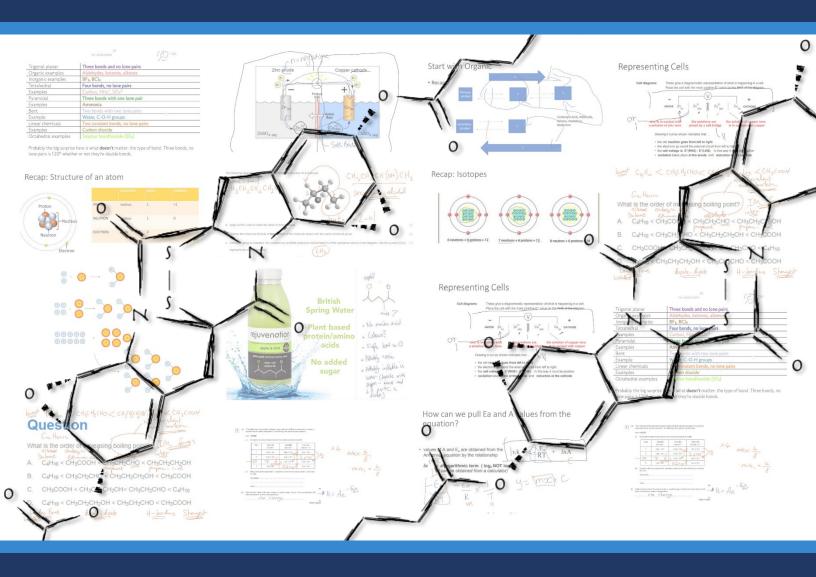


Online Volunteer Tutoring

KS5 Chemistry in Westminster





EVINCE ASSET MANAGEMENT



"My tutor has brought back my interest in Chemistry and has in fact made me like it more than I thought I would. She has increased my confidence, and both taught and helped me with many aspects of Chemistry, Biology and other matters related to university."

Year 13 Student

"Students' education and understanding of the subject improved as a direct result of the tutoring provided by Tutorfair. The students who took part would never have received such an opportunity if Tutorfair did not offer it."

Westminster Academy

"The help and support that Tutorfair has provided to our students has been immense and the students and I are grateful for this opportunity."

Westminster City School

2020 - 2021



Contents

Intro	duction	3
-	Executive Summary	3
-	Wider Impact	3
Schools		4
-	Overview of Participating Schools	4
	- Westminster Academy	4
	- Westminster City School	4
	- Pimlico Academy	4
-	Existing Relationships	4
Stud	ents	5
-	Overview of Participating Students	5
-	Higher Education and Careers	5
-	Attitudes to Learning	6
-	Previous Access to Tutoring	6
Volunteers		7
-	Overview of Participating Tutors	7
-	Volunteering Hours	7
Deliv	very and Outcomes	8
-	Objectives and Outcomes	8
-	Breakdown of Delivery by School Partner	8
Impa	nct	9
-	Student Likert Scale Survey	9
-	Confidence and Enjoyment Versus Baseline	9
-	Tutor Likert Scale Survey	10
-	Student Voices	10
Impa	ict	11
-	Overall Experience	11
-	Insights	11
-	School Testimonials	12
-	Student Testimonials	13

Executive Summary

Tutorfair Foundation is an education charity on a mission to make tutoring fair by widening access for young people from less advantaged backgrounds. Since 2012, we have worked to connect a growing community of volunteer tutors with students in London and across the UK who need their support.

This project, conceived in the summer of 2020, was undertaken to support young people through academic year 2020-21 against the changing background of the COVID-19 pandemic. Existing methods of delivery (including school visits and events) were no longer feasible, and a fully online delivery model was needed to provide longer-term engagement through a period of unprecedented difficulty in education.

Since November 19th 2020, 15 tutors have delivered 331 hours of KS5 Chemistry tutoring to 29 students attending 3 schools in The City of Westminster – Pimlico Academy, Westminster City School and Westminster Academy. This was made possible by Evince Asset Management, who were eager to support young people in their local area and generously funded our work from August 2020. Later, the programme attracted further support from Westminster Foundation and The Royal Society of Chemistry.

The opportunity to access tutoring was welcomed by students from all three schools and the programme's initial 30 placements were at one stage oversubscribed. However, school closures in January 2021 and the subsequent cancellation of 2021's A-Level and IB examinations cooled interest from many students, with exam technique and preparation being a substantial area of concern amongst young people studying at that level.

This extended the timeline of the programme (which was initially planned to finish in March) by approximately 6 weeks and led to the inclusion of a small number of Year 12 students alongside their Year 13 peers. The project was formally concluded on 30th April, although a small number of weekly sessions will through May and into June.

The tutoring has been extremely well received by students, schools and tutors alike, with students reporting a high level of enjoyment of and benefit from the lessons. All participating schools have indicated that they would like to be involved again if the project is repeated in the academic year 2021-22.

Joss Serraillier Foundation Director

Wider Impact

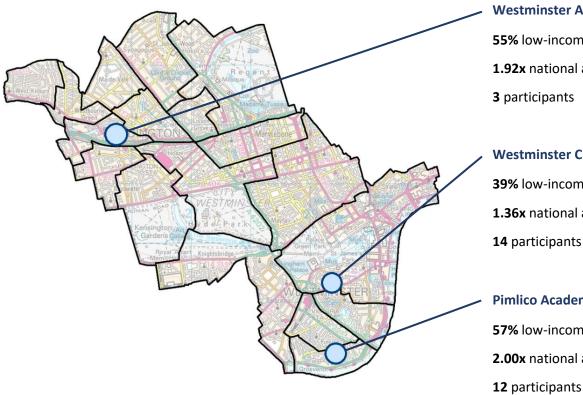
The impact of this programme has already extended beyond the schools and students that took part. Tutorfair Foundation is now a member of Westminster's Young People's Foundation and is currently exploring opportunities to support their network of Youth Hubs and other community-facing organisations.

Connections with participating schools have also led to designs for a new project based in the borough which aims to empower young voices and engage young volunteers who are driven to support their local area.



Schools

Overview of Participating Schools



Westminster Academy W2 5EZ
55% low-income students
1.92x national average
3 participants

Westminster City School SW1E 5HJ
39% low-income students
1.36x national average
14 participants
Pimlico Academy SW1V 3AT
57% low-income students
2.00x national average

Existing Relationships

Students from Westminster Academy and Westminster City School have been attending our annual *Chemistry Day* at UCL since 2015. This programme was due to take place again in early 2020 but was cancelled due to COVID-19 restrictions.

In previous years, Pimlico Academy has been a partner of our *Schools Programme* which involves volunteers regularly visiting their site to provide free tuition to Pupil Premium students.

Westminster Academy and Westminster City schools were involved in the early stages of this project, with Pimlico Academy joining after funding was confirmed.





Students

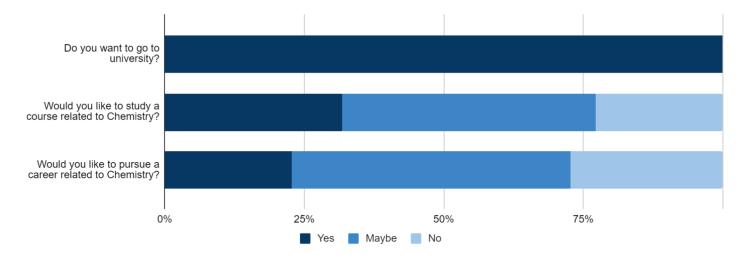
Overview of Participating Students

29 students took part in the programme, receiving weekly one-to-one tutoring between November 2020 and April 2021. All students currently attend one of the three participating schools and were selected either because:

- they were eligible for the Pupil Premium Grant at the age of 16; or
- their academic progress was disproportionately affected by COVID-19 school closures

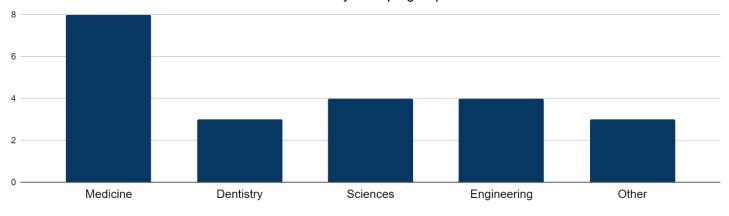
Students completed an introductory questionnaire including questions about their attitudes to learning, their access to tutoring and their ambitions for Higher Education and careers.





Higher Education and Careers

What career are you hoping to pursue?





Students

Attitudes to Learning

Students were asked to rate their confidence about learning Chemistry out of 5 and then to compare this score to their 'baseline' confidence in other subjects. They were also asked to rate their enjoyment of Chemistry and to rank it against their other subjects in terms of preference.

Consistently, participants reported that they were marginally less confident about learning Chemistry than they were about learning their other subjects.

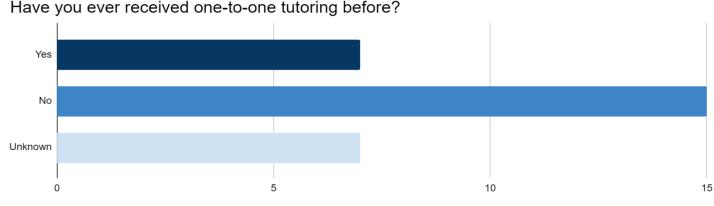
Notably, most students rated their enjoyment of the subject higher than or equal to their confidence in it, with an average 'enjoyment' score of 3.5 out of 5. Most students (85%) ranked Chemistry as 'somewhere in between' their favourite and least favourite subjects.

Chemistry can be confusing and difficult when you don't understand the concepts. Then you can't understand the questions and then the calculations associated with them.

Student

Previous Access to Tutoring

Only 7 of the 29 participating students told us that they had received some form of one-to-one tuition in the past. This is comparable to the national average (approximately 25%) but significantly lower than the average for young people in London (approximately 40%). 5 of the students who answered 'no' did say that they had received help from a friend or family member. 7 participants did not provide an answer to this question.



6

Average Confidence in Chemistry

3.13 / 5

Average Confidence in Other Subjects

3.94 / 5

Average Enjoyment of Chemistry

3.50 / 5

Exams and tests are the worst part of Chemistry because they don't show our full understanding. Tests make us come across as dumb when we just need a bit more help with exam questions.

Student

Volunteers



Overview of Participating Tutors

15 tutors took part in the programme, all of whom had significant tutoring experience before starting with us. Several of the tutors were full-time tutors and/or teachers and all had studied Chemistry or a related subject to at least undergraduate level.

12 of the 15 tutors had not volunteered with Tutorfair Foundation before and all but 2 volunteers have signed up to participate in future projects with us.

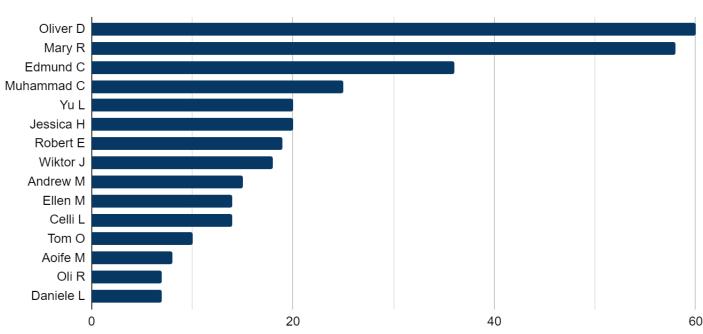
We had planned to need 20 volunteers to deliver 10 hours' tutoring each for 30 students. However, many volunteers far exceeded the minimum commitment required of them – with two tutors engaging as many as 4 students (40+ hours) through the programme.



Volunteering Hours

Tutors who register to volunteer with Tutorfair Foundation are asked to commit to a minimum of 10 hours' teaching through their placement. This is not always achievable - a volunteers' circumstances might change, they might join a programme part-way through or their student may not match their commitment. However, as is evident below, the vast majority of tutors exceed the minimum number of hours they have committed to.

Through this project, tutors volunteered an average of 22 hours' teaching and there were 0 tutor absences. Only 1 volunteer left the programme prematurely due to a change in personal circumstances and 2 volunteers began tutoring within 10 weeks of the programme's conclusion, so did not pass the 10 hour mark.



Number of Hours Volunteered Per Tutor



Objectives and Outcomes

The objectives of this programme were:

- To offer one-to-one tutoring as a resource to 3 schools in The City of Westminster
- To engage 30 students with weekly one-to-one tutoring
- To provide 300 hours of one-to-one teaching (an average of 10 hours per student)
- To engage 20 volunteers including providing training and references

Objective	Target	Outcome	Performance
Number of Westminster schools engaged	3	3	100%
Number of students who received weekly one-to-one tutoring	30	29	97%
Number of hours' one-to-one tutoring provided	300	331	110%
Average number of hours' tutoring per student	10	11.4	114%
Number of volunteer tutors trained and placed	20	15	75%

Although targets were generally met or exceeded, the distribution of the delivery was not as even as we had planned for. The average number of hours delivered per student is skewed by several students who engaged extremely well with the tutoring in November and continued through to April. Several students 'bounced' out of the programme after a small number of hours due to poor attendance or (in several cases) their exams being cancelled.

In future projects, we would like to see the distribution of 'hours per student' be more consistent across the programme. We believe that this will be easier to achieve in years when schools are not closed, or exams cancelled unexpectedly.

Breakdown of Delivery by School Partner

The delivery also varied across our three partner schools, with different levels of take-up and attendance occurring. There are myriad reasons for these differences, including how students were selected for the programme, how well they engaged with their tutor and how much time school staff had available for organising and supporting delivery.

At 83%, student attendance was lower than we expect to see, with attendance closer to 90% reasonably common across our other programmes. However, this figure is skewed due to the length of the programme as well as a small number of students whose attendance was poor across transitions into and out of the school closures in Spring Term.

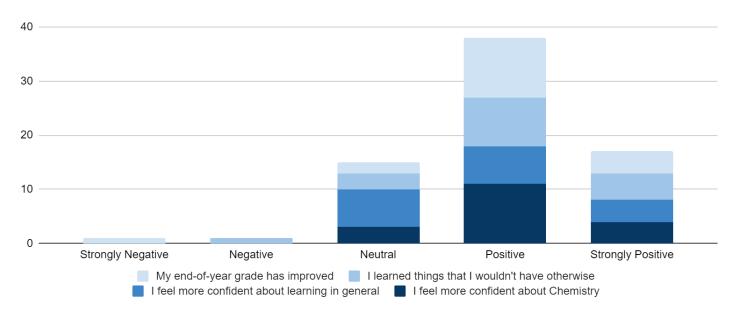
Objective	Students	Tutors	Hours	Hours per Student	Attendance
Westminster City School	14	12	127	9	85%
Pimlico Academy	12	5	156	13	85%
Westminster Academy	3	4	48	16	80%
Total	29	15	331	11.4	83%



Student Likert Scale Survey

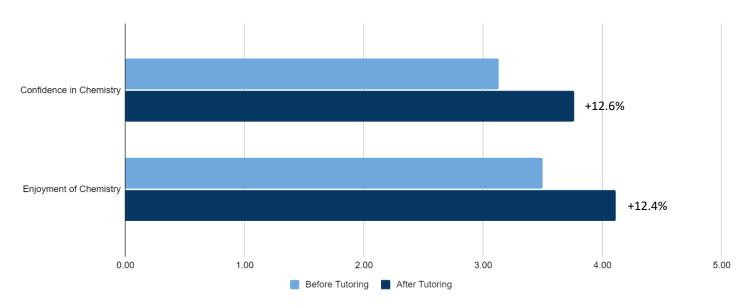
At the conclusion of the programme, students were invited to complete a post-tutoring questionnaire. This included selecting an option from 'strongly disagree' to 'strongly agree' in response to a series of statements about their tutoring. Their responses have been summarised below.

76% of all responses were positive - i.e. to 'agree' or 'strongly agree' with a positive statement. 21% of responses were neutral. The remaining 3% consists of one negative and one strongly negative response – both provided by the same student who was the last to join the programme and had suffered significant technical difficulties in early sessions.



Confidence and Enjoyment Versus Baseline

Without reference to the responses provided in their introductory survey, students were again asked to rate their enjoyment of Chemistry, their confidence in Chemistry and their confidence in their other subjects out of 5. Their responses show a clear increase in reported enjoyment of and confidence in the subject following the tutoring.

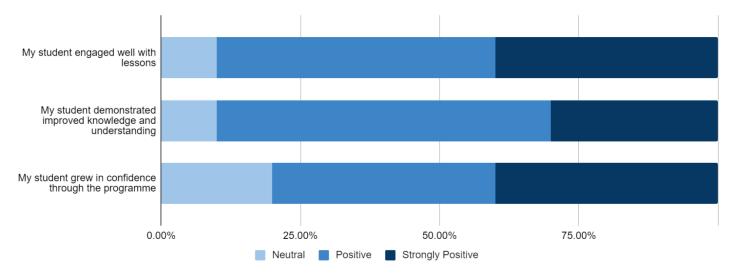




Impact

Tutor Likert Scale Survey

Tutors also completed a Likert Scale Survey, selecting responses to statements about the tutoring from a multiplechoice scale between 'strongly disagree' and 'strongly agree'. Tutors were asked about their students' engagement, subject understanding and confidence. 87% provided positive responses (i.e. to 'agree' or 'strongly agree' with a positive statement) and the remaining 13% were neutral responses.



Student Voices

Students were asked to describe in their own words the impact they had experienced. Only one respondent stated that the tutoring had had no impact on them – the same student that returned negative responses in the Likert Scale Survey. Most students identified that either their confidence, their grade or their exam technique had improved. Some student responses are shared below.





Overall Experience

Both students and tutors were invited to rate their overall experience out of 5. On average, students rated their overall experience as 4.2, with 50% of respondents choosing a rating of 5. On average, tutors rated their overall experience as 4.5, with 60% of respondents choosing a rating of 5.

Students' Average Overall Experience

4.2 / 5

Tutors' Average Overall Experience

4.5 / 5

Insights

94% of students (all but one) agreed that the description "friendly, patient and explains things well" this was an accurate depiction of their tutor. We would normally expect to see 100% approval of tutors.

Students' Approval of Technology

78%

90% of tutors believed that the online classroom technology worked well for them every time it was used. This figure is significantly higher than it has been in previous projects.

Tutors' Approval of Training

100%

88% of students said that they had enjoyed the tutoring, with several students specifically commenting that learning from someone other than their classroom teacher had been a valuable experience.

Tutors' Enjoyment of Lessons

100%

Students' Approval of Tutors

94%

78% of students believed that the technology used for online tutoring worked well for them every time it was used. This figure is higher than it has been in previous projects.

Tutors' Approval of Technology

90%

100% of tutors felt that their training was 'informative and effective' and that it made clear the course of action to take in the event of a Safeguarding incident. 90% felt that the training had directly helped them to deliver sessions.

Students' Enjoyment of Lessons

88%

100% of tutors reported that they had enjoyed their lessons. Every tutor agreed that the Foundation's team was appropriately supportive and responsive, with 70% of respondents describing the process of arranging and rearranging lessons as 'easy'.



School Testimonials

Tutorfair has helped increase the attainment of our students at Westminster City School in the subject of Chemistry. This was evident through class tests that the students carried out. Their improvement showed how the tutoring had been beneficial in increasing the knowledge of the students and having that time to review content that they were not confident with on a one-to-one basis.

Subject teachers of the students also commented multiple times on the visible improvements and confidence that the students were displaying in the classroom.

The help and support that Tutorfair has provided to our students has been immense and the students and I are grateful for this opportunity that we have been provided with. Without this help, a lot of our students would have been disadvantaged, especially due to covid. Therefore, it has been an extremely useful resource in these unprecedented times in helping our students be more confident.

N Chaudhry, Science Teacher, Westminster City School

Tutorfair have been incredibly organised throughout the process. Their communication has been excellent. They have liaised directly with students but have also kept designated school staff members informed so they could step in and support when necessary. All students who took part provided very positive feedback on the quality of sessions delivered by the tutors. Students' education and understanding of the subject improved as a direct result of the tutoring provided by Tutorfair. The students who took part would never have received such an opportunity if Tutorfair did not offer it.

A James, IBCP Coordinator and Science Teacher, Westminster Academy

Super-organised, absolutely on it! They have tracked individual students relentlessly which means every opportunity has been utilised - sometimes with these sort of programmes things are happening on paper but not actually happening to quite the same degree! But this is definitely not the case with Tutorfair, they've been a pleasure to work with and have delivered more than we originally discussed. They've been flexible when needed and generally totally focussed on what is best for the students.

I would say to anyone thinking of taking up the opportunity that you do need someone in school who will engage with it and chase students, I think if we'd left it in the hands of a busy science teacher we would not have had the same result.

S Essaye, Raising Aspirations Coordinator, Pimlico Academy



Feedback

Student Testimonials

My tutor has brought back my interest in chemistry and has in fact made me like it more than I thought I would. She has increased my confidence, and both taught and helped me with many aspects of Chemistry, Biology and other matters related to university.

Student

Experiencing a different way of being taught has helped tremendously in terms of coping with revision and revision techniques - not just for chemistry but for other subjects, too.

Student						
I enjoyed working with my tutor as he helped improve my understanding of Chemistry.	I like the 1-to-1 teaching. I can learn at my own pace and ask any questions I might not in class.					
Student	Student					
I find my tutor very helpful. He helps me understand the topics very well and he's a great tutor. I understand some aspects of chemistry much better now that he has explained them to me. I know how to approach exam questions						
as well. He's a good tutor.						

Student				
Everything to do with the tutoring experience has been great.	"	The tutoring has made me consider a Chemistry course [at university.]	,	"
Student		Student		

I've really enjoyed the Tutorfair sessions as the one-to-one help is improving my Chemistry massively. My tutor has deen very helpful, and we have gone through a lot of the content which is good

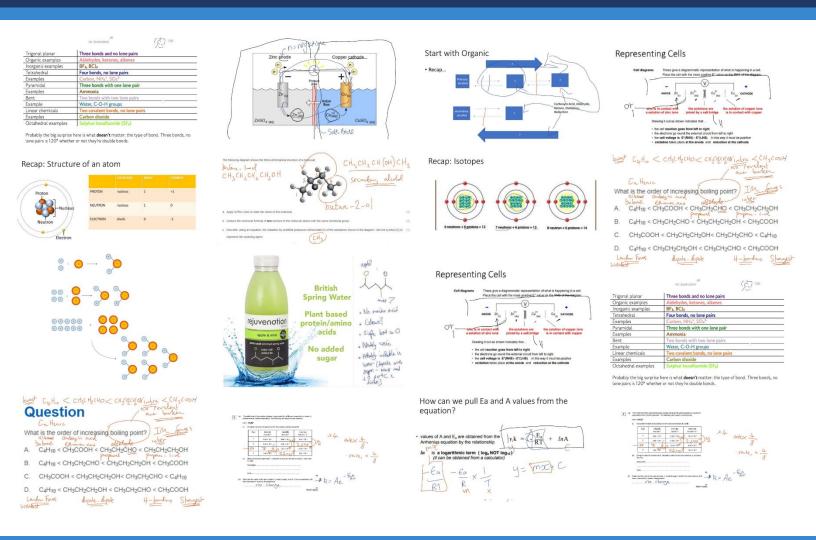
Student

I have found my Tutorfair lessons profitable, and I believe they have helped me improve my Chemistry. I really enjoy the interactivity of it and the way in which my tutor has gone about teaching me.

Student

Tutor fair foundation

The images below were captured from our virtual classroom during Chemistry lessons delivered as part of this project. Tutors and students use the interactive whiteboard to work collaboratively on resources.



This report was prepared by Joss Serraillier in June 2021

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