Variables	Intervention on mediator			Mediator on outcome			Intervention on outcome			Mediated effect		
	Α (β)	р	95% CI	Β (β)	р	95% CI	C' (β)	р	95% CI	AB (SE)	p	95% CI
Bootstrapped models (unadj	justed for cluste	ring)										
MVPA% in PE	4.82 (.52)	<.001	3.078 to 6.559	22 (03)	.227	588 to .139	14.35 (.19)	<.001	8.477 to 20.224	-1.08 (.95)	.256	-2.946 to .783
MVPA leisure time %	67 (13)	.199	-1.702 to .354	.21 (.01)	.598	568 to .986				14 (.37)	.706	873 to .591
Behavioral engagement	07 (10)	.295	211 to .064	-3.24 (03)	.284	-9.172 to 2.687				.24 (.39)	.539	522 to 1.000
Cognitive engagement	01 (01)	.892	179 to .156	.38 (.01)	.886	-4.819 to 5.579				.00 (.24)	.985	479 to .470
Emotional engagement	05 (05)	.607	242 to .141	-1.25 (02)	.569	-5.528 to 3.037				.06 (.27)	.820	475 to .600
Models adjusted for clusteri	ng											
MVPA% in PE	4.82 (.52)	.003	1.682 to 7.955	22 (03)	.179	552 to .103	14.35 (.19)	<.001	6.730 to 21.971	-1.08 (.91)	.233	-2.859 to .696
MVPA leisure time %	67 (13)	.221	-1.754 to .406	.21 (.01)	.602	577 to .995				14 (.32)	.664	777 to .495
Behavioral engagement	07 (10)	.286	209 to .061	-3.24 (03)	.253	-8.800 to 2.315				.24 (.31)	.436	361 to .839
Cognitive engagement	01 (01)	.878	160 to .136	.38 (.01)	.909	-6.135 to 6.895				.00 (.04)	.920	091 to .082
Emotional engagement	05 (05)	.652	268 to .168	-1.25 (02)	.549	-5.326 to 2.834				.06 (.16)	.702	258 to .383

Table 4: Multiple mediator models explaining mathematics performance

Note. Control and intervention groups were coded '0' and '1' respectively; A = unstandardized regression coefficient for treatment condition predicting mediators at 18-months; B = unstandardized regression coefficient for mediators at 18-months predicting academic performance at 18-months; β = standardized regression coefficient; AB = product-of-coefficients estimate; C' = unstandardized regression coefficient for treatment condition predicting academic performance at 18-months with adjustment for mediators, otherwise known as the direct effect; SE = standard error, 95% CI = 95% confidence interval for the mediated effect, MVPA % in PE = Percentage of time spent in moderate-to-vigorous physical activity during physical education lessons; MVPA leisure time % = Percentage of leisure time spent in moderate-to-vigorous physical activity.