheses
0.6%
0.02%
0.01% Differentiation
0.01% Integration
Forces + Newton's laws 0%
Kinematics 0%
Moments 0%
0%

The impact of small group online tutoring – maths topics

Bramble's AI powered Smart Subtopic detection provides unprecedented insight into what topics and subtopics students are covering.

Maths	
Number	**54.9%**
Structure + calculation	22.2%
Fractions, ratios + percentages	15.4%
Numeracy	10.9%
Measures + accuracy	4.4%
Number	2.0%
Algebra	**16.5%**
Solving equations	5.1%
Algebra	4.7%
Notation + manipulation	3.1%
Graphs	2.4%
Sequences + series	1.1%
Exponentials + logarithms	0.1%
Geometry	**12.6%**
Properties + constructions	8.7%
Measurement + calculation	2.3%
Trigonometry	0.9%
Vectors	0.2%
Geometry	0.5%
Ratio + proportion	**3.3%**
Statistics	**2.0%**
Probability	**1.2%**
Calculus	**0.1%**
Maths	**11.6%**

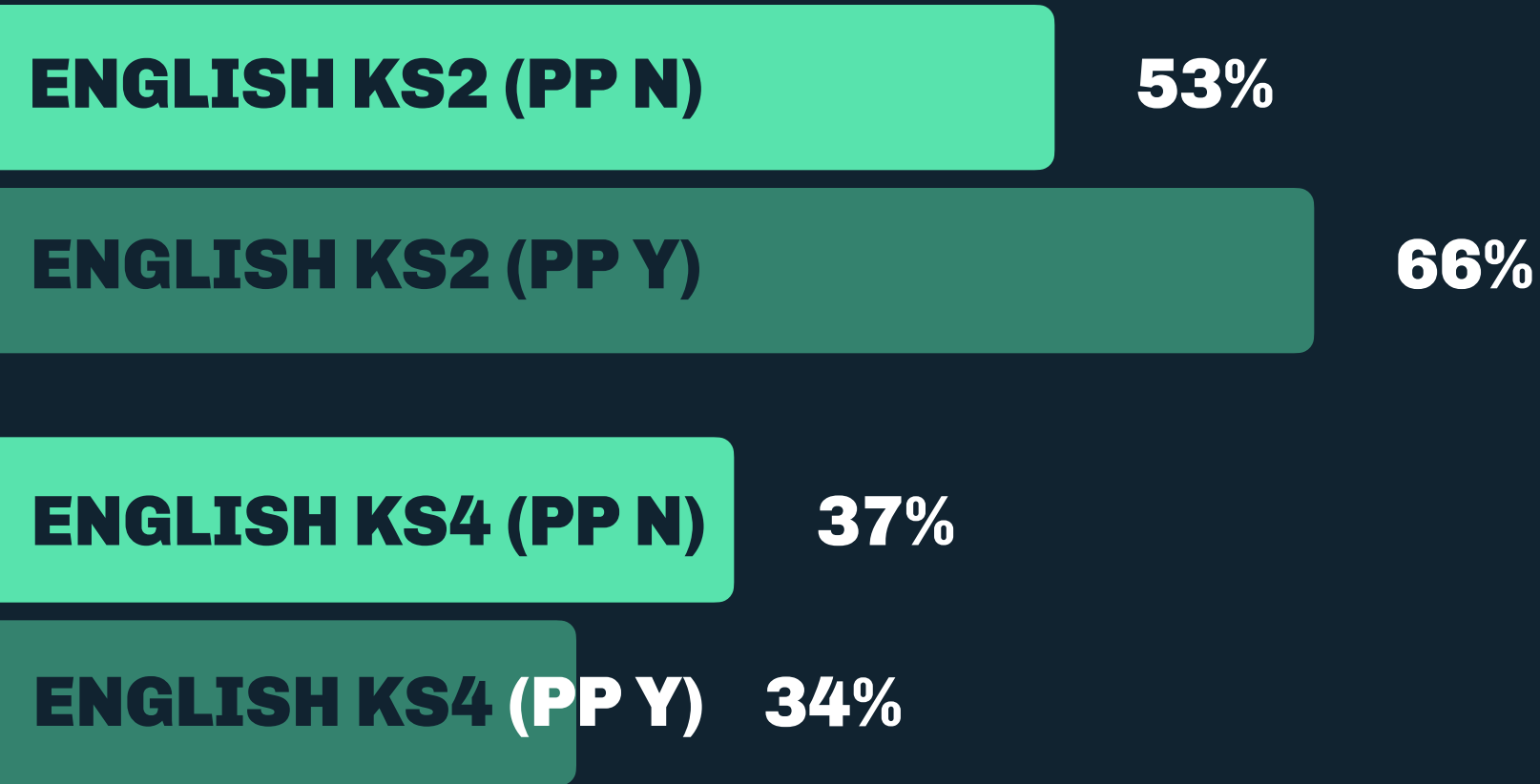Breakdown of topics and subtopics in maths sessions
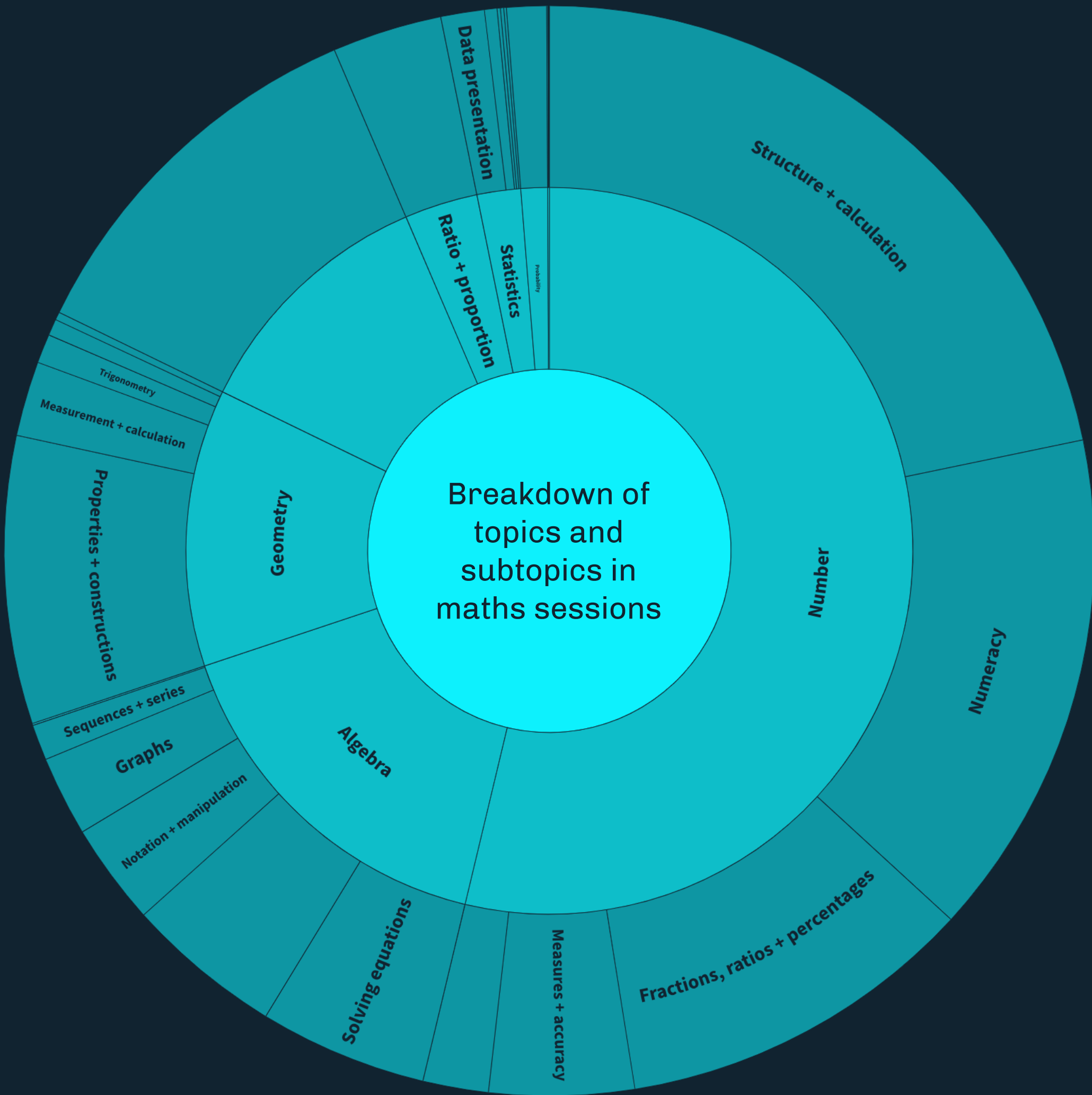
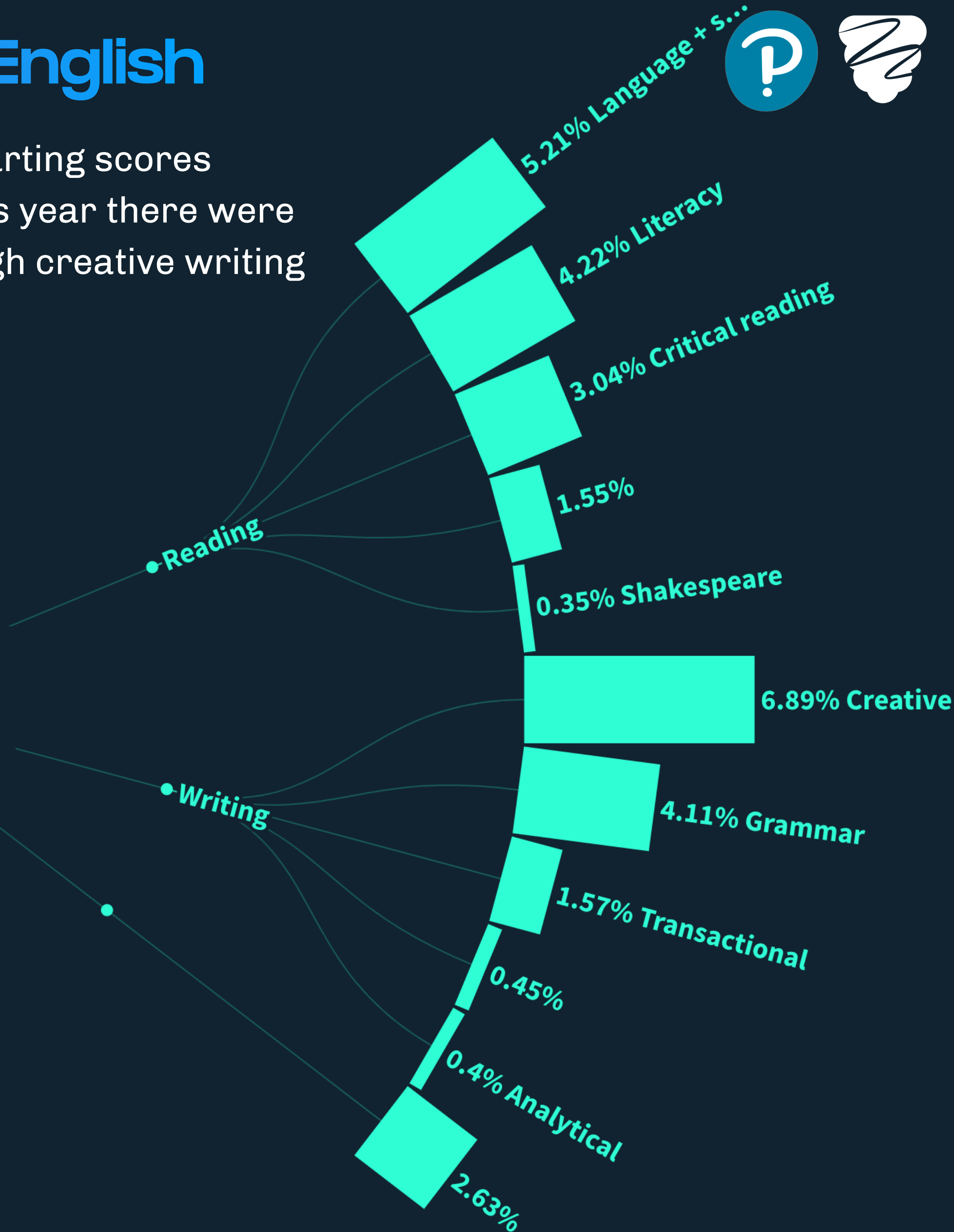# The impact of small group online tutoring – English

There was smaller relative progress in English, which was partly driven by higher starting scores compared to maths. Once again, we see greater progress with younger students. This year there were slightly more English sessions focussed on reading (47%) than writing (44%) – although creative writing remained the most popular subtopic (23% of English sessions, ~7% of all sessions).

47%

Increase in assessment scores before and after English tutoring across all key stages and regions.

ENGLISH KS2 (PP N) — 53%
ENGLISH KS2 (PP Y) — 66%
ENGLISH KS4 (PP N) — 37%
ENGLISH KS4 (PP Y) — 34%

Breakdown of topics and subtopics in English sessions (as % of all sessions)

- Reading
- Writing

5.21% Language + s...
4.22% Literacy
3.04% Critical reading
1.55%
0.35% Shakespeare
6.89% Creative
4.11% Grammar
1.57% Transactional
0.45%
0.4% Analytical
2.63%

The impact of small group online tutoring – English topics

Bramble's AI powered Smart Subtopic detection provides unprecedented insight into what topics and subtopics students are covering.

English	
Writing	**44.7%**
Creative	23.0%
Grammar	13.7%
Transactional	5.2%
Analytical	1.3%
Writing	1.5%
Reading	**48.0%**
Language + structure	17.4%
Critical reading	10.1%
Literacy	14.1%
Reading	5.2%
Shakespeare	1.2%
English	**8.8%**

Breakdown of topics and subtopics in English sessions

The impact of small group online tutoring – attitudes

We surveyed over 2,200 teachers, tutors, students and parents to understand their experiences of online tutoring, its impact and benefits.
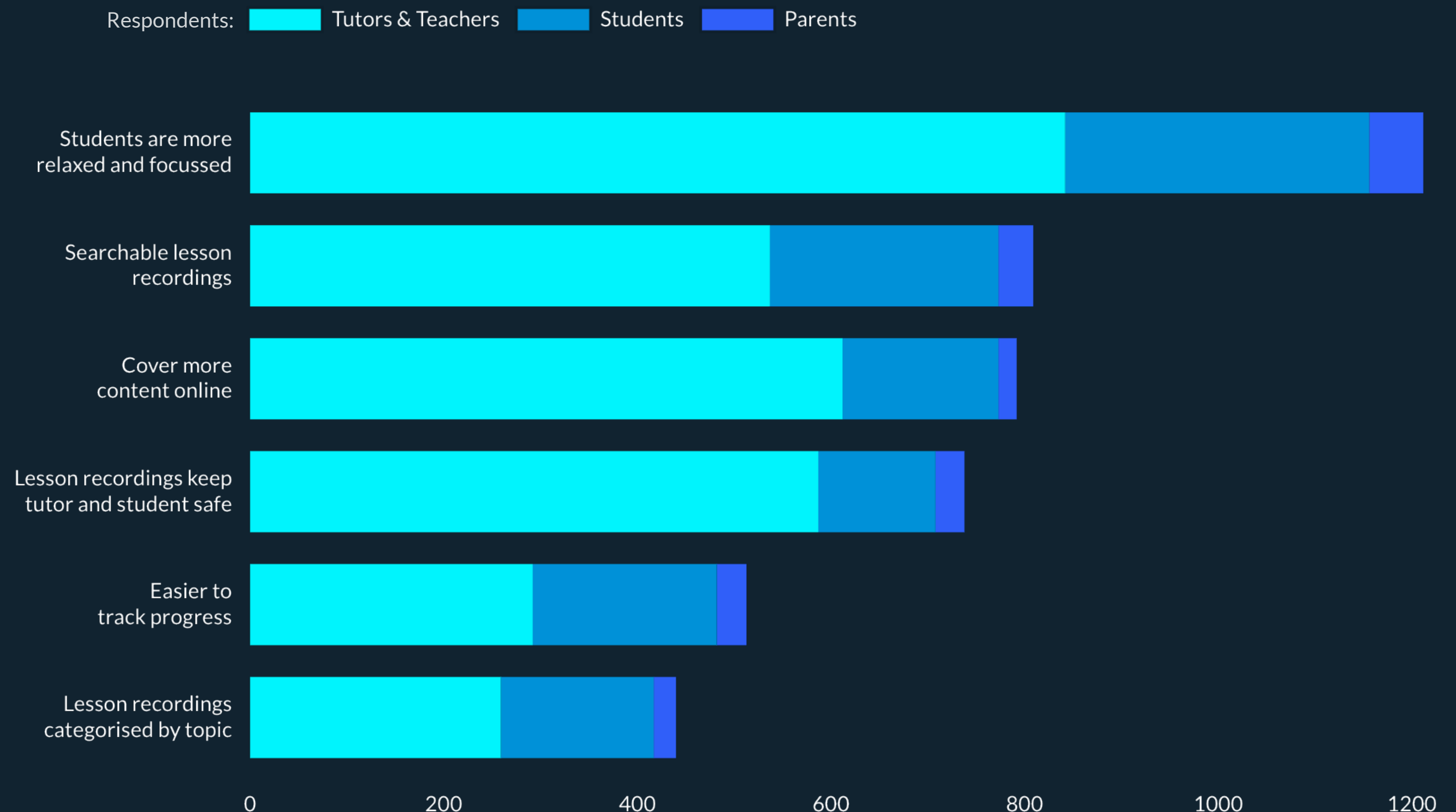
87%

of students find online tutoring to be more effective or as effective as the in person alternative.

81%

of teachers have seen a positive impact from external tuition. 16% say it is too soon to say. Only 3% report seeing no impact.

We asked: What are the main benefits of online tutoring for students?

Respondents: **Tutors & Teachers**   **Students**   **Parents**

Students are more relaxed and focussed

Searchable lesson recordings

Cover more content online

Lesson recordings keep tutor and student safe

Easier to track progress

Lesson recordings categorised by topic

0   200   400   600   800   1000   1200

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