

Supplementary file 6. Pupils' nutrient and food intakes on a school day: at lunch, during the school day, and during 24-hours: adjusted associations with SFS-mandated/non-mandated school status, additionally adjusted for Total Energy Intake (TEI) – full models

Table 1. Outcome: Free sugar intake

Coefficient	Free sugar (g) Lunch	Free sugar (g) School day	Free sugar (g) 24-hour day
Pupils	1,878	1,934	2,045
Schools	36	36	36
SFS Status: Mandated	-1.13 (-2.89-0.64) p = 0.210	1.55 (-1.41-4.51) p = 0.305	4.78 (-1.31-10.87) p = 0.124
TEI	0.03 (0.03-0.03) p < .001	0.04 (0.04-0.04) p < .001	0.05 (0.04-0.05) p < .001
Sex: Male	-1.41 (-2.96-0.14) p = 0.075	-2.39 (-4.55- -0.23) p = 0.030	-5.82 (-9.74- -1.91) p = 0.004
Sex: Other	-0.03 (-4.31-4.25) p = 0.989	-0.07 (-5.96-5.83) p = 0.983	-4.59 (-14.94-5.76) p = 0.385
Age	-1.94 (-4.14-0.27) p = 0.085	-1.46 (-4.55-1.63) p = 0.354	-2.36 (-7.95-3.22) p = 0.407
Ethnicity: Asian/Asian British	-1.76 (-3.86-0.35) p = 0.102	-2.85 (-5.83-0.13) p = 0.061	-10.83 (-16.26- -5.40) p < .001
Ethnicity: Black/African/Caribbean/Black British	0.25 (-3.21-3.71) p = 0.887	5.37 (0.55-10.19) p = 0.029	0.15 (-8.45-8.75) p = 0.973
Ethnicity: Mixed/Multiple	-1.56 (-4.79-1.66) p = 0.342	0.34 (-4.13-4.80) p = 0.883	-7.08 (-15.13-0.97) p = 0.085
Ethnicity: Other	-2.93 (-7.16-1.31) p = 0.176	-3.47 (-9.22-2.29) p = 0.238	-1.70 (-11.84-8.44) p = 0.742
IMD Quintile: 2	0.75 (-1.68-3.18) p = 0.544	0.67 (-2.71-4.04) p = 0.699	0.60 (-5.44-6.65) p = 0.845
IMD Quintile: 3	0.44 (-2.05-2.94) p = 0.728	0.89 (-2.62-4.40) p = 0.618	2.22 (-4.10-8.55) p = 0.491
IMD Quintile: 4	-0.04 (-2.68-2.61) p = 0.978	-2.13 (-5.84-1.59) p = 0.262	0.69 (-6.03-7.41) p = 0.841
IMD Quintile: 5	-0.96 (-3.60-1.69) p = 0.479	-0.79 (-4.54-2.95) p = 0.678	-0.38 (-7.20-6.44) p = 0.914
Source of Lunch: 100% School Provided	0.37 (-1.07-1.81) p = 0.612	0.85 (-1.12-2.82) p = 0.400	3.51 (0.05-6.96) p = 0.047
Percent FSM	0.09 (-0.009-0.19) p = 0.074	0.02 (-0.14-0.18) p = 0.785	0.18 (-0.15-0.50) p = 0.287
School Level IDACI	0.06 (-0.04-0.16) p = 0.233	0.18 (0.01-0.35) p = 0.034	0.22 (-0.12-0.57) p = 0.204
Sixth Form: Yes	-1.76 (-3.61-0.10) p = 0.063	-0.71 (-3.86-2.45) p = 0.660	-1.04 (-7.58-5.51) p = 0.756
Provision: External	0.97 (-0.71-2.66) p = 0.257	0.29 (-2.56-3.13) p = 0.843	2.10 (-3.76-7.96) p = 0.482
Religious: Secular	2.95 (-0.04-5.94) p = 0.053	1.53 (-3.65-6.70) p = 0.563	-0.27 (-11.09-10.54) p = 0.961
Year collected: 2020/2021	-1.54 (-4.60-1.53) p = 0.326	0.46 (-4.72-5.64) p = 0.862	0.37 (-10.29-11.03) p = 0.946
Year collected: 2021/2022	1.75 (-0.13-3.64) p = 0.069	2.95 (-0.21-6.11) p = 0.068	2.93 (-3.53-9.40) p = 0.374
Year: 9	3.76 (-0.99-8.51) p = 0.121	2.54 (-4.07-9.15) p = 0.452	4.48 (-7.48-16.45) p = 0.463
Year: 10	4.21 (-2.65-11.07) p = 0.229	1.07 (-8.52-10.66) p = 0.827	3.09 (-14.20-20.38) p = 0.726

Table 2: Outcome: Fat intake

Coefficient	Fat intake (g) Lunch	Fat intake (g) School day	Fat intake (g) 24-hour day
Pupils	1,878	1,934	2,045
Schools	36	36	36
SFS Status: Mandated	0.31 (-0.30-0.92) p = 0.319	-0.01 (-0.80-0.77) p = 0.976	0.25 (-1.13-1.63) p = 0.721
TEI	0.05 (0.05-0.05) p < .001	0.04 (0.04-0.04) p < .001	0.04 (0.04-0.04) p < .001
Sex: Male	-0.24 (-0.82-0.34) p = 0.409	-0.43 (-1.17-0.32) p = 0.263	-1.33 (-2.65- -0.02) p = 0.047
Sex: Other	-0.93 (-2.54-0.69) p = 0.261	-0.64 (-2.72-1.43) p = 0.544	-1.75 (-5.32-1.81) p = 0.335
Age	-0.04 (-0.87-0.78) p = 0.916	0.49 (-0.56-1.54) p = 0.360	0.46 (-1.38-2.30) p = 0.625
Ethnicity: Asian/Asian British	-0.09 (-0.87-0.69) p = 0.815	0.23 (-0.78-1.24) p = 0.654	0.54 (-1.23-2.31) p = 0.550
Ethnicity: Black/African/Caribbean/Black British	-0.41 (-1.71-0.90) p = 0.541	-0.45 (-2.13-1.24) p = 0.603	-3.05 (-5.98- -0.12) p = 0.042
Ethnicity: Mixed/Multiple	0.12 (-1.10-1.33) p = 0.851	-0.03 (-1.60-1.54) p = 0.967	0.25 (-2.52-3.02) p = 0.859
Ethnicity: Other	0.52 (-1.08-2.12) p = 0.523	1.96 (-0.06-3.98) p = 0.057	3.66 (0.16-7.16) p = 0.040
IMD Quintile: 2	0.79 (-0.12-1.70) p = 0.091	0.29 (-0.89-1.46) p = 0.631	0.47 (-1.59-2.52) p = 0.657
IMD Quintile: 3	0.39 (-0.54-1.33) p = 0.411	0.25 (-0.95-1.46) p = 0.683	-1.64 (-3.75-0.48) p = 0.129
IMD Quintile: 4	0.76 (-0.23-1.74) p = 0.134	1.58 (0.31-2.85) p = 0.015	-0.28 (-2.51-1.96) p = 0.809
IMD Quintile: 5	0.64 (-0.35-1.63) p = 0.203	0.94 (-0.34-2.21) p = 0.150	-0.75 (-3.00-1.50) p = 0.513
Source of Lunch: 100% School Provided	0.98 (0.43-1.53) p < .001	0.35 (-0.34-1.04) p = 0.318	-1.01 (-2.23-0.22) p = 0.106
Percent FSM	0.01 (-0.02-0.05) p = 0.530	0.02 (-0.02-0.07) p = 0.288	0.04 (-0.04-0.12) p = 0.289
School Level IDACI	-0.006 (-0.04-0.03) p = 0.725	-0.02 (-0.06-0.02) p = 0.373	-0.05 (-0.13-0.03) p = 0.227
Sixth Form: Yes	0.35 (-0.29-0.98) p = 0.282	0.29 (-0.52-1.11) p = 0.480	-0.42 (-1.85-1.01) p = 0.563
Provision: External	0.02 (-0.55-0.60) p = 0.934	0.002 (-0.74-0.75) p = 0.996	0.06 (-1.24-1.36) p = 0.931
Religious: Secular	0.08 (-0.94-1.09) p = 0.883	0.33 (-0.97-1.64) p = 0.617	1.10 (-1.22-3.42) p = 0.353
Year collected: 2020/2021	0.37 (-0.68-1.42) p = 0.494	0.25 (-1.11-1.60) p = 0.723	1.63 (-0.75-4.01) p = 0.178
Year collected: 2021/2022	-0.67 (-1.33- -0.02) p = 0.043	-0.80 (-1.64-0.04) p = 0.062	-0.09 (-1.56-1.38) p = 0.903
Year: 9	0.72 (-1.06-2.49) p = 0.429	-0.16 (-2.43-2.11) p = 0.891	-0.31 (-4.29-3.67) p = 0.877
Year: 10	0.98 (-1.57-3.54) p = 0.451	-0.15 (-3.42-3.13) p = 0.930	0.68 (-5.04-6.40) p = 0.815

Table 3: Outcome: Fibre intake

Coefficient	Fibre intake (g) Lunch	Fibre intake (g) School day	Fibre intake (g) 24-hour day
Pupils	1,878	1,934	2,045
Schools	36	36	36
SFS Status: Mandated	0.15 (-0.10-0.41) p = 0.242	0.04 (-0.29-0.38) p = 0.791	-0.38 (-1.12-0.36) p = 0.312
TEI	0.007 (0.007-0.007) p < .001	0.007 (0.007-0.007) p < .001	0.007 (0.007-0.007) p < .001
Sex: Male	-0.17 (-0.38-0.03) p = 0.100	-0.18 (-0.41-0.06) p = 0.138	-0.43 (-0.91-0.05) p = 0.077
Sex: Other	-0.25 (-0.82-0.31) p = 0.382	-0.30 (-0.94-0.34) p = 0.360	-0.16 (-1.42-1.10) p = 0.802
Age	0.04 (-0.25-0.34) p = 0.777	0.13 (-0.20-0.47) p = 0.437	-0.05 (-0.73-0.63) p = 0.894
Ethnicity: Asian/Asian British	0.13 (-0.15-0.41) p = 0.374	-0.01 (-0.33-0.31) p = 0.947	0.15 (-0.51-0.81) p = 0.661
Ethnicity: Black/African/Caribbean/Black British	-0.13 (-0.58-0.33) p = 0.588	-0.49 (-1.02-0.03) p = 0.065	-1.06 (-2.10- -0.008) p = 0.048
Ethnicity: Mixed/Multiple	0.12 (-0.31-0.54) p = 0.596	0.01 (-0.47-0.49) p = 0.965	0.03 (-0.95-1.01) p = 0.947
Ethnicity: Other	0.18 (-0.38-0.74) p = 0.531	-0.25 (-0.87-0.38) p = 0.436	-1.31 (-2.55- -0.08) p = 0.037
IMD Quintile: 2	-0.19 (-0.51-0.14) p = 0.260	-0.07 (-0.44-0.29) p = 0.700	0.09 (-0.64-0.83) p = 0.802
IMD Quintile: 3	-0.24 (-0.58-0.09) p = 0.152	-0.15 (-0.53-0.23) p = 0.446	0.31 (-0.46-1.08) p = 0.428
IMD Quintile: 4	-0.11 (-0.46-0.25) p = 0.557	0.09 (-0.31-0.49) p = 0.664	0.42 (-0.39-1.24) p = 0.309
IMD Quintile: 5	-0.06 (-0.41-0.30) p = 0.747	0.06 (-0.34-0.47) p = 0.765	0.97 (0.14-1.80) p = 0.023
Source of Lunch: 100% School Provided	-0.41 (-0.60- -0.21) p < .001	-0.35 (-0.57- -0.14) p = 0.001	-0.23 (-0.66-0.20) p = 0.303
Percent FSM	-0.02 (-0.03- -0.005) p = 0.008	-0.02 (-0.04- -0.001) p = 0.038	-0.03 (-0.07-0.006) p = 0.100
School Level IDACI	0.004 (-0.01-0.02) p = 0.610	0.0000 (-0.02-0.02) p = 0.999	0.005 (-0.04-0.05) p = 0.819
Sixth Form: Yes	0.51 (0.23-0.78) p < .001	0.53 (0.18-0.89) p = 0.003	0.71 (-0.09-1.50) p = 0.082
Provision: External	-0.002 (-0.25-0.24) p = 0.985	0.08 (-0.24-0.40) p = 0.637	-0.02 (-0.74-0.69) p = 0.953
Religious: Secular	-0.23 (-0.67-0.22) p = 0.320	0.08 (-0.50-0.66) p = 0.788	0.08 (-1.23-1.40) p = 0.899
Year collected: 2020/2021	0.69 (0.24-1.14) p = 0.002	0.49 (-0.09-1.07) p = 0.099	0.43 (-0.87-1.73) p = 0.517
Year collected: 2021/2022	-0.11 (-0.39-0.16) p = 0.427	-0.21 (-0.56-0.15) p = 0.249	-0.55 (-1.34-0.24) p = 0.169
Year: 9	-0.18 (-0.81-0.45) p = 0.578	-0.38 (-1.09-0.34) p = 0.304	-0.11 (-1.57-1.34) p = 0.880
Year: 10	-0.26 (-1.17-0.66) p = 0.582	-0.43 (-1.47-0.62) p = 0.424	-0.01 (-2.12-2.09) p = 0.989

Table 4: Outcome: fruit and vegetable (F&V) intake

Coefficient	F&V portions Lunch	F&V portions School day	F&V portions 24-hour day
Pupils	1,878	1,934	2,045
Schools	36	36	36
SFS Status: Mandated	-0.20 (-0.32- -0.08) p = 0.001	-0.19 (-0.31- -0.06) p = 0.005	-0.29 (-0.56- -0.02) p = 0.034
TEI	0.0006 (0.0005-0.0008) p < .001	0.0007 (0.0006-0.0008) p < .001	0.0007 (0.0007-0.0008) p < .001
Sex: Male	-0.07 (-0.17-0.02) p = 0.132	-0.07 (-0.18-0.04) p = 0.213	-0.20 (-0.39- -0.008) p = 0.041
Sex: Other	-0.16 (-0.42-0.10) p = 0.217	-0.25 (-0.56-0.05) p = 0.100	-0.32 (-0.83-0.18) p = 0.206
Age	0.04 (-0.10-0.17) p = 0.571	0.01 (-0.14-0.17) p = 0.882	0.09 (-0.17-0.36) p = 0.489
Ethnicity: Asian/Asian British	-0.04 (-0.17-0.09) p = 0.574	-0.06 (-0.21-0.09) p = 0.438	-0.08 (-0.34-0.18) p = 0.567
Ethnicity: Black/African/Caribbean/Black British	-0.003 (-0.21-0.21) p = 0.974	-0.05 (-0.30-0.19) p = 0.674	-0.02 (-0.43-0.40) p = 0.935
Ethnicity: Mixed/Multiple	0.05 (-0.14-0.25) p = 0.599	0.02 (-0.21-0.25) p = 0.846	-0.05 (-0.44-0.34) p = 0.817
Ethnicity: Other	0.05 (-0.20-0.31) p = 0.686	0.03 (-0.27-0.32) p = 0.849	-0.23 (-0.72-0.26) p = 0.359
IMD Quintile: 2	-0.04 (-0.19-0.10) p = 0.568	-0.05 (-0.23-0.12) p = 0.536	0.09 (-0.21-0.38) p = 0.560
IMD Quintile: 3	-0.03 (-0.18-0.13) p = 0.740	-0.02 (-0.19-0.16) p = 0.851	0.24 (-0.06-0.55) p = 0.118
IMD Quintile: 4	-0.04 (-0.20-0.13) p = 0.665	-0.06 (-0.24-0.13) p = 0.565	0.10 (-0.23-0.42) p = 0.563
IMD Quintile: 5	-0.04 (-0.21-0.12) p = 0.591	-0.004 (-0.19-0.19) p = 0.970	0.21 (-0.12-0.54) p = 0.216
Source of Lunch: 100% School Provided	-0.17 (-0.26- -0.09) p < .001	-0.15 (-0.25- -0.05) p = 0.003	-0.009 (-0.18-0.16) p = 0.921
Percent FSM	-0.01 (-0.02- -0.004) p = 0.001	-0.01 (-0.02- -0.007) p < .001	-0.02 (-0.04- -0.01) p = 0.001
School Level IDACI	0.004 (-0.003-0.01) p = 0.230	0.004 (-0.003-0.01) p = 0.243	0.007 (-0.008-0.02) p = 0.355
Sixth Form: Yes	0.06 (-0.07-0.18) p = 0.363	0.09 (-0.05-0.22) p = 0.208	0.12 (-0.16-0.41) p = 0.403
Provision: External	0.06 (-0.05-0.18) p = 0.266	0.09 (-0.03-0.21) p = 0.153	0.06 (-0.20-0.32) p = 0.640
Religious: Secular	0.06 (-0.14-0.26) p = 0.577	0.14 (-0.08-0.36) p = 0.222	0.23 (-0.24-0.71) p = 0.330
Year collected: 2020/2021	0.08 (-0.12-0.28) p = 0.449	0.07 (-0.16-0.29) p = 0.566	0.15 (-0.32-0.62) p = 0.527
Year collected: 2021/2022	0.14 (0.02-0.27) p = 0.025	0.14 (0.0001-0.27) p = 0.050	0.10 (-0.18-0.39) p = 0.477
Year: 9	-0.07 (-0.36-0.22) p = 0.630	-0.06 (-0.40-0.27) p = 0.708	-0.26 (-0.84-0.31) p = 0.373
Year: 10	-0.17 (-0.58-0.25) p = 0.437	-0.08 (-0.57-0.40) p = 0.743	-0.39 (-1.22-0.44) p = 0.356

Table 5: Outcome: number of sugar sweetened beverages (SSB) consumed (Poisson models)

Coefficient	SSB items Incidence Rate Ratio Lunch	SSB items Incidence Rate Ratio School day	SSB items Incidence Rate Ratio 24-hour day
Pupils	1,878	1,934	2,045
Schools	36	36	36
SFS Status: Mandated	1.15 (0.87-1.52) p = 0.316	1.16 (0.85-1.59) p = 0.351	1.32 (1.03-1.69) p = 0.030
TEI	1.00 (1.00-1.00) p < .001	1.00 (1.00-1.00) p < .001	1.00 (1.00-1.00) p < .001
Sex: Male	0.87 (0.67-1.13) p = 0.287	0.89 (0.70-1.14) p = 0.363	0.85 (0.72-1.00) p = 0.046
Sex: Other	1.07 (0.54-2.12) p = 0.846	1.21 (0.64-2.30) p = 0.555	1.02 (0.66-1.57) p = 0.937
Age	1.02 (0.71-1.46) p = 0.931	0.87 (0.62-1.24) p = 0.453	0.83 (0.66-1.05) p = 0.124
Ethnicity: Asian/Asian British	0.67 (0.44-1.01) p = 0.057	0.75 (0.51-1.10) p = 0.138	0.78 (0.61-0.99) p = 0.042
Ethnicity: Black/African/Caribbean/Black British	0.89 (0.50-1.58) p = 0.700	1.03 (0.61-1.73) p = 0.909	0.84 (0.58-1.20) p = 0.328
Ethnicity: Mixed/Multiple	0.74 (0.41-1.34) p = 0.326	0.94 (0.56-1.58) p = 0.825	0.86 (0.61-1.21) p = 0.394
Ethnicity: Other	0.95 (0.52-1.72) p = 0.858	0.77 (0.41-1.43) p = 0.399	0.67 (0.42-1.05) p = 0.078
IMD Quintile: 2	0.81 (0.56-1.18) p = 0.273	0.91 (0.63-1.30) p = 0.593	1.00 (0.79-1.28) p = 0.968
IMD Quintile: 3	0.71 (0.48-1.06) p = 0.094	0.78 (0.53-1.14) p = 0.199	0.92 (0.71-1.18) p = 0.501
IMD Quintile: 4	0.74 (0.48-1.14) p = 0.171	0.77 (0.51-1.16) p = 0.205	1.03 (0.78-1.35) p = 0.855
IMD Quintile: 5	0.56 (0.35-0.90) p = 0.016	0.72 (0.47-1.10) p = 0.131	0.73 (0.55-0.98) p = 0.034
Source of Lunch: 100% School Provided	0.97 (0.75-1.25) p = 0.796	1.12 (0.89-1.40) p = 0.320	1.23 (1.06-1.43) p = 0.005
Percent FSM	1.00 (0.98-1.02) p = 0.978	1.00 (0.98-1.02) p = 0.815	1.00 (0.99-1.01) p = 0.913
School Level IDACI	1.01 (0.99-1.03) p = 0.280	1.01 (0.99-1.03) p = 0.178	1.01 (1.00-1.03) p = 0.091
Sixth Form: Yes	1.18 (0.88-1.60) p = 0.269	1.23 (0.87-1.72) p = 0.241	1.17 (0.89-1.54) p = 0.271
Provision: External	1.05 (0.80-1.39) p = 0.731	0.89 (0.66-1.22) p = 0.475	0.94 (0.74-1.20) p = 0.609
Religious: Secular	1.94 (1.02-3.69) p = 0.045	2.36 (1.20-4.64) p = 0.012	1.20 (0.76-1.91) p = 0.429
Year collected: 2020/2021	0.87 (0.53-1.45) p = 0.602	0.92 (0.52-1.62) p = 0.768	1.20 (0.77-1.87) p = 0.427
Year collected: 2021/2022	0.67 (0.50-0.90) p = 0.008	0.72 (0.52-1.01) p = 0.055	0.88 (0.68-1.15) p = 0.360
Year: 9	0.77 (0.35-1.68) p = 0.515	1.00 (0.47-2.10) p = 0.994	1.24 (0.76-2.05) p = 0.389
Year: 10	0.69 (0.22-2.17) p = 0.528	0.97 (0.33-2.86) p = 0.950	1.13 (0.55-2.34) p = 0.738

Table 6: Outcome: number of high fat, sugar and salt (HFSS) items consumed (Poisson models)

Coefficient	HFSS items Incidence Rate Ratio Lunch	HFSS items Incidence Rate Ratio School day	HFSS items Incidence Rate Ratio 24-hour day
Pupils	1,878	1,934	2,045
Schools	36	36	36
SFS Status: Mandated	0.99 (0.89-1.10) p = 0.814	0.99 (0.91-1.07) p = 0.731	1.02 (0.94-1.10) p = 0.690
TEI	1.00 (1.00-1.00) p < .001	1.00 (1.00-1.00) p < .001	1.00 (1.00-1.00) p < .001
Sex: Male	0.85 (0.78-0.93) p < .001	0.86 (0.80-0.92) p < .001	0.86 (0.82-0.91) p < .001
Sex: Other	1.00 (0.80-1.26) p = 0.966	0.92 (0.76-1.12) p = 0.420	0.85 (0.74-0.98) p = 0.024
Age	0.91 (0.81-1.03) p = 0.144	0.98 (0.88-1.08) p = 0.621	0.95 (0.89-1.02) p = 0.172
Ethnicity: Asian/Asian British	0.84 (0.74-0.95) p = 0.006	0.81 (0.74-0.90) p < .001	0.87 (0.82-0.94) p < .001
Ethnicity: Black/African/Caribbean/Black British	0.75 (0.60-0.94) p = 0.014	0.88 (0.74-1.04) p = 0.126	0.88 (0.78-0.98) p = 0.024
Ethnicity: Mixed/Multiple	0.92 (0.77-1.11) p = 0.401	0.94 (0.81-1.10) p = 0.441	0.90 (0.81-1.00) p = 0.052
Ethnicity: Other	0.94 (0.76-1.17) p = 0.588	0.88 (0.73-1.06) p = 0.176	0.97 (0.86-1.10) p = 0.642
IMD Quintile: 2	0.95 (0.83-1.09) p = 0.475	1.03 (0.92-1.15) p = 0.638	1.01 (0.94-1.09) p = 0.740
IMD Quintile: 3	1.03 (0.90-1.19) p = 0.644	1.08 (0.97-1.22) p = 0.160	1.06 (0.98-1.15) p = 0.156
IMD Quintile: 4	1.12 (0.97-1.30) p = 0.119	1.12 (0.99-1.26) p = 0.065	1.11 (1.02-1.21) p = 0.013
IMD Quintile: 5	1.09 (0.94-1.26) p = 0.264	1.15 (1.02-1.30) p = 0.020	1.12 (1.03-1.22) p = 0.007
Source of Lunch: 100% School Provided	0.62 (0.57-0.68) p < .001	0.74 (0.69-0.80) p < .001	0.90 (0.86-0.94) p < .001
Percent FSM	0.99 (0.99-1.00) p = 0.045	1.00 (0.99-1.00) p = 0.158	1.00 (1.00-1.00) p = 0.715
School Level IDACI	1.01 (1.00-1.01) p = 0.012	1.00 (1.00-1.01) p = 0.056	1.00 (1.00-1.01) p = 0.454
Sixth Form: Yes	1.02 (0.92-1.14) p = 0.704	1.03 (0.95-1.12) p = 0.410	1.02 (0.94-1.10) p = 0.675
Provision: External	1.04 (0.94-1.15) p = 0.436	0.99 (0.92-1.07) p = 0.751	1.00 (0.93-1.08) p = 0.984
Religious: Secular	1.19 (0.98-1.45) p = 0.079	1.11 (0.96-1.28) p = 0.148	0.96 (0.84-1.11) p = 0.601
Year collected: 2020/2021	0.94 (0.78-1.13) p = 0.490	1.00 (0.88-1.15) p = 0.947	1.02 (0.89-1.17) p = 0.761
Year collected: 2021/2022	0.93 (0.83-1.04) p = 0.228	0.94 (0.87-1.03) p = 0.168	0.95 (0.88-1.04) p = 0.258
Year: 9	1.12 (0.87-1.46) p = 0.378	0.99 (0.80-1.23) p = 0.949	1.05 (0.91-1.23) p = 0.488
Year: 10	1.18 (0.81-1.72) p = 0.393	1.01 (0.74-1.37) p = 0.969	1.08 (0.87-1.34) p = 0.490

Table 7: Outcome: number of confectionery items consumed (Poisson models)

Coefficient	Confectionery items Incidence Rate Ratio Lunch	Confectionery items Incidence Rate Ratio School day	Confectionery items Incidence Rate Ratio 24-hour day
Pupils	1,878	1,934	2,045
Schools	36	36	36
SFS Status: Mandated	1.08 (0.84-1.38) p = 0.561	1.25 (1.04-1.50) p = 0.016	1.08 (0.95-1.23) p = 0.239
TEI	1.00 (1.00-1.00) p < .001	1.00 (1.00-1.00) p < .001	1.00 (1.00-1.00) p < .001
Sex: Male	0.78 (0.61-0.99) p = 0.041	0.77 (0.64-0.92) p = 0.004	0.65 (0.57-0.74) p < .001
Sex: Other	0.40 (0.16-0.99) p = 0.048	0.57 (0.31-1.05) p = 0.070	0.49 (0.31-0.76) p = 0.002
Age	0.99 (0.72-1.37) p = 0.957	0.93 (0.73-1.19) p = 0.568	0.90 (0.75-1.07) p = 0.239
Ethnicity: Asian/Asian British	0.79 (0.56-1.12) p = 0.190	0.73 (0.56-0.95) p = 0.019	0.74 (0.62-0.88) p = 0.001
Ethnicity: Black/African/Caribbean/Black British	0.65 (0.31-1.35) p = 0.246	0.93 (0.59-1.45) p = 0.742	0.75 (0.55-1.03) p = 0.077
Ethnicity: Mixed/Multiple	0.88 (0.52-1.51) p = 0.651	1.14 (0.79-1.64) p = 0.496	0.89 (0.68-1.17) p = 0.409
Ethnicity: Other	0.74 (0.39-1.41) p = 0.358	0.95 (0.61-1.50) p = 0.839	0.81 (0.57-1.14) p = 0.220
IMD Quintile: 2	1.06 (0.71-1.57) p = 0.777	1.24 (0.93-1.64) p = 0.144	1.15 (0.94-1.41) p = 0.180
IMD Quintile: 3	1.25 (0.86-1.84) p = 0.246	1.37 (1.03-1.82) p = 0.032	1.27 (1.03-1.56) p = 0.022
IMD Quintile: 4	1.58 (1.06-2.36) p = 0.024	1.30 (0.96-1.77) p = 0.088	1.20 (0.97-1.50) p = 0.097
IMD Quintile: 5	1.28 (0.85-1.92) p = 0.243	1.33 (0.98-1.81) p = 0.068	1.35 (1.09-1.67) p = 0.007
Source of Lunch: 100% School Provided	0.18 (0.13-0.26) p < .001	0.36 (0.29-0.44) p < .001	0.67 (0.59-0.76) p < .001
Percent FSM	1.00 (0.98-1.01) p = 0.836	1.00 (0.99-1.01) p = 0.836	1.01 (1.00-1.01) p = 0.083
School Level IDACI	1.00 (0.99-1.02) p = 0.626	1.00 (0.99-1.01) p = 0.848	0.99 (0.99-1.00) p = 0.187
Sixth Form: Yes	1.24 (0.97-1.59) p = 0.087	1.23 (1.02-1.49) p = 0.034	1.10 (0.96-1.27) p = 0.160
Provision: External	0.95 (0.75-1.20) p = 0.640	0.95 (0.80-1.14) p = 0.583	0.97 (0.85-1.10) p = 0.618
Religious: Secular	1.63 (0.97-2.72) p = 0.063	1.00 (0.72-1.38) p = 0.993	0.81 (0.65-1.01) p = 0.058
Year collected: 2020/2021	0.90 (0.58-1.39) p = 0.627	0.98 (0.71-1.36) p = 0.923	0.91 (0.72-1.15) p = 0.445
Year collected: 2021/2022	1.03 (0.79-1.32) p = 0.846	0.92 (0.76-1.12) p = 0.394	0.91 (0.80-1.05) p = 0.193
Year: 9	0.93 (0.46-1.86) p = 0.828	1.16 (0.68-1.97) p = 0.590	1.25 (0.85-1.83) p = 0.259
Year: 10	0.88 (0.32-2.40) p = 0.799	1.22 (0.57-2.63) p = 0.608	1.37 (0.79-2.37) p = 0.262