*Meta-analyzed correlations involving teacher support, peer support, needs satisfaction, behavioral regulations, and student outcomes in the physical education context.*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | k | #ES | Sample size | Coefficient(r) | Lower95% CI | Upper95% CI | I2\_2 | I2\_3 | Q statistic |
| Total | Harmonic Mean |
| *Teacher autonomy support and social context constructs* |  |  |  |  |  |  |  |  |  |  |
| Teacher autonomy support – Teacher competence support | 12 | 13 | 6313 | 313 | .757 | 0.62 | 0.85 | 0.75 | 0.03 | 1181.203 |
| Teacher autonomy support – Teacher relatedness support | 14 | 14 | 10487 | 327 | .817 | 0.69 | 0.90 | 0.46 | 0.46 | 2362.787 |
| Teacher autonomy support – Teacher controlling behavior | 1 | 1 | 499 | 499 | -.188 | -0.27 | -0.10 | 0.46 | 0.46 | 0 |
| Teacher autonomy support – Teacher’s relative support | 16 | 28 | 17299 | 324 | .756 | 0.63 | 0.85 | 0.46 | 0.46 | 4182.156 |
| Teacher autonomy support – Peer support | 2 | 4 | 2347 | 562 | .422 | NA | NA | 0.70 | 0.00 | 26.28821 |
| *Teacher autonomy support and psychological needs* |  |  |  |  |  |  |  |  |  |  |
| Teacher autonomy support – Autonomy | 29 | 34 | 15919 | 227 | .704 | 0.61 | 0.78 | 0.09 | 0.90 | 2458.197 |
| Teacher autonomy support – Competence | 30 | 35 | 15897 | 227 | .458 | 0.38 | 0.53 | 0.00 | 0.96 | 695.8443 |
| Teacher autonomy support – Relatedness | 27 | 32 | 15524 | 256 | .533 | 0.46 | 0.60 | 0.01 | 0.97 | 1011.23 |
| Teacher autonomy support – Total needs satisfaction | 36 | 105 | 50343 | 241 | .568 | 0.49 | 0.64 | 0.50 | 0.49 | 7117.522 |
| Teacher autonomy support – Total needs frustration | 2 | 2 | 1516 | 670 | -.160 | -0.37 | -0.07 | 0.47 | 0.47 | 36.27193 |
| *Teacher autonomy support and motivation* |  |  |  |  |  |  |  |  |  |  |
| Teacher autonomy support – Intrinsic Motivation | 25 | 31 | 13625 | 234 | .523 | 0.47 | 0.58 | 0.40 | 0.53 | 414.7777 |
| Teacher autonomy support – Integrated Regulation | 0 | 0 | - | - | - | - | - | - | - | - |
| Teacher autonomy support – Identified Regulation | 18 | 22 | 9625 | 242 | .490 | 0.41 | 0.56 | 0.27 | 0.68 | 353.0336 |
| Teacher autonomy support – Introjected Regulation | 17 | 21 | 8336 | 231 | .199 | 0.12 | 0.28 | 0.15 | 0.77 | 192.1669 |
| Teacher autonomy support – External Regulation | 18 | 22 | 9625 | 242 | -.109 | -0.22 | 0.00 | 0.40 | 0.56 | 825.4535 |
| Teacher autonomy support – Amotivation | 26 | 60 | 25164 | 266 | -.247 | -0.32 | -0.18 | 0.27 | 0.67 | 1085.847 |
| Teacher autonomy support – Autonomous motivation | 37 | 68 | 28697 | 242 | .501 | 0.45 | 0.55 | 0.16 | 0.78 | 1194.218 |
| Teacher autonomy support – Controlled motivation | 22 | 46 | 19367 | 243 | .040 | -0.12 | 0.20 | 0.97 | 0.00 | 1578.95 |
| Teacher autonomy support – Self-determination Index | 54 | 201 | 83475 | 242 | .191 | 0.12 | 0.26 | 0.91 | 0.08 | 15580.0 |
| *Teacher autonomy support and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Teacher autonomy support – Affective outcomes | 40 | 91 | 42318 | 218 | .445 | 0.36 | 0.52 | 0.49 | 0.50 | 6426.868 |
| Teacher autonomy support – Behavioral outcomes | 44 | 84 | 25774 | 197 | .294 | 0.25 | 0.38 | 0.43 | 0.52 | 1929.396 |
| Teacher autonomy support – Cognitive outcomes | 31 | 87 | 26856 | 170 | .283 | 0.22 | 0.35 | 0.72 | 0.22 | 1624.485 |
| Teacher autonomy support – In PE outcomes | 44 | 105 | 51449 | 245 | .359 | 0.26 | 0.45 | 0.44 | 0.55 | 7557.209 |
| Teacher autonomy support – Out of PE outcomes | 20 | 136 | 34005 | 157 | .250 | 0.18 | 0.31 | 0.80 | 0.14 | 2073.121 |
| Teacher autonomy support – Adaptive outcomes | 56 | 241 | 87478 | 201 | .374 | 0.32 | 0.44 | 0.42 | 0.55 | 8205.038 |
| Teacher autonomy support – Maladaptive outcomes | 13 | 21 | 7470 | 136 | -.250 | -0.36 | -0.14 | 0.04 | 0.90 | 109.8943 |
| Teacher autonomy support – Outcomes (overall) | 58 | 262 | 94948 | 193 | .326 | 0.26 | 0.39 | 0.46 | 0.52 | 10349.31 |
| *Teacher competence support and social context constructs* |  |  |  |  |  |  |  |  |  |  |
| Teacher competence support – Teacher relatedness support | 12 | 12 | 5749 | 302 | .792 | 0.67 | 0.87 | 0.46 | 0.46 | 1499.346 |
| Teacher competence support – Teacher’s relative support | 12 | 13 | 6313 | 313 | .757 | 0.62 | 0.85 | 0.5 | 0.03 | 1818.203 |
| Teacher competence support – Peer support | 1 | 3 | 1947 | 649 | .449 | 0.33 | 0.55 | 0.72 | 0.00 | 30.14666 |
| *Teacher competence support and psychological needs* |  |  |  |  |  |  |  |  |  |  |
| Teacher competence support – Autonomy | 7 | 7 | 4391 | 422 | .601 | 0.49 | 0.69 | 0.48 | 0.48 | 137.3371 |
| Teacher competence support – Competence | 6 | 6 | 4144 | 478 | .616 | 0.50 | 0.71 | 0.48 | 0.48 | 135.0711 |
| Teacher competence support – Relatedness | 6 | 6 | 4144 | 478 | .608 | 0.50 | 0.69 | 0.48 | 0.48 | 118.0848 |
| Teacher competence support – Total needs satisfaction | 7 | 19 | 12679 | 456 | .608 | 0.53 | 0.68 | 0.58 | 0.38 | 390.968 |
| Teacher competence support – Total needs frustration | 0 | 0 | - | - | - | - | - | - | - | - |
| *Teacher competence support and motivation* |  |  |  |  |  |  |  |  |  |  |
| Teacher competence support – Intrinsic Motivation | 6 | 6 | 4144 | 478 | .623 | 0.55 | 0.68 | 0.45 | 0.45 | 58.67413 |
| Teacher competence support – Integrated Regulation | 0 | 0 | - | - | - | - | - | - | - | - |
| Teacher competence support – Identified Regulation | 4 | 4 | 2166 | 473 | .608 | 0.50 | 0.70 | 0.46 | 0.46 | 55.04766 |
| Teacher competence support – Introjected Regulation | 4 | 4 | 2166 | 473 | .317 | 0.19 | 0.43 | 0.45 | 0.45 | 49.37274 |
| Teacher competence support – External Regulation | 4 | 4 | 2166 | 473 | -.080 | -0.28 | 0.12 | 0.48 | 0.48 | 104.8497 |
| Teacher competence support – Amotivation | 7 | 14 | 6932 | 298 | -.351 | -0.44 | -0.26 | 0.23 | 0.68 | 186.2875 |
| Teacher competence support – Autonomous motivation | 6 | 10 | 6310 | 476 | .627 | 0.55 | 0.69 | 0.00 | 0.97 | 117.4986 |
| Teacher competence support – Controlled motivation | 4 | 8 | 4332 | 473 | .123 | -0.06 | 0.30 | 0.97 | 0.00 | 344.9873 |
| Teacher competence support – Self-determination Index | 8 | 33 | 18361 | 383 | .133 | -0.09 | 0.34 | 0.83 | 0.16 | 4613.904 |
| *Teacher competence support and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Teacher competence support – Affective outcomes | 5 | 7 | 6333 | 466 | .229 | -0.34 | 0.71 | 0.99 | 0.00 | 1448.152 |
| Teacher competence support – Behavioral outcomes | 8 | 8 | 2811 | 306 | .430 | 0.33 | 0.56 | 0.45 | 0.45 | 99.27441 |
| Teacher competence support – Cognitive outcomes | 6 | 8 | 4088 | 354 | .304 | 0.18 | 0.42 | 0.91 | 0.00 | 109.4845 |
| Teacher competence support – In PE outcomes | 8 | 20 | 10826 | 349 | .329 | 0.19 | 0.45 | 0.98 | 0.00 | 1643.388 |
| Teacher competence support – Out of PE outcomes | 2 | 2 | 2120 | 683 | .342 | .015 | 0.51 | 0.47 | 0.47 | 30.5602 |
| Teacher competence support – Adaptive outcomes | 8 | 19 | 10282 | 342 | .397 | 0.30 | 0.48 | 0.71 | 0.24 | 549.1612 |
| Teacher competence support – Maladaptive outcomes | 3 | 3 | 2422 | 481 | -.260 | -0.41 | -0.10 | 0.46 | 0.46 | 41.82589 |
| Teacher competence support – Outcomes (overall) | 9 | 23 | 13232 | 361 | .335 | 0.22 | 0.45 | 0.98 | 0.00 | 1679.876 |
| *Teacher relatedness support and social context constructs* |  |  |  |  |  |  |  |  |  |  |
| Teacher relatedness support – Teacher’s relative support | 15 | 26 | 16236 | 315 | .795 | 0.69 | 0.87 | 0.57 | 0.34 | 4248.902 |
| Teacher relatedness support – Peer support | 2 | 4 | 2321 | 548 | .438 | 0.40 | 0.48 | 0.32 | 0.00 | 5.817272 |
| *Teacher relatedness support and psychological needs* |  |  |  |  |  |  |  |  |  |  |
| Teacher relatedness support – Autonomy | 9 | 9 | 4994 | 384 | .646 | 0.51 | 0.75 | 0.49 | 0.49 | 307.4592 |
| Teacher relatedness support – Competence | 9 | 9 | 5736 | 441 | .522 | 0.37 | 0.65 | 0.49 | 0.49 | 320.7369 |
| Teacher relatedness support – Relatedness | 12 | 14 | 6767 | 328 | .670 | 0.56 | 0.76 | 0.59 | 0.39 | 483.5638 |
| Teacher relatedness support – Total needs satisfaction | 14 | 32 | 17497 | 370 | .620 | 0.54 | 0.69 | 0.98 | 0.00 | 1275.265 |
| Teacher relatedness support – Total needs frustration | 0 | 0 | - | - | - | - | - | - | - | - |
| *Teacher relatedness support and motivation* |  |  |  |  |  |  |  |  |  |  |
| Teacher relatedness support – Intrinsic Motivation | 13 | 13 | 8786 | 366 | .531 | 0.43 | 0.62 | 0.49 | 0.49 | 449.2365 |
| Teacher relatedness support – Integrated Regulation | 0 | 0 | - | - | - | - | - | - | - | - |
| Teacher relatedness support – Identified Regulation | 10 | 10 | 4640 | 323 | .514 | 0.44 | 0.58 | 0.45 | 0.45 | 72.42099 |
| Teacher relatedness support – Introjected Regulation | 10 | 11 | 4806 | 298 | .242 | 0.15 | 0.33 | 0.90 | 0.00 | 141.2983 |
| Teacher relatedness support – External Regulation | 9 | 10 | 4557 | 303 | -.153 | -0.31 | 0.01 | 0.00 | 0.96 | 309.8564 |
| Teacher relatedness support – Amotivation | 11 | 27 | 10549 | 258 | -.281 | -0.38 | -0.17 | 0.16 | 0.78 | 414.1287 |
| Teacher relatedness support – Autonomous motivation | 13 | 24 | 13592 | 331 | .527 | 0.44 | 0.60 | 0.05 | 0.90 | 534.4104 |
| Teacher relatedness support – Controlled motivation | 10 | 21 | 9363 | 300 | .074 | -0.05 | 0.20 | 0.97 | 0.00 | 860.793 |
| Teacher relatedness support – Self-determination Index | 18 | 76 | 35097 | 290 | .165 | 0.06 | 0.27 | 0.91 | 0.08 | 6581.58 |
| *Teacher relatedness support and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Teacher relatedness support – Affective outcomes | 12 | 22 | 15724 | 371 | .270 | 0.13 | 0.40 | 0.99 | 0.00 | 1919.459 |
| Teacher relatedness support – Behavioral outcomes | 13 | 16 | 5313 | 360 | .293 | 0.18 | 0.40 | 0.94 | 0.14 | 195.0896 |
| Teacher relatedness support – Cognitive outcomes | 10 | 15 | 9327 | 405 | .261 | 0.15 | 0.37 | 0.97 | 0.00 | 669.5587 |
| Teacher relatedness support – In PE outcomes | 15 | 41 | 22063 | 322 | .288 | 0.31 | 0.42 | 0.98 | 0.00 | 2247.577 |
| Teacher relatedness support – Out of PE outcomes | 5 | 10 | 7766 | 433 | .220 | 0.07 | 0.36 | 0.98 | 0.00 | 581.6534 |
| Teacher relatedness support – Adaptive outcomes | 18 | 41 | 23960 | 339 | .383 | 0.32 | 0.44 | 0.96 | 0.00 | 1118.155 |
| Teacher relatedness support – Maladaptive outcomes | 9 | 12 | 6404 | 324 | -.137 | -0.25 | -0.02 | 0.43 | 0.51 | 209.515 |
| Teacher relatedness support – Outcomes (overall) | 18 | 53 | 2120 | 336 | .327 | 0.19 | 0.35 | 0.98 | 0.00 | 2941.327 |
| Teacher controlling behavior – Teacher’s relative support | 2 | 2 | 1999 | 749 | -.399 | -0.63 | -0.10 | 0.45 | 0.45 | 78.83368 |
| *Teacher controlling behavior and psychological needs* |  |  |  |  |  |  |  |  |  |  |
| Teacher controlling behavior – Autonomy | 2 | 2 | 127 | 60 | .159 | 0.18 | 0.33 | - | - | 0 |
| Teacher controlling behavior – Competence | 4 | 4 | 1693 | 111 | .450 | -0.09 | 0.78 | 0.50 | 0.50 | 165.488 |
| Teacher controlling behavior – Relatedness | 2 | 2 | 127 | 60 | -.077 | -0.25 | 0.10 | 0.00 | 0.00 | 0 |
| Teacher controlling behavior – Total needs satisfaction | 5 | 9 | 2446 | 86 | .370 | -0.09 | 0.70 | 0.05 | 0.94 | 792.4133 |
| Teacher controlling behavior – Total needs frustration | 2 | 5 | 2907 | 578 | .796 | 0.78 | 0.81 | 0.98 | 0.00 | 216.2175 |
| *Teacher controlling behavior and motivation* |  |  |  |  |  |  |  |  |  |  |
| Teacher controlling behavior – Intrinsic Motivation | 3 | 4 | 3416 | 848 | .245 | -0.16 | 0.58 | 0.06 | 0.93 | 497.3077 |
| Teacher controlling behavior – Integrated Regulation | 0 | 0 | - | - | - | - | - | - | - | - |
| Teacher controlling behavior – Identified Regulation | 1 | 2 | 1850 | 925 | -.188 | -0.23 | -0.14 | 0.0 | 0.00 | 1.6596 |
| Teacher controlling behavior – Introjected Regulation | 1 | 2 | 1850 | 925 | .282 | 0.08 | 0.46 | 0.95 | 0.00 | 41.8999 |
| Teacher controlling behavior – External Regulation | 1 | 2 | 1850 | 925 | .409 | 0.19 | 0.59 | 0.96 | 0.00 | 56.47248 |
| Teacher controlling behavior – Amotivation | 2 | 3 | 2349 | 720 | .374 | 0.31 | 0.44 | 0.81 | 0.00 | 16.53106 |
| Teacher controlling behavior – Autonomous motivation | 4 | 7 | 5765 | 788 | .123 | -0.25 | 0.46 | 0.03 | 0.97 | 638.3512 |
| Teacher controlling behavior – Controlled motivation | 2 | 5 | 4199 | 790 | .356 | 0.23 | 0.47 | 0.95 | 0.00 | 118.334 |
| Teacher controlling behavior – Self-determination Index | 8 | 20 | 13108 | 279 | .173 | 0.06 | 0.28 | 0.98 | 0.00 | 1284.442 |
| *Teacher controlling behavior and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Teacher controlling behavior – Affective outcomes | 5 | 9 | 4263 | 220 | .377 | -0.10 | 0.71 | 0.04 | 0.95 | 1068.469 |
| Teacher controlling behavior – Behavioral outcomes | 7 | 15 | 8809 | 300 | .039 | -0.25 | 0.32 | 0.55 | 0.44 | 1713.516 |
| Teacher controlling behavior – Cognitive outcomes | 0 | 0 | - | - | - | - | - | - | - | - |
| Teacher controlling behavior – In PE outcomes | 9 | 24 | 13072 | 264 | .198 | -0.15 | 0.50 | 0.22 | 0.78 | 2784.0.51 |
| Teacher controlling behavior – Out of PE outcomes | 0 | 0 | - | - | - | - | - | - | - | - |
| Teacher controlling behavior – Adaptive outcomes  | 7 | 14 | 6257 | 187 | -.274 | -0.60 | 0.13 | 0.23 | 0.76 | 1641.606 |
| Teacher controlling behavior – Maladaptive outcomes | 3 | 10 | 6815 | 627 | .448 | 0.24 | 0.62 | 0.17 | 0.80 | 140.4947 |
| Teacher controlling behavior – Outcomes (overall) | 9 | 24 | 13072 | 264 | .198 | -0.15 | 0.50 | 0.22 | 0.78 | 2784.051 |
| Teacher’s relative support – Peer support | 6 | 14 | 7731 | 364 | .410 | 0.34 | 0.48 | 0.92 | 0.00 | 167.8989 |
| *Teacher’s relative support and psychological needs* |  |  |  |  |  |  |  |  |  |  |
| Teacher’s relative support – Autonomy | 47 | 71 | 33650 | 214 | .607 | 0.51 | 0.69 | 0.46 | 0.53 | 6731.532 |
| Teacher’s relative support – Competence | 52 | 76 | 38527 | 227 | .367 | 0.28 | 0.44 | 0.65 | 0.33 | 6177.197 |
| Teacher’s relative support – Relatedness | 47 | 70 | 33593 | 222 | .493 | 0.42 | 0.56 | 0.09 | 0.89 | 2667.486 |
| Teacher’s relative support – Total needs satisfaction | 63 | 225 | 111129 | 226 | .483 | 0.41 | 0.55 | 0.53 | 0.46 | 19841.71 |
| Teacher’s relative support – Total needs frustration | 3 | 7 | 4423 | 602 | -.546 | -0.82 | -0.06 | 0.27 | 0.72 | 1230.108 |
| *Teacher’s relative support and motivation* |  |  |  |  |  |  |  |  |  |  |
| Teacher’s relative support – Intrinsic Motivation | 49 | 89 | 46107 | 281 | .459 | 0.40 | 0.51 | 0.70 | 0.28 | 4851.444 |
| Teacher’s relative support – Integrated Regulation | 0 | 0 | - | - | - | - | - | - | - | - |
| Teacher’s relative support – Identified Regulation | 33 | 47 | 21876 | 257 | .479 | 0.42 | 0.53 | 0.24 | 0.71 | 902.7806 |
| Teacher’s relative support – Introjected Regulation | 28 | 43 | 19633 | 255 | .190 | 0.12 | 0.26 | 0.15 | 0.79 | 944.1823 |
| Teacher’s relative support – External Regulation | 34 | 49 | 22546 | 256 | -.065 | -0.18 | 0.05 | 0.16 | 0.82 | 2959.581 |
| Teacher’s relative support – Amotivation | 39 | 113 | 48409 | 261 | -.235 | -0.29 | -0.18 | 0.22 | 0.72 | 1917.356 |
| Teacher’s relative support – Autonomous motivation | 64 | 157 | 77645 | 272 | .467 | 0.42 | 0.51 | 0.48 | 0.49 | 6508.219 |
| Teacher’s relative support – Controlled motivation | 40 | 97 | 44414 | 261 | .049 | 0.02 | 0.12 | 0.83 | 0.15 | 5100.291 |
| Teacher’s relative support – Self-determination Index | 90 | 411 | 186595 | 255 | .206 | 0.15 | 0.26 | 0.86 | 0.13 | 36659.61 |
| *Teacher’s relative support and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Teacher’s relative support – Affective outcomes | 60 | 157 | 79243 | 230 | .340 | 0.25 | 0.42 | 0.46 | 0.53 | 13854.71 |
| Teacher’s relative support – Behavioral outcomes | 70 | 155 | 62733 | 213 | .291 | 0.23 | 0.35 | 0.54 | 0.44 | 7220.462 |
| Teacher’s relative support – Cognitive outcomes | 36 | 122 | 47622 | 206 | .264 | 0.21 | 0.32 | 0.64 | 0.31 | 2746.72 |
| Teacher’s relative support – In PE outcomes | 73 | 252 | 131160 | 250 | .332 | 0.26 | 0.40 | 0.52 | 0.47 | 21201 |
| Teacher’s relative support – Out of PE | 25 | 153 | 45429 | 167 | .253 | 0.20 | 0.31 | 0.82 | 0.13 | 2793.535 |
| Teacher’s relative support – Adaptive outcomes  | 89 | 382 | 161496 | 216 | .389 | 0.34 | 0.43 | 0.44 | 0.54 | 12754.95 |
| Teacher’s relative support – Enjoyment | 22 | 28 | 21540 | 182 | .442 | 0.33 | 0.54 | 0.08 | 0.90 | 1112.061 |
| Teacher’s relative support – Intentions | 18 | 28 | 13199 | 218 | .229 | 0.17 | 0.29 | 0.03 | 0.85 | 379.3334 |
| Teacher’s relative support – Leisure-time physical activity | 19 | 26 | 7622 | 189 | .214 | 0.16 | 0.27 | 0.82 | 0.00 | 149.0411 |
| Teacher’s relative support – Maladaptive outcomes | 25 | 52 | 28102 | 222 | -.260 | -0.32 | -0.20 | 0.42 | 0.53 | 972.9953 |
| Teacher’s relative support – Boredom | 6 | 10 | 7381 | 237 | -.211 | -0.35 | -0.07 | 0.43 | 0.53 | 332.3978 |
| Teacher’s relative support – Negative affect | 1 | 3 | 906 | 302 | -.261 | -0.32 | -0.20 | 0.00 | 0.00 | 0.976733 |
| Teacher’s relative support – Pressure | 0 | 0 | - | - | - | - | - | - | - | - |
| Teacher’s relative support – Outcomes (overall) | 92 | 434 | 189598 | 217 | .310 | 0.26 | 0.36 | 0.53 | 0.46 | 24493.09 |
| *Peer support and psychological needs* |  |  |  |  |  |  |  |  |  |  |
| Peer support – Autonomy | 4 | 6 | 3398 | 537 | .389 | 0.23 | 0.52 | 0.00 | 0.94 | 64.7373 |
| Peer support – Competence | 4 | 6 | 3398 | 537 | .272 | 0.19 | 0.35 | 0.32 | 0.47 | 23.76874 |
| Peer support – Relatedness | 5 | 7 | 37772 | 505 | .691 | 0.43 | 0.84 | 0.24 | 0.74 | 625.8202 |
| Peer support – Total needs satisfaction | 5 | 20 | 10942 | 514 | .505 | 0.37 | 0.62 | 0.99 | 0.00 | 1567.282 |
| Peer support – Total needs frustration | 0 | 0 | - | - | - | - | - | - | - | - |
| *Peers support and motivation* |  |  |  |  |  |  |  |  |  |  |
| Peer support – Intrinsic Motivation | 1 | 3 | 1947 | 649 | .288 | 0.21 | 0.36 | 0.73 | 0.00 | 11.15426 |
| Peer support – Integrated Regulation | 0 | 0 | - | - | - | - | - | - | - | - |
| Peer support – Identified Regulation | 1 | 3 | 1947 | 649 | .408 | 0.33 | 0.48 | 0.74 | 0.00 | 11.67106 |
| Peer support – Introjected Regulation | 1 | 3 | 1947 | 649 | .322 | 0.26 | 0.38 | 0.48 | 0.00 | 5.727865 |
| Peer support – External Regulation | 1 | 3 | 1947 | 649 | .251 | 0.21 | 0.29 | 0.00 | 0.00 | 0.3014666 |
| Peer support – Amotivation | 1 | 3 | 1947 | 649 | -.123 | -0.17 | -0.08 | 0.00 | 0.00 | 1.205866 |
| Peer support – Autonomous motivation | 2 | 7 | 4550 | 650 | .343 | 0.28 | 0.40 | 0.84 | 0.00 | 42.61461 |
| Peer support – Controlled motivation | 1 | 6 | 3894 | 649 | .287 | 0.25 | 0.33 | 0.49 | 0.00 | 11.7249 |
| Peer support – Self-determination Index | 4 | 18 | 11186 | 607 | .232 | 0.15 | 0.31 | 0.95 | 0.00 | 388.687 |
| *Peer support and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Peer support – Affective outcomes | 3 | 10 | 3907 | 390 | .417 | 0.10 | 0.66 | 0.58 | 0.40 | 620.8108 |
| Peer support – Behavioral outcomes | 4 | 8 | 2734 | 177 | .257 | 0.11 | 0.39 | 0.01 | 0.86 | 80.27364 |
| Peer support – Cognitive outcomes | 1 | 3 | 1200 | 400 | .551 | 0.51 | 0.59 | 0.00 | 0.00 | 2.1438 |
| Peer support – In PE outcomes | 2 | 6 | 1626 | 145 | .214 | -0.04 | 0.44 | 0.96 | 0.00 | 210.435 |
| Peer support – Out of PE outcomes | 3 | 12 | 5030 | 411 | .362 | 0.05 | 0.61 | 0.36 | 0.61 | 349.2231 |
| Peer support – Adaptive outcomes | 5 | 20 | 7467 | 265 | .334 | 0.15 | 0.50 | 0.44 | 0.52 | 533.7074 |
| Peer support – Maladaptive outcomes | 1 | 1 | 374 | 374 | -.345 | -0.43 | -0.25 | 0.50 | 0.50 | 0 |
| Peer support – Outcomes (overall) | 5 | 21 | 7841 | 268 | .313 | 0.11 | 0.49 | 0.56 | 0.41 | 786.5199 |
| Autonomy – Competence | 54 | 66 | 32833 | 285 | .651 | 0.58 | 0.71 | 0.08 | 0.91 | 5864.978 |
| Autonomy – Relatedness | 51 | 62 | 30482 | 280 | .596 | 0.54 | 0.65 | 0.60 | 0.38 | 2941.103 |
| *Autonomy and motivation* |  |  |  |  |  |  |  |  |  |  |
| Autonomy – Intrinsic Motivation | 33 | 45 | 19637 | 246 | .608 | 0.55 | 0.66 | 0.15 | 0.81 | 1433.764 |
| Autonomy – Integrated Regulation | 1 | 1 | 1035 | 1035 | .658 | 0.62 | 0.69 | 0.50 | 0.50 | 0 |
| Autonomy – Identified Regulation | 27 | 34 | 13493 | 216 | .539 | 0.47 | 0.60 | 0.09 | 0.87 | 964.3973 |
| Autonomy – Introjected Regulation | 28 | 35 | 12779 | 213 | .346 | 0.26 | 0.42 | 0.22 | 0.73 | 809.4907 |
| Autonomy – External Regulation | 29 | 36 | 14082 | 220 | -.131 | -0.23 | -0.03 | 0.13 | 0.84 | 912.3109 |
| Autonomy – Amotivation | 26 | 44 | 20058 | 288 | -.288 | -0.36 | -0.20 | 0.34 | 0.62 | 1317.835 |
| Autonomy – Autonomous motivation | 42 | 91 | 39530 | 237 | .565 | 0.52 | 0.61 | 0.19 | 0.77 | 2817.283 |
| Autonomy – Controlled motivation | 32 | 74 | 27572 | 215 | .080 | -0.01 | 0.17 | 0.98 | 0.00 | 3681.837 |
| Autonomy – Self-determination Index | 55 | 229 | 96239 | 242 | .310 | 0.24 | 0.38 | 0.93 | 0.06 | 23141.9 |
| *Autonomy and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Autonomy – Affective outcomes | 38 | 84 | 39478 | 263 | .480 | 0.41 | 0.54 | 0.53 | 0.45 | 4452.615 |
| Autonomy – Behavioral outcomes | 34 | 64 | 22696 | 234 | .329 | 0.27 | 0.39 | 0.26 | 0.68 | 882.8606 |
| Autonomy – Cognitive outcomes | 19 | 31 | 13093 | 297 | .403 | 0.32 | 0.48 | 0.29 | 0.67 | 761.9699 |
| Autonomy – In PE outcomes | 38 | 96 | 41210 | 230 | .478 | 0.42 | 0.53 | 0.56 | 0.42 | 4336.056 |
| Autonomy – Out of PE outcomes | 20 | 59 | 23389 | 273 | .343 | 0.27 | 0.42 | 0.28 | 0.66 | 1074.389 |
| Autonomy – Adaptive outcomes | 50 | 157 | 64659 | 262 | .439 | 0.35 | 0.49 | 0.27 | 0.71 | 7060.165 |
| Autonomy – Enjoyment | 13 | 14 | 5569 | 188 | .626 | 0.55 | 0.69 | 0.01 | 0.93 | 328.5677 |
| Autonomy – Intentions | 13 | 13 | 5972 | 250 | .412 | 0.32 | 0.50 | 0.47 | 0.47 | 255.796 |
| Autonomy – Leisure-time physical activity | 12 | 18 | 5451 | 216 | .269 | 0.19 | 0.35 | 0.92 | 0.00 | 223.6504 |
| Autonomy – Maladaptive outcomes | 16 | 22 | 10608 | 226 | -.262 | -0.35 | -0.17 | 0.56 | 0.40 | 597.3015 |
| Autonomy – Boredom | 6 | 6 | 3060 | 156 | -.279 | -0.47 | -0.05 | 0.48 | 0.48 | 270.1471 |
| Autonomy – Negative affect | 4 | 4 | 1528 | 237 | -.449 | -0.49 | -0.40 | 0.00 | 0.00 | 3.705079 |
| Autonomy – Pressure | 1 | 1 | 507 | 507 | - | - | - | - | - | - |
| Autonomy – Outcomes (overall) | 50 | 179 | 75267 | 257 | .427 | 0.37 | 0.48 | 0.41 | 0.55 | 7081.651 |
| Competence – Relatedness | 50 | 62 | 29643 | 267 | .584 | 0.54 | 0.62 | 0.41 | 0.55 | 1346.914 |
| *Competence and motivation* |  |  |  |  |  |  |  |  |  |  |
| Competence – Intrinsic Motivation | 53 | 77 | 34717 | 278 | .624 | 0.57 | 0.67 | 0.06 | 0.92 | 3999.749 |
| Competence – Integrated Regulation | 2 | 2 | 1155 | 215 | .779 | 0.40 | 0.93 | 0.49 | 0.49 | 83.23875 |
| Competence – Identified Regulation | 38 | 46 | 19222 | 231 | .600 | 0.53 | 0.67 | 0.05 | 0.93 | 2288.444 |
| Competence – Introjected Regulation | 39 | 46 | 18374 | 232 | .272 | 0.19 | 0.34 | 0.11 | 0.85 | 1279.321 |
| Competence – External Regulation | 41 | 51 | 20863 | 237 | -.104 | -0.19 | -0.01 | 0.21 | 0.76 | 1792.998 |
| Competence – Amotivation | 32 | 51 | 22444 | 276 | -.426 | -0.48 | -0.35 | 0.40 | 0.55 | 1184.763 |
| Competence – Autonomous motivation | 66 | 140 | 61432 | 257 | .597 | 0.55 | 0.64 | 0.16 | 0.81 | 7119.12 |
| Competence – Controlled motivation | 46 | 101 | 40225 | 232 | .074 | 0.04 | 0.11 | 0.98 | 0.00 | 4985.708 |
| Competence – Self-determination Index | 82 | 319 | 138789 | 257 | .320 | 0.26 | 0.38 | 0.95 | 0.04 | 41306.2 |
| *Competence and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Competence – Affective outcomes | 70 | 151 | 79474 | 263 | .560 | 0.51 | 0.60 | 0.77 | 0.21 | 10439.31 |
| Competence – Behavioral outcomes | 70 | 148 | 70641 | 269 | .484 | 0.43 | 0.54 | 0.30 | 0.67 | 5327.355 |
| Competence – Cognitive outcomes | 34 | 62 | 32244 | 264 | .498 | 0.43 | 0.56 | 0.70 | 0.27 | 2384.242 |
| Competence – In PE outcomes | 83 | 217 | 102554 | 234 | .534 | 0.49 | 0.59 | 0.62 | 0.36 | 12750.56 |
| Competence – Out of PE outcomes | 38 | 103 | 58725 | 316 | .465 | 0.41 | 0.52 | 0.59 | 0.39 | 4202.792 |
| Competence – Adaptive outcomes | 105 | 314 | 160710 | 278 | .524 | 0.48 | 0.57 | 0.44 | 0.54 | 19172.39 |
| Competence – Enjoyment | 34 | 40 | 21363 | 202 | .649 | 0.59 | 0.70 | 0.18 | 0.80 | 1557.954 |
| Competence – Intentions | 22 | 27 | 16422 | 289 | .548 | 0.48 | 0.61 | 0.24 | 0.73 | 607.9957 |
| Competence – Leisure-time physical activity | 23 | 36 | 19452 | 302 | .402 | 0.32 | 0.48 | 0.42 | 0.55 | 889.1627 |
| Competence – Maladaptive outcomes | 31 | 47 | 21649 | 204 | -.274 | -0.39 | -0.15 | 0.69 | 0.30 | 3092.718 |
| Competence – Boredom | 7 | 7 | 3818 | 176 | -.389 | -0.66 | -0.04 | 0.50 | 0.50 | 787.484 |
| Competence – Negative affect | 4 | 4 | 1528 | 237 | -.397 | -0.50 | -0.28 | 0.33 | 0.33 | 30.48893 |
| Competence – Pressure | 8 | 8 | 4757 | 183 | -.418 | -0.68 | -0.06 | 0.50 | 0.50 | 832.3137 |
| Competence – Outcomes (overall) | 107 | 361 | 182359 | 266 | .513 | 0.47 | 0.55 | 0.55 | 0.43 | 19171.54 |
| *Relatedness and motivation* |  |  |  |  |  |  |  |  |  |  |
| Relatedness – Intrinsic Motivation | 34 | 45 | 19739 | 245 | .546 | 0.49 | 0.60 | 0.00 | 0.96 | 1200.911 |
| Relatedness – Integrated Regulation | 1 | 1 | 1035 | 1035 | .300 | 0.24 | 0.36 | 0.50 | 0.50 | 0 |
| Relatedness – Identified Regulation | 30 | 37 | 14603 | 220 | .513 | 0.46 | 0.57 | 0.06 | 0.88 | 710.084 |
| Relatedness – Introjected Regulation | 30 | 37 | 13598 | 215 | .269 | 0.19 | 0.35 | 0.23 | 0.72 | 669.4537 |
| Relatedness – External Regulation | 32 | 39 | 15192 | 223 | -.074 | -0.14 | 0.00 | 0.00 | 0.94 | 592.9022 |
| Relatedness – Amotivation | 28 | 46 | 20974 | 290 | -.297 | -0.36 | -0.23 | 0.17 | 0.77 | 593.4189 |
| Relatedness – Autonomous motivation | 45 | 97 | 41515 | 237 | .511 | 0.46 | 0.56 | 0.06 | 0.89 | 2223.138 |
| Relatedness – Controlled motivation | 36 | 80 | 29875 | 218 | .086 | 0.02 | 0.15 | 0.97 | 0.00 | 2360.506 |
| Relatedness – Self-determination Index | 59 | 244 | 101301 | 243 | .271 | 0.21 | 0.33 | 0.88 | 0.10 | 17701.42 |
| *Relatedness and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Relatedness – Affective outcomes | 42 | 96 | 43558 | 268 | .470 | 0.42 | 0.51 | 0.70 | 0.26 | 3069.381 |
| Relatedness – Behavioral outcomes | 34 | 66 | 22454 | 227 | .348 | 0.28 | 0.41 | 0.22 | 0.73 | 1337.632 |
| Relatedness – Cognitive outcomes | 19 | 31 | 13088 | 297 | .387 | 0.30 | 0.46 | 0.17 | 0.77 | 603.6847 |
| Relatedness – In PE outcomes | 41 | 109 | 44974 | 231 | .454 | 0.41 | 0.50 | 0.65 | 0.32 | 3341.281 |
| Relatedness – Out of PE outcomes | 21 | 60 | 23932 | 277 | .348 | 0.28 | 0.42 | 0.38 | 0.56 | 1178.01 |
| Relatedness – Adaptive outcomes | 53 | 167 | 67415 | 262 | .426 | 0.38 | 0.47 | 0.39 | 0.57 | 4849.132 |
| Relatedness – Enjoyment | 14 | 15 | 6149 | 202 | .601 | 0.51 | 0.68 | 0.00 | 0.96 | 334.3802 |
| Relatedness – Intentions | 12 | 12 | 5886 | 296 | .428 | 0.33 | 0.51 | 0.47 | 0.47 | 191.2753 |
| Relatedness – Leisure-time physical activity | 12 | 18 | 5722 | 226 | .292 | 0.25 | 0.33 | 0.89 | 0.00 | 171.9011 |
| Relatedness – Maladaptive outcomes | 19 | 26 | 11685 | 224 | -.318 | -0.40 | -0.24 | 0.41 | 0.54 | 565.2307 |
| Relatedness – Boredom | 5 | 5 | 2974 | 186 | -.313 | -0.45 | 0.16 | 0.46 | 0.46 | 113.3976 |
| Relatedness – Negative affect | 3 | 3 | 965 | 199 | -.359 | -0.41 | -0.30 | 0.00 | 0.00 | 0.1413272 |
| Relatedness – Pressure | 1 | 1 | 507 | 507 | - | - | - | - | - | - |
| Relatedness – Outcomes (overall) | 53 | 193 | 79100 | 256 | .414 | 0.37 | 0.46 | 0.49 | 0.47 | 5610.566 |
| *Total needs satisfaction and motivation* |  |  |  |  |  |  |  |  |  |  |
| Total needs satisfaction – Intrinsic Motivation | 55 | 165 | 74785 | 270 | .590 | 0.55 | 0.63 | 0.64 | 0.33 | 7079.43 |
| Total needs satisfaction – Integrated Regulation | 2 | 4 | 3225 | 356 | .661 | 0.36 | 0.84 | 0.99 | 0.00 | 722.1565 |
| Total needs satisfaction – Identified Regulation | 40 | 115 | 48010 | 235 | .561 | 0.52 | 0.61 | 0.66 | 0.31 | 4303.047 |
| Total needs satisfaction – Introjected Regulation | 41 | 116 | 45443 | 232 | .288 | 0.22 | 0.35 | 0.20 | 0.76 | 2807.712 |
| Total needs satisfaction – External Regulation | 43 | 124 | 50829 | 239 | -.101 | -0.17 | -0.02 | 0.18 | 0.79 | 3430.258 |
| Total needs satisfaction – Amotivation | 39 | 144 | 68087 | 306 | -.315 | -0.39 | -0.23 | 0.24 | 0.74 | 5813.696 |
| Total needs satisfaction – Autonomous motivation | 73 | 329 | 147092 | 257 | .562 | 0.53 | 0.60 | 0.59 | 0.39 | 13804.29 |
| Total needs satisfaction – Controlled motivation | 52 | 254 | 100800 | 234 | .086 | 0.03 | 0.14 | 0.85 | 0.13 | 11465.61 |
| Total needs satisfaction – Self-determination Index | 94 | 793 | 348958 | 263 | .330 | 0.28 | 0.38 | 0.89 | 0.10 | 89060.33 |
| *Total needs satisfaction and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Total needs satisfaction – Affective outcomes | 78 | 332 | 165567 | 277 | .537 | 0.49 | 0.58 | 0.60 | 0.38 | 20040.8 |
| Total needs satisfaction – Behavioral outcomes | 83 | 295 | 122822 | 249 | .450 | 0.40 | 0.50 | 0.33 | 0.65 | 11700.11 |
| Total needs satisfaction – Cognitive outcomes | 36 | 126 | 62091 | 302 | .461 | 0.41 | 0.51 | 0.57 | 0.40 | 4333.795 |
| Total needs satisfaction – In PE outcomes | 96 | 432 | 199157 | 243 | .516 | 0.48 | 0.55 | 0.61 | 0.37 | 25055.88 |
| Total needs satisfaction – Out of PE outcomes | 40 | 228 | 108065 | 294 | .407 | 0.36 | 0.46 | 0.57 | 0.39 | 7259.37 |
| Total needs satisfaction – Adaptive outcomes | 117 | 657 | 304399 | 276 | .508 | 0.47 | 0.55 | 0.38 | 0.60 | 34950.67 |
| Total needs satisfaction – Maladaptive outcomes | 37 | 96 | 46081 | 230 | -.262 | -0.34 | -0.18 | 0.54 | 0.44 | 4340.113 |
| Total needs satisfaction – Outcomes (overall) | 120 | 753 | 350480 | 269 | .488 | 0.45 | 0.52 | 0.51 | 0.47 | 38140.38 |
| *Total needs frustration and motivation* |  |  |  |  |  |  |  |  |  |  |
| Total needs frustration – Intrinsic Motivation | 1 | 3 | 258 | 86 | -.449 | -0.54 | -0.34 | 0.00 | 0.00 | 1.150933 |
| Total needs frustration – Integrated Regulation | 0 | 0 | - | - | - | - | - | - | - | - |
| Total needs frustration – Identified Regulation | 1 | 3 | 258 | 86 | -.388 | -0.49 | -0.28 | 0.00 | 0.00 | - |
| Total needs frustration – Introjected Regulation | 1 | 3 | 258 | 86 | -.067 | -0.19 | 0.06 | 0.00 | 0.00 | 0.171533 |
| Total needs frustration – External Regulation | 1 | 3 | 258 | 86 | -.129 | -0.25 | -0.01 | 0.00 | 0.00 | 1.0126 |
| Total needs frustration – Amotivation | 3 | 5 | 1503 | 128 | .319 | 0.01 | 0.57 | 0.00 | 0.94 | 77.74608 |
| Total needs frustration – Autonomous motivation | 3 | 8 | 1761 | 108 | -.132 | -0.37 | 0.12 | 0.00 | 0.89 | 83.35051 |
| Total needs frustration – Controlled motivation | 3 | 8 | 1761 | 108 | .077 | -0.04 | 0.20 | 0.00 | 0.69 | 26.79871 |
| Total needs frustration – Self-determination Index | 3 | 24 | 5283 | 108 | -.100 | NA | NA | 0.97 | 0.00 | 420.3911 |
| *Total needs frustration and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Total needs frustration – Affective outcomes | 3 | 15 | 5622 | 175 | .484 | 0.43 | 0.54 | 0.87 | 0.00 | 133.2277 |
| Total needs frustration – Behavioral outcomes | 4 | 5 | 2758 | 459 | .469 | 0.27 | 0.63 | 0.40 | 0.56 | 132.0665 |
| Total needs frustration – Cognitive outcomes | 1 | 3 | 258 | 86 | .411 | 0.25 | 0.55 | 0.56 | 0.00 | 6.778333 |
| Total needs frustration – In PE outcomes | 6 | 23 | 8638 | 175 | .481 | 0.42 | 0.54 | 0.91 | 0.00 | 273.5089 |
| Total needs frustration – Out of PE outcomes | 0 | 0 | - | - | - | - | - | - | - | - |
| Total needs frustration – Adaptive outcomes | 4 | 12 | 4105 | 148 | -.371 | -0.53 | -0.18 | 0.85 | 0.12 | 465.0063 |
| Total needs frustration – Maladaptive outcomes | 5 | 11 | 4533 | 218 | .531 | 0.42 | 0.63 | 0.61 | 0.33 | 170.7178 |
| Total needs frustration – Outcomes (overall) | 6 | 23 | 8638 | 175 | .481 | 0.42 | 0.54 | 0.91 | 0.00 | 273.5089 |
| *Intrinsic motivation and motivation* |  |  |  |  |  |  |  |  |  |  |
| Intrinsic Motivation – Integrated Regulation | 4 | 4 | 2019 | 239 | .882 | 0.66 | 0.96 | 0.46 | 0.46 | 1017.219 |
| Intrinsic Motivation – Identified Regulation | 65 | 92 | 37946 | 232 | .883 | 0.85 | 0.91 | 0.41 | 0.51 | 11366.15 |
| Intrinsic Motivation – Introjected Regulation | 57 | 80 | 31742 | 232 | .479 | 0.36 | 0.58 | 0.38 | 0.53 | 11886.43 |
| Intrinsic Motivation – External Regulation | 69 | 96 | 41349 | 236 | -.078 | -0.19 | 0.04 | 0.12 | 0.70 | 14732.91 |
| Intrinsic Motivation – Amotivation | 57 | 95 | 42268 | 254 | -.474 | -0.56 | -0.38 | 0.16 | 0.68 | 5130.822 |
| Intrinsic Motivation – Autonomous motivation | 49 | 103 | 43358 | 272 | .885 | 0.85 | 0.91 | 0.53 | 0.39 | 13429.76 |
| Intrinsic Motivation – Controlled motivation | 51 | 131 | 55404 | 253 | .299 | 0.16 | 0.42 | 0.57 | 0.33 | 27591.48 |
| *Intrinsic motivation and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Intrinsic Motivation – Affective outcomes | 54 | 112 | 58885 | 271 | .429 | 0.32 | 0.52 | 0.94 | 0.05 | 21708.38 |
| Intrinsic Motivation – Behavioral outcomes | 52 | 84 | 30667 | 204 | .480 | 0.38 | 0.58 | 0.26 | 0.73 | 7555.852 |
| Intrinsic Motivation – Cognitive outcomes | 31 | 79 | 43415 | 384 | .490 | 0.42 | 0.56 | 0.71 | 0.27 | 4519.694 |
| Intrinsic Motivation – In PE outcomes | 69 | 173 | 83679 | 253 | .472 | 0.39 | 0.54 | 0.89 | 0.11 | 29654.8 |
| Intrinsic Motivation – Out of PE outcomes | 31 | 88 | 42885 | 284 | .416 | 0.35 | 0.48 | 0.74 | 0.24 | 3490.895 |
| Intrinsic Motivation – Adaptive outcomes | 84 | 229 | 111861 | 275 | .571 | 0.52 | 0.62 | 0.46 | 0.53 | 17111.82 |
| Intrinsic Motivation – Enjoyment | 22 | 27 | 11838 | 252 | .774 | 0.70 | 0.83 | 0.12 | 0.87 | 1974.567 |
| Intrinsic Motivation – Intentions | 19 | 28 | 16015 | 308 | .550 | 0.48 | 0.61 | 0.09 | 0.86 | 406.508 |
| Intrinsic Motivation – Leisure-time physical activity | 18 | 24 | 9541 | 200 | .356 | 0.31 | 0.40 | 0.84 | 0.00 | 120.2721 |
| Intrinsic Motivation – Maladaptive outcomes | 31 | 46 | 21106 | 233 | -.255 | -0.38 | -0.12 | 0.60 | 0.39 | 3073.88 |
| Intrinsic Motivation – Boredom | 9 | 9 | 5858 | 204 | -.426 | -.069 | -0.07 | 0.50 | 0.50 | 810.1588 |
| Intrinsic Motivation – Negative affect | 3 | 3 | 787 | 189 | -.434 | -0.66 | -0.14 | 0.47 | 0.47 | 40.06195 |
| Intrinsic Motivation – Pressure | 2 | 2 | 892 | 438 | -.185 | -0.41 | 0.06 | 0.46 | 0.46 | 26.61928 |
| Intrinsic Motivation – Outcomes (overall) | 86 | 275 | 132967 | 267 | .542 | 0.49 | 0.59 | 0.54 | 0.45 | 20764.74 |
| *Integrated regulation and motivation* |  |  |  |  |  |  |  |  |  |  |
| Integrated Regulation – Identified Regulation | 4 | 4 | 2019 | 239 | .840 | 0.69 | 0.92 | 0.46 | 0.46 | 283.9688 |
| Integrated Regulation – Introjected Regulation | 4 | 4 | 2019 | 239 | .651 | 0.36 | 0.83 | 0.46 | 0.46 | 141.6663 |
| Integrated Regulation – External Regulation | 4 | 4 | 2019 | 239 | .188 | -0.28 | 0.58 | 0.46 | 0.46 | 422.3235 |
| Integrated Regulation – Amotivation | 4 | 4 | 2019 | 239 | -.022 | -0.46 | 0.43 | 0.46 | 0.46 | 409.1117 |
| Integrated Regulation – Autonomous motivation | 4 | 4 | 2019 | 239 | .840 | 0.69 | 0.92 | 0.46 | 0.46 | 283.9688 |
| Integrated Regulation – Controlled motivation | 4 | 8 | 4038 | 239 | .448 | 0.11 | 0.69 | 0.76 | 0.00 | 1387.851 |
| *Integrated regulation and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Integrated Regulation – Affective outcomes | 2 | 3 | 938 | 166 | -.247 | -0.18 | 0.13 | 0.99 | 0.00 | 234.1365 |
| Integrated Regulation – Behavioral outcomes | 1 | 1 | 698 | 698 | .590 | - | - | - | - | - |
| Integrated Regulation – Cognitive outcomes | 1 | 2 | 1396 | 698 | .474 | 0.43 | 0.51 | 0.00 | 0.00 | 0.31275 |
| Integrated Regulation – In PE outcomes | 1 | 2 | 240 | 120 | -.544 | -0.12 | -0.06 | 0.95 | 0.00 | 37.44 |
| Integrated Regulation – Out of PE outcomes | 1 | 4 | 2792 | 698 | .476 | 0.34 | 0.49 | 0.44 | 0.00 | 7.141125 |
| Integrated Regulation – Adaptive outcomes | 1 | 4 | 2792 | 698 | .476 | 0.44 | 0.51 | 0.44 | 0.00 | 7.141125 |
| Integrated Regulation – Enjoyment | 0 | 0 | - | - | - | - | - | - | - | - |
| Integrated Regulation – Intentions | 1 | 1 | 698 | 698 | - | - | - | - | - | - |
| Integrated Regulation – Leisure-time physical activity | 0 | 0 | - | - | - | - | - | - | - | - |
| Integrated Regulation – Maladaptive outcomes | 1 | 2 | 240 | 120 | -.544 | -0.82 | -0.06 | 0.95 | 0.00 | 37.44 |
| Integrated Regulation – Boredom | 0 | 0 | - | - | - | - | - | - | - | - |
| Integrated Regulation – Negative affect | 0 | 0 | - | - | - | - | - | - | - | - |
| Integrated Regulation – Pressure | 0 | 0 | - | - | - | - | - | - | - | - |
| Integrated Regulation – Outcomes (overall) | 2 | 6 | 3032 | 268 | .497 | 0.36 | 0.61 | 0.95 | 0.00 | 46.42784 |
| *Identified regulation and motivation* |  |  |  |  |  |  |  |  |  |  |
| Identified Regulation – Introjected Regulation | 57 | 66 | 26114 | 219 | .621 | 0.50 | 0.72 | 0.06 | 0.73 | 14300.94 |
| Identified Regulation – External Regulation | 64 | 76 | 31058 | 215 | -.022 | -0.15 | 0.11 | 0.18 | 0.67 | 8632.913 |
| Identified Regulation – Amotivation | 52 | 75 | 31120 | 234 | -.383 | -0.50 | -0.25 | 0.09 | 0.72 | 8843.167 |
| Identified Regulation – Autonomous motivation | 22 | 26 | 9675 | 191 | .854 | 0.79 | 0.90 | 0.18 | 0.67 | 2702.405 |
| Identified Regulation – Controlled motivation | 45 | 94 | 38650 | 230 | .670 | 0.26 | 0.52 | 0.73 | 0.07 | 26777.84 |
| *Identified regulation and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Identified Regulation – Affective outcomes | 38 | 69 | 31074 | 237 | .352 | 0.21 | 0.45 | 0.99 | 0.00 | 8510.556 |
| Identified Regulation – Behavioral outcomes | 40 | 60 | 21550 | 198 | .403 | 0.31 | 0.53 | 0.33 | 0.66 | 3050.027 |
| Identified Regulation – Cognitive outcomes | 24 | 52 | 24852 | 316 | .522 | 0.39 | 0.63 | 0.67 | 0.32 | 5114.727 |
| Identified Regulation – In PE outcomes | 47 | 108 | 45333 | 227 | .420 | 0.32 | 0.51 | 0.99 | 0.01 | 14352.04 |
| Identified Regulation – Out of PE outcomes | 22 | 60 | 26292 | 242 | .382 | 0.30 | 0.46 | 0.92 | 0.05 | 2483.569 |
| Identified Regulation – Adaptive outcomes | 60 | 147 | 64175 | 245 | .525 | 0.47 | 0.59 | 0.55 | 0.44 | 9512.899 |
| Identified Regulation – Enjoyment | 16 | 16 | 5019 | 193 | .653 | 0.56 | 0.73 | 0.48 | 0.48 | 412.91 |
| Identified Regulation – Intentions | 13 | 14 | 6198 | 203 | .570 | 0.51 | 0.63 | 0.00 | 0.91 | 118.1467 |
| Identified Regulation – Leisure-time physical activity | 14 | 19 | 7338 | 182 | .336 | 0.27 | 0.40 | 0.89 | 0.00 | 126.3854 |
| Identified Regulation – Maladaptive outcomes | 25 | 34 | 13301 | 215 | -.233 | -0.36 | -0.11 | 0.50 | 0.48 | 1801.857 |
| Identified Regulation – Boredom | 7 | 7 | 2164 | 163 | -.566 | -0.69 | -0.42 | 0.47 | 0.47 | 176.0817 |
| Identified Regulation – Negative affect | 2 | 2 | 402 | 150 | -.461 | -0.60 | -0.30 | 0.31 | 0.31 | 5.339189 |
| Identified Regulation – Pressure | 1 | 1 | 507 | 507 | - | - | - | - | - | - |
| Identified Regulation – Outcomes (overall) | 61 | 180 | 77476 | 238 | .501 | 0.45 | 0.55 | 0.58 | 0.40 | 9667.51 |
| *Introjected regulation and motivation*  |  |  |  |  |  |  |  |  |  |  |
| Introjected Regulation – External Regulation | 56 | 66 | 26196 | 228 | .560 | 0.48 | 0.63 | 0.84 | 0.14 | 3777.35 |
| Introjected Regulation – Amotivation | 44 | 65 | 26437 | 255 | .053 | -0.03 | 0.14 | 0.40 | 0.58 | 1817.888 |
| Introjected Regulation – Autonomous motivation | 58 | 152 | 60837 | 234 | .564 | 0.47 | 0.65 | 0.31 | 0.68 | 26889.27 |
| Introjected Regulation – Controlled motivation | 37 | 44 | 17200 | 229 | .576 | 0.47 | 0.68 | 0.68 | 0.16 | 3204.795 |
| *Introjected regulation and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Introjected Regulation – Affective outcomes | 34 | 61 | 23019 | 226 | .220 | 0.15 | 0.29 | 0.97 | 0.00 | 1714.272 |
| Introjected Regulation – Behavioral outcomes | 34 | 48 | 17693 | 221 | .214 | 0.14 | 0.27 | 0.58 | 0.36 | 837.2092 |
| Introjected Regulation – Cognitive outcomes | 22 | 47 | 21089 | 307 | .275 | 0.20 | 0.34 | 0.97 | 0.00 | 1387.55 |
| Introjected Regulation – In PE outcomes | 39 | 92 | 35551 | 227 | .238 | 0.18 | 0.29 | 0.97 | 0.00 | 2531.136 |
| Introjected Regulation – Out of PE outcomes | 18 | 54 | 21181 | 252 | .253 | 0.18 | 0.33 | 0.87 | 0.09 | 1375.673 |
| Introjected Regulation – Adaptive outcomes | 51 | 125 | 49964 | 253 | .256 | 0.18 | 0.31 | 0.37 | 0.59 | 2966.77 |
| Introjected Regulation – Enjoyment  | 15 | 15 | 4624 | 193 | .350 | 0.18 | 0.50 | 0.49 | 0.49 | 477.1424 |
| Introjected Regulation – Intentions  | 12 | 13 | 3861 | 186 | .302 | 0.16 | 0.43 | 0.33 | 0.62 | 221.3374 |
| Introjected Regulation – Leisure-time physical activity | 10 | 15 | 4698 | 194 | .209 | 0.08 | 0.33 | 0.06 | 0.86 | 179.2521 |
| Introjected Regulation – Maladaptive outcomes | 22 | 31 | 11837 | 212 | .129 | 0.01 | 0.24 | 0.69 | 0.28 | 1033.303 |
| Introjected Regulation – Boredom | 7 | 7 | 2164 | 163 | .002 | -0.18 | 0.22 | 0.48 | 0.48 | 161.4044 |
| Introjected Regulation – Negative affect | 2 | 2 | 402 | 150 | -.107 | -0.45 | 0.26 | 0.45 | 0.45 | 21.35675 |
| Introjected Regulation – Pressure  | 1 | 1 | 507 | 507 | - | - | - | - | - | - |
| Introjected Regulation – Outcomes (overall) | 52 | 156 | 61801 | 243 | .291 | 0.26 | 0.33 | 0.77 | 0.16 | 2318.506 |
| *External regulation and motivation* |  |  |  |  |  |  |  |  |  |  |
| External Regulation – Amotivation | 52 | 81 | 35238 | 250 | .576 | 0.50 | 0.65 | 0.23 | 0.76 | 5116.771 |
| External Regulation – Autonomous motivation | 69 | 177 | 75060 | 235 | -.025 | -0.14 | 0.09 | 0.15 | 0.85 | 23818.91 |
| External Regulation – Controlled motivation | 21 | 24 | 9184 | 194 | .522 | 0.41 | 0.62 | 0.75 | 0.00 | 581.1321 |
| *External regulation and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| External Regulation – Affective outcomes | 44 | 83 | 39522 | 258 | .040 | -0.04 | 0.13 | 0.88 | 0.11 | 6484.886 |
| External Regulation – Behavioral outcomes | 42 | 63 | 22760 | 201 | -.079 | -0.16 | -0.02 | 0.26 | 0.69 | 1172.345 |
| External Regulation – Cognitive outcomes | 23 | 50 | 24257 | 317 | -.054 | -0.17 | 0.06 | 0.54 | 0.39 | 2567.219 |
| External Regulation – In PE outcomes | 52 | 122 | 53737 | 241 | -.018 | -0.09 | 0.05 | 0.87 | 0.11 | 8473.384 |
| External Regulation – Out of PE outcomes | 24 | 63 | 27589 | 245 | -.028 | -0.12 | 0.07 | 0.59 | 0.38 | 1997.2 |
| External Regulation – Adaptive outcomes | 65 | 157 | 69410 | 251 | -.073 | -0.15 | 0.01 | 0.13 | 0.85 | 8237.723 |
| External Regulation – Enjoyment | 19 | 20 | 6980 | 217 | -.127 | -0.30 | 0.06 | 0.00 | 0.98 | 1245.393 |
| External Regulation – Intentions | 13 | 14 | 6198 | 203 | -.152 | -0.27 | -0.03 | 0.10 | 0.85 | 284.8654 |
| External Regulation – Leisure-time physical activity | 15 | 21 | 8250 | 190 | -.035 | -0.14 | 0.07 | 0.00 | 0.93 | 283.5236 |
| External Regulation – Maladaptive outcomes | 29 | 39 | 17129 | 231 | .251 | 0.17 | 0.33 | 0.62 | 0.34 | 1443.061 |
| External Regulation – Boredom | 9 | 9 | 4924 | 201 | .236 | -0.01 | 0.45 | 0.49 | 0.49 | 786.2404 |
| External Regulation – Negative affect | 3 | 3 | 787 | 189 | .294 | 0.06 | 0.50 | 0.45 | 0.45 | 35.63957 |
| External Regulation – Pressure | 2 | 2 | 892 | 438 | .264 | 0.18 | 0.35 | 0.23 | 0.23 | 3.672374 |
| External Regulation – Outcomes (overall) | 66 | 196 | 86539 | 247 | .269 | 0.24 | 0.31 | 0.49 | 0.45 | 3374.201 |
| *Amotivation and motivation* |  |  |  |  |  |  |  |  |  |  |
| Amotivation – Autonomous motivation | 62 | 179 | 77805 | 256 | -.434 | -0.52 | -0.34 | 0.29 | 0.70 | 14807.1 |
| Amotivation – Controlled motivation | 59 | 148 | 62203 | 242 | .367 | 0.30 | 0.43 | 0.76 | 0.00 | 11987.65 |
| *Amotivation and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Amotivation – Affective outcomes | 43 | 107 | 57361 | 296 | -.106 | -0.22 | 0.02 | 0.89 | 0.10 | 15704.09 |
| Amotivation – Behavioral outcomes | 40 | 72 | 30835 | 241 | -.272 | -0.37 | -0.17 | 0.76 | 0.22 | 5411.252 |
| Amotivation – Cognitive outcomes | 25 | 54 | 26277 | 298 | -.344 | -0.43 | -0.25 | 0.79 | 0.19 | 2754.312 |
| Amotivation – In PE outcomes | 58 | 188 | 91124 | 278 | -.201 | -0.28 | -0.11 | 0.87 | 0.12 | 23338.78 |
| Amotivation – Out of PE outcomes | 20 | 33 | 17703 | 244 | -.264 | -0.37 | -0.15 | 0.82 | 0.16 | 1449.627 |
| Amotivation – Adaptive outcomes | 63 | 187 | 91785 | 280 | -.369 | -0.42 | -0.31 | 0.62 | 0.36 | 7598.631 |
| Amotivation – Enjoyment | 14 | 14 | 5575 | 183 | -.519 | -0.63 | 0.38 | 0.49 | 0.49 | 622.9599 |
| Amotivation – Intentions | 14 | 18 | 10381 | 251 | -.425 | -0.52 | -0.31 | 0.41 | 0.57 | 661.2996 |
| Amotivation – Leisure-time physical activity | 10 | 10 | 4826 | 186 | -.279 | -0.35 | -0.21 | 0.41 | 0.41 | 39.61912 |
| Amotivation – Maladaptive outcomes | 30 | 46 | 22688 | 266 | .450 | 0.34 | 0.55 | 0.27 | 0.71 | 2211.101 |
| Amotivation – Boredom | 11 | 11 | 7374 | 236 | .630 | 0.52 | 0.72 | 0.49 | 0.49 | 609.5242 |
| Amotivation – Negative affect | 3 | 3 | 787 | 189 | .570 | 0.38 | 0.72 | 0.46 | 0.46 | 21.86706 |
| Amotivation – Pressure | 3 | 3 | 1195 | 381 | .406 | 0.29 | 0.51 | 0.40 | 0.40 | 15.30845 |
| Amotivation – Outcomes (overall) | 67 | 233 | 114473 | 277 | .400 | 0.35 | 0.44 | 0.56 | 0.42 | 8207.346 |
| Autonomous motivation – Controlled motivation | 83 | 345 | 140467 | 228 | .254 | 0.16 | 0.35 | 0.57 | 0.33 | 69505.48 |
| *Autonomous motivation and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Autonomous motivation – Affective outcomes | 70 | 220 | 102856 | 255 | .400 | 0.30 | 0.48 | 0.75 | 0.24 | 33913.89 |
| Autonomous motivation – Behavioral outcomes | 68 | 188 | 64361 | 204 | .438 | 0.35 | 0.53 | 0.18 | 0.80 | 14815.22 |
| Autonomous motivation – Cognitive outcomes | 44 | 166 | 79943 | 320 | .502 | 0.44 | 0.56 | 0.59 | 0.40 | 10202.63 |
| Autonomous motivation – In PE outcomes | 83 | 826 | 147716 | 246 | .440 | 0.36 | 0.51 | 0.77 | 0.22 | 51382.88 |
| Autonomous motivation – Out of PE outcomes | 43 | 215 | 85344 | 243 | .416 | 0.36 | 0.47 | 0.69 | 0.27 | 6805.421 |
| Autonomous motivation – Adaptive outcomes | 105 | 480 | 207584 | 254 | .540 | 0.50 | 0.58 | 0.44 | 0.54 | 31860.15 |
| Autonomous motivation – Enjoyment | 24 | 46 | 18083 | 232 | .733 | 0.66 | 0.79 | 0.38 | 0.60 | 2566.034 |
| Autonomous motivation – Intentions | 28 | 54 | 26636 | 259 | .511 | 0.45 | 0.57 | 0.03 | 0.93 | 779.6465 |
| Autonomous motivation – Leisure-time physical activity | 26 | 54 | 19538 | 197 | .337 | 0.29 | 0.39 | 0.27 | 0.61 | 327.7702 |
| Autonomous motivation – Maladaptive outcomes | 38 | 94 | 39576 | 229 | -.253 | -0.35 | -0.15 | 0.46 | 0.52 | 5162.495 |
| Autonomous motivation – Boredom | 10 | 17 | 8652 | 192 | -.494 | -0.65 | -0.29 | 0.80 | 0.19 | 1057.537 |
| Autonomous motivation – Negative affect | 3 | 5 | 1189 | 171 | -.410 | -0.61 | -0.16 | 0.00 | 0.92 | 48.73911 |
| Autonomous motivation – Pressure | 2 | 3 | 1399 | 459 | -.169 | -0.36 | 0.04 | 0.13 | 0.78 | 27.45168 |
| Autonomous motivation – Outcomes (overall) | 108 | 573 | 247160 | 249 | .513 | 0.47 | 0.55 | 0.50 | 0.48 | 35849.44 |
| *Controlled motivation and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Controlled motivation – Affective outcomes | 49 | 154 | 67122 | 250 | .116 | 0.06 | 0.17 | 0.98 | 0.00 | 9021.281 |
| Controlled motivation – Behavioral outcomes | 49 | 125 | 44831 | 210 | .045 | -0.01 | 0.09 | 0.96 | 0.00 | 2992.218 |
| Controlled motivation – Cognitive outcomes | 28 | 101 | 47530 | 316 | .111 | 0.03 | 0.19 | 0.86 | 0.12 | 5035.653 |
| Controlled motivation – In PE outcomes | 62 | 239 | 99503 | 240 | .088 | 0.04 | 0.13 | 0.94 | 0.04 | 12945.75 |
| Controlled motivation – Out of PE outcomes | 27 | 119 | 49421 | 249 | .100 | 0.03 | 0.17 | 0.86 | 0.11 | 4045.843 |
| Controlled motivation – Adaptive outcomes | 75 | 302 | 126476 | 252 | .064 | 0.00 | 0.12 | 0.66 | 0.32 | 14174.08 |
| Controlled motivation – Enjoyment | 20 | 36 | 12234 | 210 | .098 | 0.05 | 0.24 | 0.97 | 0.02 | 2323.391 |
| Controlled motivation – Intentions | 15 | 28 | 10689 | 199 | .072 | -0.04 | 0.18 | 0.97 | 0.00 | 1013.077 |
| Controlled motivation – Leisure-time physical activity | 17 | 38 | 13599 | 196 | .064 | -.0.01 | 0.14 | 0.94 | 0.00 | 574.8757 |
| Controlled motivation – Maladaptive outcomes | 35 | 78 | 33007 | 234 | .198 | 0.13 | 0.27 | 0.75 | 0.22 | 2740.874 |
| Controlled motivation – Boredom | 10 | 17 | 7718 | 190 | .130 | -0.05 | 0.30 | 0.98 | 0.00 | 958.1592 |
| Controlled motivation – Negative affect | 3 | 5 | 1189 | 171 | .136 | -0.13 | 0.39 | 0.95 | 0.00 | 80.83133 |
| Controlled motivation – Pressure | 2 | 3 | 1399 | 459 | .248 | 0.20 | 0.30 | 0.35 | 0.00 | 4.60743 |
| Controlled motivation – Outcomes (overall) | 77 | 380 | 159483 | 248 | .272 | 0.25 | 0.30 | 0.78 | 0.15 | 6027.292 |
| *Self-determination Index and student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Self-determination Index – Affective outcomes | 88 | 527 | 245454 | 261 | .481 | 0.44 | 0.52 | 0.75 | 0.24 | 30046.44 |
| Self-determination Index – Behavioral outcomes | 93 | 469 | 168998 | 206 | .390 | 0.34 | 0.44 | 0.42 | 0.55 | 20000.56 |
| Self-determination Index – Cognitive outcomes | 55 | 350 | 166640 | 295 | .431 | 0.39 | 0.47 | 0.71 | 0.26 | 14320.47 |
| Self-determination Index – In PE outcomes | 107 | 828 | 360971 | 245 | .469 | 0.43 | 0.50 | 0.68 | 0.30 | 49706.11 |
| Self-determination Index – Out of PE outcomes | 54 | 435 | 183276 | 231 | .376 | 0.33 | 0.42 | 0.67 | 0.29 | 11601.55 |
| Self-determination Index – Adaptive outcomes | 139 | 1120 | 482168 | 247 | .444 | 0.41 | 0.47 | 0.68 | 0.30 | 57605.89 |
| Self-determination Index – Enjoyment | 31 | 108 | 39984 | 220 | .771 | 0.70 | 0.83 | 0.99 | 0.00 | 29320.68 |
| Self-determination Index – Intentions | 15 | 28 | 10689 | 199 | .271 | 0.21 | 0.34 | 0.92 | 0.00 | 333.9236 |
| Self-determination Index – Leisure-time physical activity | 17 | 38 | 13599 | 196 | .185 | 0.14 | 0.23 | 0.85 | 0.00 | 224.612 |
| Self-determination Index – Maladaptive outcomes | 45 | 226 | 98924 | 238 | .369 | 0.31 | 0.42 | 0.65 | 0.32 | 7113.6 |
| Self-determination Index – Boredom | 10 | 17 | 7718 | 190 | .315 | 0.24 | 0.39 | 0.79 | 0.13 | 171.5209 |
| Self-determination Index – Negative affect | 3 | 5 | 1189 | 171 | .279 | 0.13 | 0.42 | 0.87 | 0.00 | 43.0516 |
| Self-determination Index – Pressure | 2 | 3 | 1399 | 459 | .248 | 0.20 | 0.30 | 0.35 | 0.00 | 4.60743 |
| Self-determination Index – Outcomes (overall) | 142 | 1346 | 581092 | 245 | .431 | 0.40 | 0.46 | 0.68 | 0.30 | 65455.3 |
| *Between student outcomes* |  |  |  |  |  |  |  |  |  |  |
| Adaptive outcomes – Maladaptive outcomes | 53 | 231 | 109262 | 302 | -.212 | -0.33 | -0.09 | 0.43 | 0.56 | 22247.34 |