

Appendix 1. Demographic characteristics of the accelerometry sample (participants) compared to non-participants for this study

	Study sample Participants met minimum wear-time criteria ($\geq 600\text{min}\cdot\text{d}^{-1}$ over ≥ 3 days) (N= 298)	Excluded – Insufficient wear Did not meet wear-time criteria (N= 73)	Excluded – Lost/error Accelerometer was lost or damaged/incorrectly initialized, failed to download (N= 63)	Excluded- Not given accelerometer No accelerometer issued or refused, only random sub-set offered (N=422)
Age	11.2 (9.21; 13.24)	11.3 (9.55; 13.56)	10.9 (9.54; 13.00)	11.2 (9.51; 13.11)
Gender	44% boys	53% boys	52% boys	47% boys
Ethnicity- Language Other Than English	13.0%	21.9%	46.0%	23.2%
SEIFA Quintile (Highest = 5th)	24.6%	20.6%	30.2%	23.9%
4th	27.7%	31.5%	19.0%	28.7%
3rd	11.9%	21.9%	27.0%	16.9%
2nd	30.5%	21.9%	19.0%	26.3%
Lowest = 1st	5.3%	4.1%	4.8%	4.3%
Weight Status (with overweight/obesity)	30.9%	27.1%	33.3%	34.3%

A One-way ANOVA was conducted to examine if there was a significant difference in mean aged between the four accelerometry/non-participant type with no significant difference observed ($F(3, 852) = 5.1, p=0.228$). A series of Pearson's chi-square tests were conducted for categorical variables with no significant difference in gender distribution ($X^2_3 = 3.3, p = 0.351$), SEIFA quintile ($X^2_{12} = 16.7, p = 0.161$), and weight status category observed between the four accelerometry/non-participant types ($X^2_3 = 1.9, p = 0.604$). However, a significant difference was detected for language spoken most commonly at home and the four accelerometry/non-participant types ($X^2_3 = 36.1, p = 0.000$).

Appendix 2. Contribution of the before-school, during-school and after-school period to overall (total) PA and SB participation

Gender and Weight status	Before-school (8am-9am)	During-school (9am-3:30pm)	After-school (3:30pm-6:00pm)	Combined (8am to 6:00pm)
	LPA	LPA	LPA	LPA
Boys Normal Weight (N = 82)	7.4 (6.97; 7.89)	52.5 (50.99; 53.90)	18.6 (17.72; 19.56)	78.5 (77.16; 79.86)
Boys Overweight/obese Overweight/obese (N= 48)	6.7 (6.27; 7.23)	52.2 (50.09; 54.24)	18.2 (17.05; 19.25)	77.1 (75.32; 78.81)
Girls Normal Weight (N= 124)	7.1 (6.72; 7.49)	51.2 (50.02; 52.37)	19.1 (18.47; 19.81)	77.4 (76.34; 78.54)
Girls Overweight/obese Overweight/obese (N=44)	7.8 (7.18; 8.38)	48 (45.63; 50.38)	20.3 (18.89; 21.71)	76.1 (74.32; 77.86)
	MVPA	MVPA	MVPA	MVPA
Boys Normal Weight (N = 82)	8.4 (7.48; 9.35)	52.0 (49.94; 54.07)	19.7 (18.15; 21.24)	80.1 (78.43; 81.82)
Boys Overweight/obese Overweight/obese (N= 48)	7.6 (6.77; 8.49)	53.4 (50.17; 54.69)	19.0 (17.29; 20.74)	79.1 (77.18; 80.96)
Girls Normal Weight (N= 124)	6.8 (6.21; 7.47)**	50.1 (48.33; 51.90)	20.4 (19.26; 21.61)	77.4 (75.86; 78.92)
Girls Overweight/obese Overweight/obese (N=44)	8.7 (7.49; 9.96)	48.8 (46.15; 51.40)	20.1 (18.20; 22.03)	77.6 (75.69; 79.54)
	SED	SED	SED	SED
Boys Normal Weight (N = 82)	4.5 (4.14; 4.92)	47.0 (45.29; 48.73)*	18.3 (17.55; 19.06)*	78.5 (77.16; 79.86)
Boys Overweight/obese Overweight/obese (N= 48)	4.7 (4.21; 5.21)	44.1 (41.98; 46.28)	17.0 (15.97; 18.06)	77.1 (75.32; 78.81)
Girls Normal Weight (N= 124)	5.0 (4.74; 5.34)	46.2 (44.87; 47.55)	17.3 (16.68; 17.90)	77.4 (76.34; 78.54)
Girls Overweight/obese Overweight/obese (N=44)	4.8 (4.27; 5.34)	47.3 (45.61; 48.92)	16.8 (15.86; 17.79)	76.1 (74.32; 77.86)