

Supplementary File 3a. Teacher behaviour moderators of intervention effects on the proportion of time students spent in MVPA during PE lessons at post-intervention assessment

Teacher Behavior/Moderator Subgroups	Intervention-Control Adjusted Difference in Change (95%CI)	p	Moderator Effect Estimate (95%CI)	p
<i>Maximising Movement and Skill Development</i>			0.39 (-0.06 to 0.83)	0.090
-1 SD	5.29 (2.36 to 8.38)	0.001		
At the Mean	3.65 (1.37 to 6.05)	0.002		
+1 SD	2.00 (-0.95 to 5.07)	0.192		
<i>Reducing Transition Time</i>			0.56 (-0.07 to 1.19)	0.085
-1 SD	5.34 (2.37 to 8.45)	<0.001		
At the Mean	3.66 (1.38 to 6.08)	0.002		
+1 SD	1.99 (-0.93 to 5.04)	0.192		
<i>Supporting Students</i>			1.13 (0.48 to 1.79)	0.001
-1 SD	6.97 (4.01 to 10.09)	<0.001		
At the Mean	3.75 (1.48 to 6.15)	0.002		
+1 SD	0.52 (-2.37 to 3.53)	0.728		
<i>Building Competence</i>			0.56 (0.10 to 1.03)	0.017
-1 SD	5.99 (2.98 to 9.14)	<0.001		
At the Mean	3.67 (1.39 to 6.08)	0.002		
+1 SD	1.36 (-1.53 to 4.37)	0.369		

Note: Teacher behaviors were not measured at the maintenance assessment.

Supplementary File 3b. Student variable moderators of intervention effects on the proportion of time students spent in MVPA during PE lessons at post-intervention assessment

Student Variable Moderator Subgroups	Intervention-Control Adjusted Difference in Change (95%CI)	p	Moderator Estimate (95%CI)	p
<i>Sex</i>			-0.78 (-2.45 to 0.89)	0.361
Boys	5.30 (4.07 to 6.52)	<0.001		
Girls	6.08 (4.68 to 7.48)	<0.001		
<i>Ethnicity</i>			2.14 (0.13 to 4.13) <sup>1</sup> 2.35 (0.56 to 4.15) <sup>2</sup> 1.39 (-1.74 to 4.49) <sup>3</sup>	0.036 <sup>1</sup> 0.010 <sup>2</sup> 0.387 <sup>3</sup>
English/European	5.50 (4.45 to 6.56)	<0.001		
Aboriginal/Torres Strait Islander origin	4.00 (2.23 to 5.77)	<0.001		
Others	3.76 (2.25 to 5.29)	<0.001		
<i>SES</i>			-0.02 (-0.23 to 0.13)	0.844
-1 SD	5.79 (4.35 to 7.25)	<0.001		
At the Mean	5.89 (4.77 to 7.01)	<0.001		
+1 SD	5.98 (4.54 to 7.42)	<0.001		
<i>Amotivation</i>			-1.06 (-2.03 to -0.09)	0.033
-1 SD	4.35 (3.03 to 5.67)	<0.001		
At the Mean	5.26 (4.29 to 6.24)	<0.001		
+1 SD	6.17 (4.93 to 7.42)	<0.001		
<i>Controlled Motivation</i>			0.03 (-1.02 to 1.09)	0.949
-1 SD	5.37 (4.09 to 6.65)	<0.001		
At the Mean	5.34 (4.37 to 6.32)	<0.001		
+1 SD	5.32 (4.05 to 6.58)	<0.001		
<i>Autonomous Motivation</i>			1.27 (0.24 to 2.31)	0.016
-1 SD	6.36 (5.13 to 7.61)	<0.001		
At the Mean	5.31 (4.34 to 6.29)	<0.001		
+1 SD	4.25 (2.90 to 5.61)	<0.001		
<i>Autonomy Need Satisfaction</i>			0.33 (-0.31 to 0.96)	0.310
-1 SD	5.74 (4.52 to 6.96)	<0.001		
At the Mean	5.30 (4.32 to 6.30)	<0.001		
+1 SD	4.88 (3.53 to 6.24)	<0.001		
<i>Competence Need Satisfaction</i>			0.29 (-0.29 to 0.86)	0.331
-1 SD	5.77 (4.53 to 7.01)	<0.001		
At the Mean	5.35 (4.38 to 6.33)	<0.001		
+1 SD	4.94 (3.61 to 6.27)	<0.001		
<i>Relatedness Need Satisfaction</i>			0.53 (-0.03 to 1.10)	0.063
-1 SD	6.06 (4.82 to 7.30)	<0.001		
At the Mean	5.27 (4.29 to 6.25)	<0.001		
+1 SD	4.47 (3.15 to 5.80)	<0.001		
<i>Baseline MVPA during PE Lessons</i>			0.20 (0.09 to 0.32)	0.001
-1 SD	6.94 (5.73 to 8.16)	<0.001		
At the Mean	5.57 (4.68 to 6.47)	<0.001		
+1 SD	4.20 (3.03 to 5.38)	<0.001		

Note:<sup>1</sup> English/European versus Aboriginal/Torres Strait Islander. <sup>2</sup> English/European versus Others. <sup>3</sup> Aboriginal/Torres Strait Islander versus Others.

Supplementary File 3c. Student variable moderators of intervention effects on the proportion of time students spent in MVPA during PE lessons at maintenance assessment

Student Variable Moderator Subgroups	Intervention-Control Adjusted Difference in Change (95%CI)	<i>p</i>	Moderator Estimate (95%CI)	<i>p</i>
<i>Sex</i>			-1.33 (-2.34 to -0.32)	0.001
Boys	1.94 (0.51 to 3.40)	0.01		
Girls	3.28 (1.79 to 4.76)	<0.001		
<i>Ethnicity</i>			2.03 (-4.58 to 0.54) <sup>1</sup> 0.38 (-0.65 to 1.41) <sup>2</sup> -0.22 (-1.65 to 2.10) <sup>3</sup>	0.122 <sup>1</sup> 0.466 <sup>2</sup> 0.820 <sup>3</sup>
English/European	2.62 (1.15 to 4.10)	0.001		
Aboriginal/Torres Strait Islander origin	2.10 (0.46 to 3.78)	0.014		
Others	2.32 ( 0.73 to 3.93)	0.005		
<i>SES</i>			0.03 (-0.05 to 0.12)	0.462
-1 SD	2.89 (1.33 to 4.43)	<0.001		
At the Mean	2.70 (1.24 to 4.14)	<0.001		
+1 SD	2.50 (0.97 to 4.03)	0.002		
<i>Amotivation</i>			-0.43 (-0.99 to 0.13)	0.130
-1 SD	2.22 (0.69 to 3.77)	0.003		
At the Mean	2.59 (1.13 to 4.06)	<0.001		
+1 SD	2.96 (1.43 to 4.49)	<0.001		
<i>Controlled Motivation</i>			0.38 (-0.21 to 0.97)	0.207
-1 SD	2.88 (1.37 to 4.42)	<0.001		
At the Mean	2.59 (1.13 to 4.06)	0.001		
+1 SD	2.29 (0.77 to 3.84)	0.004		
<i>Autonomous Motivation</i>			0.26 (-0.31 to 0.83)	0.375
-1 SD	2.87 (1.35 to 4.40)	<0.001		
At the Mean	2.65 (1.20 to 4.12)	0.001		
+1 SD	2.44 (0.91 to 3.99)	0.002		
<i>Autonomy Need Satisfaction</i>			0.05 (-0.30 to 0.40)	0.798
-1 SD	2.84 (1.33 to 4.38)	<0.001		
At the Mean	2.78 (1.33 to 4.26)	<0.001		
+1 SD	2.72 (1.20 to 4.28)	0.001		
<i>Competence Need Satisfaction</i>			-0.06 (-0.39 to 0.26)	0.708
-1 SD	2.78 (1.27 to 4.32)	<0.001		
At the Mean	2.87 (1.43 to 4.34)	<0.001		
+1 SD	2.96 (1.44 to 4.51)	<0.001		
<i>Relatedness Need Satisfaction</i>			0.11 (-0.20 to 0.42)	0.497
-1 SD	2.90 (1.39 to 4.44)	<0.001		
At the Mean	2.74 (1.29 to 4.21)	<0.001		
+1 SD	2.58 (1.06 to 4.13)	0.001		
<i>Baseline MVPA during PE Lessons</i>			0.14 (0.07 to 0.20)	<0.001
-1 SD	3.74 (2.43 to 5.06)	<0.001		
At the Mean	2.82 (1.59 to 4.06)	<0.001		
+1 SD	1.91 (0.07 to 4.06)	0.004		

Note: <sup>1</sup> English/European versus Aboriginal/Torres Strait Islander. <sup>2</sup> English/European versus Others. <sup>3</sup> Aboriginal/Torres Strait Islander versus Others.