

Special Educational Needs in Harrow - Appendix

2023

Announcement about 2020 and 2021 data

This SEN profile reports from the January 2022 school census about pupils aged 3 to 19 with SEN at Harrow’s primary, secondary and special schools, and compares to the national picture. It contains Key Stage results from 2022.

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Appendix

A Additional Tables and Charts

Annex Table 1: The number and percentage of pupils by SEN provision, primary need and type of school

Year: January 2023

Coverage: Harrow

Pupils on SEN Support						
Primary Need	Primary Schools		Secondary Schools		Special Schools	
	#	%	#	%	#	%
Speech, Language and Communication Needs	1204	52.3%	230	15.1%	0	0.0%
Moderate Learning Difficulty	241	10.5%	295	19.3%	0	0.0%
Social, Emotional and Mental Health	304	13.2%	348	22.8%	0	0.0%
Specific Learning Difficulty	109	4.7%	151	9.9%	0	0.0%
Other Difficulty/Disorder	72	3.1%	156	10.2%	0	0.0%
Autistic Spectrum Disorder	105	4.6%	108	7.1%	0	0.0%
SEN support but no specialist assessment of type of need	157	6.8%	144	9.4%	0	0.0%
Hearing Impairment	40	1.7%	39	2.6%	0	0.0%
Physical Disability	45	2.0%	23	1.5%	0	0.0%
Visual Impairment	12	0.5%	28	1.8%	0	0.0%
Multi-Sensory Impairment	7	0.3%	3	0.2%	0	0.0%
Severe Learning Difficulty	6	0.3%	0	0.0%	0	0%
Profound & Multiple Learning Difficulty	0	0.0%	0	0.0%	0	0.0%
Grand Total	2302	100.0%	1525	100.0%	0	0%

Pupils with EHC plan						
Primary Need	Primary Schools		Secondary Schools		Special Schools	
	#	%	#	%	#	%
Autistic Spectrum Disorder	214	35.8%	112	29.5%	139	27.5%
Speech, Language and Communication Needs	217	36.3%	87	22.9%	55	10.9%
Severe Learning Difficulty	6	1.0%	5	1.3%	177	35.0%
Moderate Learning Difficulty	29	4.9%	52	13.7%	56	11.1%
Social, Emotional and Mental Health	41	6.9%	57	15.0%	0	0.0%
Physical Disability	21	3.5%	30	7.9%	7	1.4%
Profound & Multiple Learning Difficulty	3	0.5%	0	0.0%	45	8.9%
Other Difficulty/Disorder	11	1.8%	9	2.4%	15	3.0%
Specific Learning Difficulty	18	3.0%	10	2.6%	6	1.2%
Hearing Impairment	24	4.0%	13	3.4%	1	0.2%
Visual Impairment	7	1.2%	5	1.3%	3	0.6%
Multi-Sensory Impairment	6	1.0%	0	0.0%	2	0.4%
Grand Total	597	100.0%	380	100.0%	506	100.0%

Annex Table 2: The number and percentage of pupils on SEN support by age and gender (All state-funded schools: Age as at 31st August 2022)

Year: January 2023, Coverage: Harrow

Pupils on SEN Support						
Age	Girls		Boys		Total	
	#	%	#	%	#	%
3 or less	15	1.1%	57	2.3%	72	1.9%
4	68	5.0%	238	9.7%	306	8.0%
5	80	5.8%	196	8.0%	276	7.2%
6	96	7.0%	213	8.7%	309	8.1%
7	115	8.4%	227	9.2%	342	8.9%
8	97	7.1%	205	8.4%	302	7.9%
9	123	9.0%	216	8.8%	339	8.9%
10	140	10.2%	216	8.8%	356	9.3%
11	112	8.2%	171	7.0%	283	7.4%
12	114	8.3%	156	6.4%	270	7.1%
13	114	8.3%	175	7.1%	289	7.6%
14	117	8.5%	148	6.0%	265	6.9%
15	113	8.2%	159	6.5%	272	7.1%
16 and over	68	5.0%	78	3.2%	146	3.8%
Grand Total	1372	100%	2455	100%	3827	100%

Annex Table 3: The number and percentage of pupils with statements/EHC plans by age and gender (All state-funded schools: Age as at 31st August 2022)

Year: January 2023, Coverage: Harrow

Pupils with EHC plan						
Age	Girls		Boys		Total	
	#	%	#	%	#	%
3 or less	1	0.2%	1	0.1%	2	0.1%
4	28	6.5%	43	4.1%	71	4.8%
5	16	3.7%	71	6.7%	87	5.9%
6	37	8.6%	100	9.5%	137	9.2%
7	31	7.2%	91	8.6%	122	8.2%
8	28	6.5%	91	8.6%	119	8.0%
9	37	8.6%	96	9.1%	133	9.0%
10	46	10.7%	88	8.3%	134	9.0%
11	39	9.1%	102	9.7%	141	9.5%
12	42	9.8%	91	8.6%	133	9.0%
13	30	7.0%	76	7.2%	106	7.1%
14	39	9.1%	70	6.6%	109	7.3%
15	26	6.1%	67	6.4%	93	6.3%
16 and over	29	6.8%	67	6.4%	96	6.5%
Grand Total	429	100%	1054	100%	1483	100%

Includes all academies, free schools and middle schools as deemed. Excludes nursery schools, independent schools and pupil referral units.

Annex Table 4: The number of pupils on SEN support by ethnic group and primary needs (state-funded primary, secondary and special schools¹)

Year: January 2023

Coverage: Harrow

Ethnicity	SLCN	SEMH	MLD	NSA	SPLD	OTH	ASD	HI	PD	VI	MSI	SLD	Total
Asian	662	175	205	92	66	95	94	42	27	23	4	5	1490
Bangladeshi	9	5	4	1	1	1	2	3	0	0	0	0	26
Indian	277	72	51	29	28	38	40	22	16	8	4	3	588
Any Other Asian Background	281	63	115	55	28	41	39	14	8	10	0	2	656
Pakistani	95	35	35	7	9	15	13	3	3	5	0	0	220
Black	130	113	83	46	31	38	17	9	8	2	0	0	477
Black - African	80	60	42	28	10	16	12	6	5	2	0	0	261
Black Caribbean	33	43	30	12	17	12	4	2	1	0	0	0	154
Any Other Black Background	17	10	11	6	4	10	1	1	2	0	0	0	62
Chinese	11	3	0	0	1	2	1	0	0	1	0	0	19
Mixed	121	103	58	25	34	21	28	7	6	2	1	0	406
Any Other Mixed Background	51	40	19	11	15	6	10	4	4	1	0	0	161
White and Asian	30	22	9	9	8	9	9	2	1	0	1	0	100
White and Black African	12	13	5	2	2	2	4	1	0	0	0	0	41
White and Black Caribbean	28	28	25	3	9	4	5	0	1	1	0	0	104
Information Not Yet Obtained	2	1	0	1	0	1	1	0	1	0	0	0	7
Any Other Ethnic Group	71	46	35	39	12	8	8	4	3	2	1	0	229
Refused	27	11	10	3	2	1	3	0	2	0	0	0	59
White	410	200	145	95	114	62	61	17	21	10	4	1	1140
White - British	112	114	58	18	73	24	45	9	13	7	0	1	474
White - Irish	13	8	5	1	9	3	1	2	0	0	1	0	43
Traveller of Irish Heritage	4	5	0	5	0	1	0	0	0	0	0	0	15
Any Other White Background	277	72	81	71	29	34	14	6	8	3	3	0	598
Gypsy / Roma	4	1	1	0	3	0	1	0	0	0	0	0	10
Grand Total	1434	652	536	301	260	228	213	79	68	40	10	6	3827

Source: January school census 2023 via COLLECT Exports.

¹ Includes all primary academies and free schools. Excludes pupil referral units and independent schools. Also included pupils who are sole or dual main registrations.

Annex Table 5: The percentage of pupils on SEN support by ethnic group and primary needs (state-funded primary, secondary and special schools²)

Year: January 2023

Coverage: Harrow

Ethnicity	SLCN	SEMH	MLD	NSA	SPLD	OTH	ASD	HI	PD	VI	MSI	SLD	Total
Asian	44.4%	11.7%	13.8%	6.2%	4.4%	6.4%	6.3%	2.8%	1.8%	1.5%	0.3%	0.3%	1490
Bangladeshi	34.6%	19.2%	15.4%	3.8%	3.8%	3.8%	7.7%	11.5%	0.0%	0.0%	0.0%	0.0%	26
Indian	47.1%	12.2%	8.7%	4.9%	4.8%	6.5%	6.8%	3.7%	2.7%	1.4%	0.7%	0.5%	588
Any Other Asian Background	42.8%	9.6%	17.5%	8.4%	4.3%	6.3%	5.9%	2.1%	1.2%	1.5%	0.0%	0.3%	656
Pakistani	43.2%	15.9%	15.9%	3.2%	4.1%	6.8%	5.9%	1.4%	1.4%	2.3%	0.0%	0.0%	220
Black	27.3%	23.7%	17.4%	9.6%	6.5%	8.0%	3.6%	1.9%	1.7%	0.4%	0.0%	0.0%	477
Black - African	30.7%	23.0%	16.1%	10.7%	3.8%	6.1%	4.6%	2.3%	1.9%	0.8%	0.0%	0.0%	261
Black Caribbean	21.4%	27.9%	19.5%	7.8%	11.0%	7.8%	2.6%	1.3%	0.6%	0.0%	0.0%	0.0%	154
Any Other Black Background	27.4%	16.1%	17.7%	9.7%	6.5%	16.1%	1.6%	1.6%	3.2%	0.0%	0.0%	0.0%	62
Chinese	57.9%	15.8%	0.0%	0.0%	5.3%	10.5%	5.3%	0.0%	0.0%	5.3%	0.0%	0.0%	19
Mixed	29.8%	25.4%	14.3%	6.2%	8.4%	5.2%	6.9%	1.7%	1.5%	0.5%	0.2%	0.0%	406
Any Other Mixed Background	31.7%	24.8%	11.8%	6.8%	9.3%	3.7%	6.2%	2.5%	2.5%	0.6%	0.0%	0.0%	161
White and Asian	30.0%	22.0%	9.0%	9.0%	8.0%	9.0%	9.0%	2.0%	1.0%	0.0%	1.0%	0.0%	100
White and Black African	29.3%	31.7%	12.2%	4.9%	4.9%	4.9%	9.8%	2.4%	0.0%	0.0%	0.0%	0.0%	41
White and Black Caribbean	26.9%	26.9%	24.0%	2.9%	8.7%	3.8%	4.8%	0.0%	1.0%	1.0%	0.0%	0.0%	104
Information Not Yet Obtained	28.6%	14.3%	0.0%	14.3%	0.0%	14.3%	14.3%	0.0%	14.3%	0.0%	0.0%	0.0%	7
Any Other Ethnic Group	31.0%	20.1%	15.3%	17.0%	5.2%	3.5%	3.5%	1.7%	1.3%	0.9%	0.4%	0.0%	229
Refused	45.8%	18.6%	16.9%	5.1%	3.4%	1.7%	5.1%	0.0%	3.4%	0.0%	0.0%	0.0%	59
White	36.0%	17.5%	12.7%	8.3%	10.0%	5.4%	5.4%	1.5%	1.8%	0.9%	0.4%	0.1%	1140
White - British	23.6%	24.1%	12.2%	3.8%	15.4%	5.1%	9.5%	1.9%	2.7%	1.5%	0.0%	0.2%	474
White - Irish	30.2%	18.6%	11.6%	2.3%	20.9%	7.0%	2.3%	4.7%	0.0%	0.0%	2.3%	0.0%	43
Traveller of Irish Heritage	26.7%	33.3%	0.0%	33.3%	0.0%	6.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15
Any Other White Background	46.3%	12.0%	13.5%	11.9%	4.8%	5.7%	2.3%	1.0%	1.3%	0.5%	0.5%	0.0%	598
Gypsy / Roma	40.0%	10.0%	10.0%	0.0%	30.0%	0.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10
Grand Total	37.5%	17.0%	14.0%	7.9%	6.8%	6.0%	5.6%	2.1%	1.8%	1.0%	0.3%	0.2%	3827

Source: January school census 2023 via COLLECT Exports.

² Includes all primary academies and free schools. Excludes pupil referral units and independent schools. Also included pupils who are sole or dual main registrations.

Annex Table 6: The number of pupils with EHC plans by ethnic group and primary needs (state-funded primary, secondary and special schools³)

Year: January 2023

Coverage: Harrow

Ethnicity	ASD	SLCN	SLD	MLD	SEMH	PD	PMLD	HI	OTH	SPLD	VI	MSI	Total
Asian	206	160	87	58	17	25	28	23	18	11	9	1	643
Bangladeshi	6	3	2	1	0	0	1	0	0	0	0	0	13
Indian	91	64	31	20	6	8	6	11	12	6	6	0	261
Any Other Asian Background	83	79	39	30	7	9	17	10	5	3	2	1	285
Pakistani	26	14	15	7	4	8	4	2	1	2	1	0	84
Black	59	32	36	15	16	8	7	6	5	2	0	3	189
Black - African	41	15	25	7	6	4	6	5	4	1	0	2	116
Black Caribbean	11	11	5	7	9	3	0	0	1	1	0	1	49
Any Other Black Background	7	6	6	1	1	1	1	1	0	0	0	0	24
Chinese	2	0	2	1	0	0	5						
Mixed	44	36	11	13	15	3	1	1	0	4	2	0	130
Any Other Mixed Background	17	18	5	6	5	0	0	1	0	1	0	0	53
White and Asian	17	9	4	1	1	0	1	0	0	2	0	0	35
White and Black African	1	2	2	3	3	1	0	0	0	0	0	0	12
White and Black Caribbean	9	7	0	3	6	2	0	0	0	1	2	0	30
Information Not Yet Obtained	0	1	0	0	0	0	0	0	0	0	0	0	1
Any Other Ethnic Group	20	18	6	10	6	7	1	1	3	2	1	0	75
Refused	6	9	1	4	5	0	0	0	1	0	0	0	26
White	128	103	45	36	39	15	11	7	8	15	3	4	414
White - British	69	52	17	23	24	5	5	3	2	12	1	3	216
White - Irish	4	3	0	2	3	1	0	0	0	1	0	0	14
Traveller of Irish Heritage	2	1	1	0	3	0	0	0	0	0	0	0	7
Any Other White Background	53	47	27	11	9	9	6	4	6	2	2	1	177
Gypsy / Roma	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	465	359	188	137	98	58	48	38	35	34	15	8	1483

Source: January school census 2023 via COLLECT Exports.

³ Includes all primary academies and free schools. Excludes pupil referral units and independent schools. Also included pupils who are sole or dual main registrations.

Annex Table 7: The percentage⁴ of pupils with EHC plans by ethnic group and primary needs (state-funded primary, secondary and special schools⁵)

Year: January 2023

Coverage: Harrow

Ethnicity	ASD	SLCN	SLD	MLD	SEMH	PD	PMLD	HI	OTH	SPLD	VI	MSI	Total
Asian	32.0%	24.9%	13.5%	9.0%	2.6%	3.9%	4.4%	3.6%	2.8%	1.7%	1.4%	0.2%	643
Bangladeshi	46.2%	23.1%	15.4%	7.7%	0.0%	0.0%	7.7%	0.0%	0.0%	0.0%	0.0%	0.0%	13
Indian	34.9%	24.5%	11.9%	7.7%	2.3%	3.1%	2.3%	4.2%	4.6%	2.3%	2.3%	0.0%	261
Any Other Asian Background	29.1%	27.7%	13.7%	10.5%	2.5%	3.2%	6.0%	3.5%	1.8%	1.1%	0.7%	0.4%	285
Pakistani	31.0%	16.7%	17.9%	8.3%	4.8%	9.5%	4.8%	2.4%	1.2%	2.4%	1.2%	0.0%	84
Black	31.2%	16.9%	19.0%	7.9%	8.5%	4.2%	3.7%	3.2%	2.6%	1.1%	0.0%	1.6%	189
Black - African	35.3%	12.9%	21.6%	6.0%	5.2%	3.4%	5.2%	4.3%	3.4%	0.9%	0.0%	1.7%	116
Black Caribbean	22.4%	22.4%	10.2%	14.3%	18.4%	6.1%	0.0%	0.0%	2.0%	2.0%	0.0%	2.0%	49
Any Other Black Background	29.2%	25.0%	25.0%	4.2%	4.2%	4.2%	4.2%	4.2%	0.0%	0.0%	0.0%	0.0%	24
Chinese	40.0%	0.0%	40.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5
Mixed	33.8%	27.7%	8.5%	10.0%	11.5%	2.3%	0.8%	0.8%	0.0%	3.1%	1.5%	0.0%	130
Any Other Mixed Background	32.1%	34.0%	9.4%	11.3%	9.4%	0.0%	0.0%	1.9%	0.0%	1.9%	0.0%	0.0%	53
White and Asian	48.6%	25.7%	11.4%	2.9%	2.9%	0.0%	2.9%	0.0%	0.0%	5.7%	0.0%	0.0%	35
White and Black African	8.3%	16.7%	16.7%	25.0%	25.0%	8.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12
White and Black Caribbean	30.0%	23.3%	0.0%	10.0%	20.0%	6.7%	0.0%	0.0%	0.0%	3.3%	6.7%	0.0%	30
Information Not Yet Obtained	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1
Any Other Ethnic Group	26.7%	24.0%	8.0%	13.3%	8.0%	9.3%	1.3%	1.3%	4.0%	2.7%	1.3%	0.0%	75
Refused	23.1%	34.6%	3.8%	15.4%	19.2%	0.0%	0.0%	0.0%	3.8%	0.0%	0.0%	0.0%	26
White	30.9%	24.9%	10.9%	8.7%	9.4%	3.6%	2.7%	1.7%	1.9%	3.6%	0.7%	1.0%	414
White - British	31.9%	24.1%	7.9%	10.6%	11.1%	2.3%	2.3%	1.4%	0.9%	5.6%	0.5%	1.4%	216
White - Irish	28.6%	21.4%	0.0%	14.3%	21.4%	7.1%	0.0%	0.0%	0.0%	7.1%	0.0%	0.0%	14
Traveller of Irish Heritage	28.6%	14.3%	14.3%	0.0%	42.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7
Any Other White Background	29.9%	26.6%	15.3%	6.2%	5.1%	5.1%	3.4%	2.3%	3.4%	1.1%	1.1%	0.6%	177
Gypsy / Roma	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0
Grand Total	31.4%	24.2%	12.7%	9.2%	6.6%	3.9%	3.2%	2.6%	2.4%	2.3%	1.0%	0.5%	1483

Source: January school census 2023 via COLLECT Exports.

⁴ Number of pupils by primary need expressed as a percentage of all pupils of the same SEN provision and ethnic group.

⁵ Includes all primary academies and free schools. Excludes pupil referral units and independent schools. Also included pupils who are sole or dual main registrations.

Annex Table 8: The number and the percentage of pupils with SEN by language [top 5 languages (state-funded primary, secondary and special schools)]

Year: January 2019 - 2023

Coverage: Harrow

Top 5 Languages of all SEN										
Language	2019		2020		2021		2022		2023	
	#	%	#	%	#	%	#	%	#	%
English	2060	43.2%	2111	44.2%	2136	44.1%	2208	44.7%	2345	44.2%
Romanian	386	8.1%	377	7.9%	368	7.6%	381	7.7%	455	8.6%
Arabic	286	6.0%	297	6.2%	286	5.9%	301	6.1%	359	6.8%
Gujarati	256	5.4%	258	5.4%	276	5.7%	265	5.4%	295	5.6%
Tamil	289	6.1%	273	5.7%	276	5.7%	265	5.4%	254	4.8%
Urdu	157	3.3%	169	3.5%	180	3.7%	187	3.8%	209	3.9%
Pashto/Pakhto	142	3.0%	142	3.0%	158	3.3%	150	3.0%	171	3.2%
All	4770	100.0%	4774	100.0%	4841	100.0%	4938	100.0%	5310	100.0%

Source: January school census returns 2019, 2020, 2021, 2022 & 2023 via COLLECT Exports

Annex Table 9: The number and the percentage of pupils on SEN Support by language [top 5 languages (state-funded primary, secondary and special schools)]

Year: January 2019 - 2023

Coverage: Harrow

Top 5 Languages of SEN Support										
Language	2019		2020		2021		2022		2023	
	#	%	#	%	#	%	#	%	#	%
English	1550	42.5%	1568	43.8%	1554	43.6%	1579	44.2%	1649	43.1%
Romanian	323	8.8%	304	8.5%	281	7.9%	281	7.9%	350	9.1%
Arabic	245	6.7%	244	6.8%	228	6.4%	241	6.7%	277	7.2%
Gujarati	185	5.1%	185	5.2%	211	5.9%	190	5.3%	219	5.7%
Tamil	202	5.5%	186	5.2%	189	5.3%	174	4.9%	171	4.5%
All	3651	100.0%	3584	100.0%	3568	100.0%	3572	100.0%	3827	100.0%

Source: January school census returns 2019, 2020, 2021, 2022 & 2023 via COLLECT Exports

Annex Table 10: The number and the percentage of pupils with Statement/ EHCP by language [top 5 languages (state-funded primary, secondary and special schools)]

Year: January 2019 - 2023

Coverage: Harrow

Top 5 Languages of SEN EHCP/ Statement										
Language	2019		2020		2021		2022		2023	
	#	%	#	%	#	%	#	%	#	%
English	510	45.6%	543	45.6%	582	45.7%	629	46.0%	696	46.9%
Romanian	63	5.6%	73	6.1%	87	6.8%	100	7.3%	105	7.1%
Tamil	87	7.8%	87	7.3%	87	6.8%	91	6.7%	83	5.6%
Arabic	41	3.7%	53	4.5%	58	4.6%	60	4.4%	82	5.5%
Gujarati	71	6.3%	73	6.1%	65	5.1%	75	5.5%	76	5.1%
All	1119	100.0%	1190	100.0%	1273	100.00%	1366	100.0%	1483	100.0%

Source: January school census returns 2019, 2020, 2021, 2022 & 2023 via COLLECT Exports

Annex Table 11: Number and percentage of pupils on SEN support achieving the expected standard in Reading, Writing and Maths KS2 assessments by primary type of need

Year: 2023

Coverage: Harrow

KS2 - Percentage of pupils on SEN Support in Harrow achieving the Expected Standard in Reading, Writing and Maths by Primary Need in 2023		
Primary need	Number of eligible pupils	Reading, writing and maths %
Autistic Spectrum Disorder	14	57.1%
Hearing Impairment	11	63.6%
Moderate Learning Difficulty	73	5.5%
Multi Sensory Impairment	2	50.0%
SEN support but no specialist assessment of type of need	20	25.0%
Other Difficulty/Disorder	9	33.3%
Physical Disability	15	53.3%
Social, Emotional and Mental Health	76	32.9%
Speech, Language and Communication Needs	107	33.6%
Severe Learning Difficulty	0	-
Specific Learning Difficulty	24	54.2%
Visual Impairment	2	50.0%
Total	353	31.4%

Source: KS2 Results ASP (Harrow).

Annex Table 12: Number and percentage of pupils with Statement/ EHC plan achieving the expected standard in Reading, Writing and Maths KS2 assessments by primary type of need

Year: 2023

Coverage: Harrow

KS2 - Percentage of pupils with SEN EHCP in Harrow achieving the Expected Standard in Reading, Writing and Maths by Primary Need in 2023		
Primary need	Number of eligible pupils	Reading, writing and maths %
Autistic Spectrum Disorder	34	14.7%
Hearing Impairment	6	16.7%
Moderate Learning Difficulty	10	0.0%
Multi Sensory Impairment	2	0.0%
Other Difficulty/Disorder	2	0.0%
Physical Disability	5	40.0%
Profound & Multiple Learning Difficulty	4	0.0%
Social, Emotional and Mental Health	11	9.1%
Speech, Language and Communication Needs	36	16.7%
Severe Learning Difficulty	19	0.0%
Specific Learning Difficulty	5	0.0%
Visual Impairment	1	100.0%
Total	135	11.9%

Source: KS2 Results ASP (Harrow).

B Calculating Confidence Intervals

Key stage 2

As of the 2016, progress results are calculated for a school based on a specific cohort of pupils. However, some schools may have performed effectively, but have performed contrarily with a different set of pupils. To account for this statistical uncertainty, we consider a 95% confidence interval around progress scores. These work as a proxy for the range of scores within which each school's underlying performance that can be "confidently said to lie". This measure is calculated by the following formula:

$$CI_s = P_s \pm 1.96 \sqrt{\frac{\sigma_N}{n_s}}, \quad [LowerCI, Upper CI] = [P_s - CI_s, P_s + CI_s],$$

where, P_s is the school progress score, n_s is the school sample size, and σ_N is the standard deviation of the progress scores for all national pupils eligible given by the following values:

Reading	Writing	Mathematics
6.2756	6.2913	5.3356

Note that the national average progress score of all state-funded mainstream school scores is set to zero. Now, three cases can occur:

- I. When a school has their $LowerCI > 0$, i.e. lower confidence interval higher than zero, then the school's progress score is *above average* and the result is statistically significant.
- II. When a school has their $Upper CI < 0$, i.e. upper confidence interval lower than zero, then the school's progress score is *below average* and the result is statistically significant.
- III. When a school has their the confidence intervals $LowerCI < 0 < Upper CI$, i.e. straddling around zero, then we cannot say with confidence if the school's progress score is above or below average, thus we conclude that the result is statistically insignificant from the average.