*Moderation Analysis on Each Association Included in the Model.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | k | #ES | Sample size | | Coefficient  (r) | Lower  95% CI | Upper  95% CI | R2\_2 | R2\_3 | I2\_2 | I2\_3 | Q statistic |
| Total | Harmonic Mean |
| Teacher’s autonomy support – Teacher’s competence support | 12 | 13 | 6313 | 313 | .757 | 0.62 | 0.85 |  |  | 0.75 | 0.03 | 1181.203 |
| Culture |  |  |  |  |  |  |  | 0.02 | 0.00 |  |  |  |
| Individualistic | 9 | 10 | 4185 | 319 | .762 | 0.60 | 0.86 |  |  | 0.95 | 0.04 |  |
| Collectivistic | 3 | 3 | 2128 | 296 | .742 | 0.38 | 0.91 |  |  | 0.49 | 0.49 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 1.00 |  |  |  |
| UK | 3 | 3 | 892 | 254 | .741 | 0.39 | 0.91 |  |  | 0.49 | 0.49 |  |
| USA | 5 | 6 | 2644 | 334 | .729 | 0.50 | 0.86 |  |  | 0.99 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.14 | 1.00 |  |  |  |
| Both | 11 | 12 | 6151 | 340 | .732 | 0.58 | 0.83 |  |  | 0.99 | 0.00 |  |
| Male | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 1.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 8 | 8 | 4276 | 301 | .856 | 0.78 | 0.90 |  |  | 0.49 | 0.49 |  |
| Adolescents | 4 | 5 | 2037 | 336 | .478 | 0.24 | 0.62 |  |  | 0.97 | 0.00 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 12 | 13 | 6313 | 313 | .757 | 0.62 | 0.85 |  |  | 0.75 | 0.03 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s autonomy support – Teacher’s relatedness support | 14 | 14 | 10487 | 327 | .817 | 0.69 | 0.90 |  |  | 0.46 | 0.46 | 2362.787 |
| Culture |  |  |  |  |  |  |  | 0.03 | 0.03 |  |  |  |
| Individualistic | 11 | 11 | 8358 | 336 | 0.832 | 0.67 | 0.92 |  |  | 0.50 | 0.50 |  |
| Collectivistic | 3 | 3 | 2129 | 296 | 0.757 | 0.70 | 0.80 |  |  | 0.35 | 0.35 |  |
| Country |  |  |  |  |  |  |  | 0.17 | 0.17 |  |  |  |
| UK | 3 | 3 | 892 | 254 | .819 | 0.52 | 0.94 |  |  | 0.49 | 0.49 |  |
| USA | 4 | 4 | 1512 | 277 | .906 | 0.67 | 0.98 |  |  | 0.50 | 0.50 |  |
| Sex |  |  |  |  |  |  |  | 0.10 | 0.10 |  |  |  |
| Both | 13 | 13 | 10325 | 354 | 0.799 | 0.66 | 0.87 |  |  | 0.50 | 0.50 |  |
| Male | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.20 | 0.20 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 10 | 10 | 5185 | 320 | .863 | 0.74 | 0.93 |  |  | 0.50 | 0.50 |  |
| Adolescents | 4 | 4 | 5302 | 345 | .631 | 0.48 | 0.75 |  |  | 0.48 | 0.48 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 14 | 14 | 10487 | 327 | .817 | 0.69 | 0.90 |  |  | 0.46 | 0.46 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s autonomy support– Autonomy | 29 | 34 | 15919 | 227 | .704 | 0.61 | 0.78 |  |  | 0.09 | 0.90 | 2458.197 |
| Culture |  |  |  |  |  |  |  | 0.01 | 0.00 |  |  |  |
| Individualistic | 17 | 18 | 6994 | 193 | .704 | 0.54 | 0..82 |  |  | 0.09 | 0.91 |  |
| Collectivistic | 11 | 15 | 8210 | 274 | .702 | 0.60 | 0.78 |  |  | 0.21 | 0.77 |  |
| Country |  |  |  |  |  |  |  | 0.01 | 0.00 |  |  |  |
| UK | 2 | 2 | - | - | - | - | - |  |  | - | - |  |
| USA | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.01 | 0.03 |  |  |  |
| Both | 28 | 33 | 15868 | 254 | .711 | 0.61 | 0.78 |  |  | 0.09 | 0.90 |  |
| Male | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.20 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 16 | 19 | 9263 | 286 | .697 | 0.61 | 0.77 |  |  | 0.18 | 0.80 |  |
| Adolescents | 15 | 15 | 6656 | 180 | .715 | 0.54 | 0.83 |  |  | 0.50 | 0.50 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 29 | 34 | 15919 | 227 | .704 | 0.61 | 0.78 |  |  | 0.09 | 0.90 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s autonomy support – Competence | 30 | 35 | 15897 | 227 | .458 | 0.38 | 0.53 |  |  | 0.00 | 0.96 | 695.8443 |
| Culture |  |  |  |  |  |  |  | 0.38 | 0.05 |  |  |  |
| Individualistic | 19 | 20 | 7218 | 196 | .419 | 0.31 | 0.52 |  |  | 0.04 | 0.93 |  |
| Collectivistic | 10 | 14 | 7964 | 276 | .511 | 0.43 | 0.59 |  |  | 0.00 | 0.94 |  |
| Country |  |  |  |  |  |  |  | 0.07 | 0.03 |  |  |  |
| UK | 7 | 7 | 2782 | 205 | .400 | 0.36 | 0.40 |  |  | 0.11 | 0.11 |  |
| USA | 2 | 2 | 1070 | 92 | .317 | -0.29 | 0.74 |  |  | 0.47 | 0.47 |  |
| Sex |  |  |  |  |  |  |  | 0.38 | 0.00 |  |  |  |
| Both | 29 | 34 | 15846 | 253 | .452 | 0.38 | 0.52 |  |  | 0.00 | 0.97 |  |
| Male | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.32 | 0.04 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 17 | 20 | 9691 | 291 | .413 | 0.32 | 0.50 |  |  | 0.00 | 0.95 |  |
| Adolescents | 15 | 15 | 6206 | 176 | .507 | 0.40 | 0.60 |  |  | 0.48 | 0.48 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.38 | 0.00 |  |  |  |
| Low Risk of Bias | 30 | 35 | 15897 | 227 | .458 | 0.38 | 0.53 |  |  | 0.00 | 0.96 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s autonomy support – Relatedness | 27 | 32 | 15524 | 256 | .533 | 0.46 | 0.60 |  |  | 0.01 | 0.97 | 1011.23 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.09 |  |  |  |
| Individualistic | 16 | 17 | 6845 | 233 | .529 | 0.43 | 0.62 |  |  | 0.01 | 0.95 |  |
| Collectivistic | 10 | 14 | 7964 | 276 | .511 | 0.38 | 0.63 |  |  | 0.01 | 0.97 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.04 |  |  |  |
| UK | 5 | 5 | 2431 | 446 | .606 | 0.54 | 0.67 |  |  | 0.43 | 0.43 |  |
| USA | 3 | 3 | 1323 | 116 | .527 | 0.39 | 0.64 |  |  | 0.40 | 0.40 |  |
| Sex |  |  |  |  |  |  |  | 0.01 | 0.00 |  |  |  |
| Both | 27 | 32 | 15524 | 256 | .533 | 0.46 | 0.60 |  |  | 0.01 | 0.97 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.03 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 17 | 20 | 9840 | 294 | .507 | 0.41 | 0.60 |  |  | 0.02 | 0.95 |  |
| Adolescents | 12 | 12 | 5684 | 210 | .554 | 0.44 | 0.65 |  |  | 0.49 | 0.49 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 27 | 32 | 15524 | 256 | .533 | 0.46 | 0.60 |  |  | 0.01 | 0.97 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s autonomy support – Autonomous Motivation | 37 | 68 | 28697 | 242 | .501 | 0.45 | 0.55 |  |  | 0.16 | 0.78 | 1194.218 |
| Culture |  |  |  |  |  |  |  | 0.01 | 0.01 |  |  |  |
| Individualistic | 21 | 37 | 15595 | 312 | .525 | 0.47 | 0.58 |  |  | 0.07 | 0.85 |  |
| Collectivistic | 16 | 31 | 13102 | 191 | .480 | 0.39 | 0.56 |  |  | 0.21 | 0.74 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.02 |  |  |  |
| UK | 6 | 13 | 5392 | 327 | .509 | 0.44 | 0.57 |  |  | 0.33 | 0.51 |  |
| USA | 4 | 6 | 3773 | 455 | .467 | 0.27 | 0.63 |  |  | 0.02 | 0.95 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 36 | 66 | 26477 | 234 | .506 | 0.46 | 0.55 |  |  | 0.16 | 0.78 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 1 | 2 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.11 | 0.03 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 24 | 45 | 20464 | 231 | .485 | 0.42 | 0.55 |  |  | 0.09 | 0.86 |  |
| Adolescents | 16 | 23 | 8233 | 268 | .554 | 0.51 | 0.60 |  |  | 0.29 | 0.57 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 37 | 68 | 28697 | 242 | .501 | 0.45 | 0.55 |  |  | 0.16 | 0.78 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s autonomy support – Introjected Regulation | 17 | 21 | 8336 | 231 | .199 | 0.12 | 0.28 |  |  | 0.15 | 0.77 | 192.1669 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.07 |  |  |  |
| Individualistic | 10 | 10 | 4504 | 398 | .233 | 0.11 | 0.35 |  |  | 0.47 | 0.47 |  |
| Collectivistic | 7 | 11 | 3832 | 167 | .169 | 0.11 | 0.23 |  |  | 0.76 | 0.00 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.12 |  |  |  |
| UK | 5 | 5 | 2431 | 446 | .278 | 0.18 | 0.38 |  |  | 0.43 | 0.43 |  |
| USA | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 17 | 21 | 8336 | 231 | .199 | 0.12 | 0.28 |  |  | 0.15 | 0.77 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 1.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 13 | 15 | 5821 | 198 | .184 | 0.07 | 0.29 |  |  | 0.00 | 0.94 |  |
| Adolescents | 6 | 6 | 2515 | 391 | .249 | 0.21 | 0.29 |  |  | 0.09 | 0.09 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 17 | 21 | 8336 | 231 | .199 | 0.12 | 0.28 |  |  | 0.15 | 0.77 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s autonomy support – External Regulation | 18 | 22 | 9625 | 242 | -.109 | -0.22 | 0.00 |  |  | 0.40 | 0.56 | 825.4535 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| Individualistic | 11 | 11 | 5793 | 441 | -.107 | -0.26 | 0.05 |  |  | 0.49 | 0.49 |  |
| Collectivistic | 7 | 11 | 3832 | 167 | -.177 | -0.25 | 0.22 |  |  | 0.11 | 0.88 |  |
| Country |  |  |  |  |  |  |  | 0.14 | 0.60 |  |  |  |
| UK | 4 | 4 | 2103 | 490 | -.317 | -0.41 | -0.22 |  |  | 0.42 | 0.42 |  |
| USA | 2 | 2 | 1617 | 696 | .223 | -0.22 | 0.59 |  |  | 0.49 | 0.49 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 1.00 |  |  |  |
| Both | 17 | 21 | 8515 | 234 | -.173 | -0.28 | -0.06 |  |  | 0.91 | 0.01 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.62 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 14 | 16 | 7110 | 212 | -.085 | -0.22 | 0.05 |  |  | 0.19 | 0.78 |  |
| Adolescents | 6 | 6 | 2515 | 391 | -.229 | -0.35 | -0.10 |  |  | 0.45 | 0.45 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 18 | 22 | 9625 | 242 | -.109 | -0.22 | 0.00 |  |  | 0.40 | 0.56 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s autonomy support – Amotivation | 26 | 60 | 25164 | 266 | -.247 | -0.32 | -0.18 |  |  | 0.27 | 0.67 | 1085.847 |
| Culture |  |  |  |  |  |  |  | 0.06 | 0.12 |  |  |  |
| Individualistic | 16 | 30 | 10929 | 255 | -.308 | -0.38 | -0.23 |  |  | 0.33 | 0.59 |  |
| Collectivistic | 10 | 30 | 14235 | 279 | -.144 | -0.27 | -0.01 |  |  | 0.24 | 0.72 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.09 |  |  |  |
| UK | 6 | 10 | 3241 | 238 | -.318 | -0.41 | -0.22 |  |  | 0.89 | 0.00 |  |
| USA | 4 | 14 | 5217 | 241 | -.662 | -0.24 | -0.12 |  |  | 0.79 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.18 | 0.00 |  |  |  |
| Both | 23 | 46 | 21908 | 316 | -.245 | -0.33 | -0.16 |  |  | 0.22 | 0.73 |  |
| Male | 2 | 9 | 1518 | 168 | -.190 | -0.635 | -0.02 |  |  | 0.23 | 0.53 |  |
| Female | 2 | 5 | 1738 | 190 | -.300 | NA | NA |  |  | 0.57 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.02 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 18 | 36 | 16030 | 257 | -.242 | -0.33 | -0.15 |  |  | 0.28 | 0.67 |  |
| Adolescents | 10 | 24 | 9134 | 282 | -.274 | -0.37 | -0.17 |  |  | 0.27 | 0.65 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 26 | 60 | 25164 | 266 | -.247 | -0.32 | -0.18 |  |  | 0.27 | 0.67 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s autonomy support – Adaptive Outcomes | 56 | 241 | 87478 | 201 | .374 | 0.32 | 0.44 |  |  | 0.42 | 0.55 | 8205.038 |
| Culture |  |  |  |  |  |  |  | 0.01 | 0.02 |  |  |  |
| Individualistic | 36 | 166 | 55080 | 231 | .312 | 0.27 | 0.36 |  |  | 0.83 | 0.12 |  |
| Collectivistic | 19 | 71 | 30724 | 153 | .478 | 0.34 | 0.59 |  |  | 0.14 | 0.85 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 9 | 87 | 23918 | 188 | .232 | 0.20 | 0.26 |  |  | 0.75 | 0.01 |  |
| USA | 9 | 24 | 9609 | 304 | .326 | 0.21 | 0.43 |  |  | 0.80 | 0.16 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Both | 51 | 229 | 85420 | 208 | .372 | 0.31 | 0.43 |  |  | 0.46 | 0.51 |  |
| Male | 4 | 7 | 1073 | 99 | .491 | 0.07 | 0.71 |  |  | 0.28 | 0.70 |  |
| Female | 3 | 5 | 985 | 169 | .413 | 0.08 | 0.66 |  |  | 0.97 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 33 | 133 | 48476 | 190 | .391 | 0.31 | 0.47 |  |  | 0.22 | 0.75 |  |
| Adolescents | 28 | 108 | 39002 | 516 | .378 | 0.29 | 0.46 |  |  | 0.62 | 0.36 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.01 | 0.21 |  |  |  |
| Low Risk of Bias | 55 | 239 | 87268 | 202 | .368 | 0.31 | 0.42 |  |  | 0.49 | 0.48 |  |
| High Risk of Bias | 1 | 2 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s autonomy support – Maladaptive Outcomes | 13 | 21 | 7470 | 136 | -.250 | -0.36 | -0.14 |  |  | 0.04 | 0.90 | 109.8943 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Individualistic | 9 | 14 | 4899 | 272 | -.254 | -0.41 | -0.08 |  |  | 0.03 | 0.93 |  |
| Collectivistic | 4 | 7 | 2571 | 68 | -.266 | -0.34 | -0.19 |  |  | 0.49 | 0.00 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 2 | 4 | 1910 | 476 | -.218 | -0.27 | -0.16 |  |  | 0.46 | 0.00 |  |
| USA | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 13 | 21 | 7470 | 136 | -.250 | -0.36 | -0.14 |  |  | 0.04 | 0.90 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.02 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 7 | 14 | 5305 | 115 | -.208 | -0.27 | -0.15 |  |  | 0.39 | 0.22 |  |
| Adolescents | 6 | 7 | 2165 | 215 | -.309 | -0.53 | -0.05 |  |  | 0.01 | 0.96 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 13 | 21 | 7470 | 136 | -.250 | -0.36 | -0.14 |  |  | 0.04 | 0.90 |  |
| High Risk of Bias | - | - | - | - | - | - | - |  |  | - | - |  |
| Teacher’s competence support – Teacher’s relatedness support | 12 | 12 | 5749 | 302 | .792 | 0.67 | 0.87 |  |  | 0.46 | 0.46 | 1499.346 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 9 | 9 | 3619 | 304 | .788 | 0.63 | 0.89 |  |  | 0.50 | 0.50 |  |
| Collectivistic | 3 | 3 | 2130 | 297 | .804 | 0.60 | 0.91 |  |  | 0.49 | 0.49 |  |
| Country |  |  |  |  |  |  |  | 0.16 | 0.16 |  |  |  |
| UK | 3 | 3 | 892 | 254 | .644 | 0.43 | 0.79 |  |  | 0.48 | 0.48 |  |
| USA | 5 | 5 | 2078 | 308 | .805 | 0.57 | 0.92 |  |  | 0.50 | 0.50 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 11 | 11 | 5587 | 328 | .792 | 0.65 | 0.88 |  |  | 0.50 | 0.50 |  |
| Male | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 8 | 8 | 4278 | 301 | .877 | 0.83 | 0.91 |  |  | 0.48 | 0.48 |  |
| Adolescents | 4 | 4 | 1471 | 305 | .471 | 0.26 | 0.64 |  |  | 0.48 | 0.48 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 12 | 12 | 5749 | 302 | .792 | 0.67 | 0.87 |  |  | 0.46 | 0.46 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s competence support– Autonomy | 7 | 7 | 4391 | 422 | .601 | 0.49 | 0.69 |  |  | 0.48 | 0.48 | 137.3371 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 5 | 5 | 2452 | 418 | .595 | 0.44 | 0.72 |  |  | 0.48 | 0.48 |  |
| Collectivistic | 2 | 2 | 1939 | 431 | .625 | 0.60 | 0.65 |  |  | 0.00 | 0.00 |  |
| Country |  |  |  |  |  |  |  | 0.58 | 0.58 |  |  |  |
| UK | 2 | 2 | 730 | 354 | .420 | 0.17 | 0.62 |  |  | 0.46 | 0.46 |  |
| USA | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 7 | 7 | 4391 | 422 | .601 | 0.49 | 0.69 |  |  | 0.48 | 0.48 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.57 | 0.57 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 5 | 5 | 3661 | 457 | .658 | 0.60 | 0.71 |  |  | 0.44 | 0.44 |  |
| Adolescents | 2 | 2 | 730 | 354 | .420 | 0.17 | 0.62 |  |  | 0.46 | 0.46 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 7 | 7 | 4391 | 422 | .601 | 0.49 | 0.69 |  |  | 0.48 | 0.48 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s competence support – Competence | 6 | 6 | 4144 | 478 | .616 | 0.50 | 0.71 |  |  | 0.48 | 0.48 | 135.0711 |
| Culture |  |  |  |  |  |  |  | 0.05 | 0.05 |  |  |  |
| Individualistic | 5 | 5 | 2452 | 418 | .603 | 0.46 | 0.72 |  |  | 0.48 | 0.48 |  |
| Collectivistic | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 2 | 2 | 1215 | 554 | .421 | 0.35 | 0.48 |  |  | 0.24 | 0.24 |  |
| USA | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 6 | 6 | 4144 | 478 | .616 | 0.50 | 0.71 |  |  | 0.48 | 0.48 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.01 | 0.01 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 4 | 4 | 3414 | 580 | .623 | 0.54 | 0.70 |  |  | 0.4 | 0.46 |  |
| Adolescents | 2 | 2 | 730 | 354 | .600 | 0.25 | 0.81 |  |  | 0.49 | 0.49 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 6 | 6 | 4144 | 478 | .616 | 0.50 | 0.71 |  |  | 0.48 | 0.48 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s competence support – Relatedness | 6 | 6 | 4144 | 478 | .608 | 0.50 | 0.69 |  |  | 0.48 | 0.48 | 118.0848 |
| Culture |  |  |  |  |  |  |  | 0.03 | 0.03 |  |  |  |
| Individualistic | 5 | 5 | 2452 | 418 | .600 | 0.47 | 0.70 |  |  | 0.47 | 0.47 |  |
| Collectivistic | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 2 | 2 | 1215 | 554 | .596 | 0.36 | 0.76 |  |  | 0.48 | 0.48 |  |
| USA | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 6 | 6 | 4144 | 478 | .608 | 0.50 | 0.69 |  |  | 0.48 | 0.48 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 4 | 4 | 3414 | 580 | .613 | 0.50 | 0.70 |  |  | 0.47 | 0.47 |  |
| Adolescents | 2 | 2 | 730 | 354 | .600 | 0.35 | 0.77 |  |  | 0.47 | 0.47 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 6 | 6 | 4144 | 478 | .608 | 0.50 | 0.69 |  |  | 0.48 | 0.48 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s competence support – Autonomous Motivation | 6 | 10 | 6310 | 476 | .627 | 0.55 | 0.69 |  |  | 0.00 | 0.97 | 117.4986 |
| Culture |  |  |  |  |  |  |  | 0.24 | 0.07 |  |  |  |
| Individualistic | 5 | 9 | 4618 | 441 | .623 | 0.49 | 0.73 |  |  | 0.00 | 0.95 |  |
| Collectivistic | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.78 | 0.00 |  |  |  |
| UK | 2 | 4 | 2430 | 555 | .507 | 0.46 | 0.55 |  |  | 0.00 | 0.44 |  |
| USA | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 6 | 10 | 6310 | 476 | .627 | 0.55 | 0.69 |  |  | 0.00 | 0.97 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.73 | 0.20 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 4 | 6 | 4850 | 618 | .651 | 0.58 | 0.71 |  |  | 0.00 | 0.89 |  |
| Adolescents | 2 | 4 | 1460 | 354 | .572 | .42 | 0.69 |  |  | 0.00 | 0.88 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 6 | 10 | 6310 | 476 | .627 | 0.55 | 0.69 |  |  | 0.00 | 0.97 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s competence support – Introjected Regulation | 4 | 4 | 2166 | 473 | .317 | 0.19 | 0.43 |  |  | 0.45 | 0.45 | 49.37274 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| Individualistic | 4 | 4 | 2166 | 473 | .317 | 0.19 | 0.43 |  |  | 0.45 | 0.45 |  |
| Collectivistic | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 2 | 2 | 1215 | 554 | .209 | 0.16 | 0.25 |  |  | 0.00 | 0.00 |  |
| USA | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 4 | 4 | 2166 | 473 | .317 | 0.19 | 0.43 |  |  | 0.45 | 0.45 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 2 | 2 | 1436 | 711 | .353 | 0.12 | 0.55 |  |  | 0.48 | 0.48 |  |
| Adolescents | 2 | 2 | 730 | 354 | .272 | 0.21 | 0.33 |  |  | 0.00 | 0.00 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 4 | 4 | 2166 | 473 | .317 | 0.19 | 0.43 |  |  | 0.45 | 0.45 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s competence support – External Regulation | 4 | 4 | 2166 | 473 | -.080 | -0.28 | 0.12 |  |  | 0.48 | 0.48 | 104.8497 |
| Culture |  |  |  |  |  |  |  | 0.0 | 0.00 |  |  |  |
| Individualistic | 4 | 4 | 2166 | 473 | -.080 | -0.28 | 0.12 |  |  | 0.48 | 0.48 |  |
| Collectivistic | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 2 | 2 | 1215 | 554 | -.112 | -0.41 | 0.20 |  |  | 0.48 | 0.48 |  |
| USA | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 4 | 4 | 2166 | 473 | -.080 | -0.28 | 0.12 |  |  | 0.48 | 0.48 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.02 | 0.02 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 2 | 2 | 1436 | 711 | -.105 | -0.41 | 0.22 |  |  | 0.48 | 0.48 |  |
| Adolescents | 2 | 2 | 730 | 354 | -.052 | -0.29 | 0.96 |  |  | 0.44 | 0.44 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 4 | 4 | 2166 | 473 | -.080 | -0.28 | 0.12 |  |  | 0.48 | 0.48 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s competence support – Amotivation | 7 | 14 | 6932 | 298 | -.351 | -0.44 | -0.26 |  |  | 0.23 | 0.68 | 186.2875 |
| Culture |  |  |  |  |  |  |  | 0.20 | 0.66 |  |  |  |
| Individualistic | 6 | 13 | 5240 | 280 | -.385 | -0.46 | -0.31 |  |  | 0.34 | 0.47 |  |
| Collectivistic | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.00 | 1.00 |  |  |  |
| UK | 3 | 7 | 2025 | 203 | -.396 | -0.46 | -0.33 |  |  | 0.78 | 0.00 |  |
| USA | 1 | 4 | 2264 | 566 | -.294 | -0.33 | -0.26 |  |  | 0.00 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.02 |  |  |  |
| Both | 6 | 9 | 6122 | 558 | -.350 | -0.46 | -0.23 |  |  | 0.00 | 0.94 |  |
| Male | 1 | 5 | 810 | 162 | -.368 | -0.46 | -0.26 |  |  | 0.64 | 0.00 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.15 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 4 | 8 | 3938 | 233 | -.373 | -0.47 | -0.26 |  |  | 0.92 | 0.00 |  |
| Adolescents | 3 | 6 | 2994 | 472 | -.304 | -0.33 | -0.28 |  |  | 0.00 | 0.00 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 7 | 14 | 6932 | 298 | -.351 | -0.44 | -0.26 |  |  | 0.23 | 0.68 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s competence support – Adaptive Outcomes | 8 | 19 | 10282 | 342 | .397 | 0.30 | 0.48 |  |  | 0.71 | 0.24 | 549.1612 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.59 |  |  |  |
| Individualistic | 5 | 12 | 4272 | 331 | .352 | 0.23 | 0.44 |  |  | 0.91 | 0.00 |  |
| Collectivistic | 3 | 7 | 6010 | 362 | .468 | 0.31 | 0.60 |  |  | 0.47 | 0.49 |  |
| Country |  |  |  |  |  |  |  | 0.01 | 0.18 |  |  |  |
| UK | 1 | 2 | 856 | 428 | .341 | 0.14 | 0.52 |  |  | 0.90 | 0.00 |  |
| USA | 3 | 7 | 2510 | 323 | .371 | 0.23 | 0.49 |  |  | 0.92 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 8 | 19 | 10282 | 342 | .397 | 0.30 | 0.48 |  |  | 0.71 | 0.24 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.04 | 0.82 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 4 | 11 | 7213 | 346 | .467 | 0.35 | 0.57 |  |  | 0.70 | 0.25 |  |
| Adolescents | 4 | 8 | 3069 | 337 | .304 | 0.20 | 0.40 |  |  | 0.89 | 0.00 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 8 | 19 | 10282 | 342 | .397 | 0.30 | 0.48 |  |  | 0.71 | 0.24 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s competence support – Maladaptive Outcomes | 3 | 3 | 2422 | 481 | -.260 | -0.41 | -0.10 |  |  | 0.46 | 0.46 | 41.82589 |
| Culture |  |  |  |  |  |  |  | 0.68 | 0.68 |  |  |  |
| Individualistic | 2 | 2 | 730 | 354 | -.335 | -0.48 | -0.17 |  |  | 0.41 | 0.41 |  |
| Collectivistic | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| USA | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 3 | 3 | 2422 | 481 | -.260 | -0.41 | -0.10 |  |  | 0.46 | 0.46 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.68 | 0.68 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 1 | 11 | - | - | - | - | - |  |  | - | - |  |
| Adolescents | 2 | 2 | 730 | 354 | -.335 | -0.48 | -0.17 |  |  | 0.41 | 0.41 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 6 | 6 | 4144 | 478 | .608 | 0.50 | 0.69 |  |  | 0.48 | 0.48 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s relatedness support– Autonomy | 9 | 9 | 4994 | 384 | .646 | 0.51 | 0.75 |  |  | 0.49 | 0.49 | 307.4592 |
| Culture |  |  |  |  |  |  |  | 0.14 | 0.14 |  |  |  |
| Individualistic | 7 | 7 | 3054 | 372 | .609 | 0.44 | 0.74 |  |  | 0.49 | 0.49 |  |
| Collectivistic | 2 | 2 | 1940 | 433 | .751 | 0.63 | 0.84 |  |  | 0.46 | 0.46 |  |
| Country |  |  |  |  |  |  |  | 0.07 | 0.07 |  |  |  |
| UK | 2 | 2 | 730 | 351 | .550 | 0.19 | 0.78 |  |  | 0.49 | 0.49 |  |
| USA | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 9 | 9 | 4994 | 384 | .646 | 0.51 | 0.75 |  |  | 0.49 | 0.49 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.07 | 0.07 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 7 | 7 | 4264 | 394 | .670 | 0.53 | 0.78 |  |  | 0.49 | 0.49 |  |
| Adolescents | 2 | 2 | 730 | 351 | .550 | 0.19 | 0.78 |  |  | 0.49 | 0.49 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 9 | 9 | 4994 | 384 | .646 | 0.51 | 0.75 |  |  | 0.49 | 0.49 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s relatedness support – Competence | 9 | 9 | 5736 | 441 | .522 | 0.37 | 0.65 |  |  | 0.49 | 0.49 | 320.7369 |
| Culture |  |  |  |  |  |  |  | 0.02 | 0.02 |  |  |  |
| Individualistic | 7 | 7 | 3054 | 372 | .504 | 0.31 | 0.66 |  |  | 0.49 | 0.49 |  |
| Collectivistic | 2 | 2 | 2682 | 1249 | .579 | 0.43 | 0.70 |  |  | 0.48 | 0.48 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 2 | 2 | 1215 | 554 | .485 | 0.45 | 0.52 |  |  | 0.00 | 0.00 |  |
| USA | 2 | 2 | 602 | 292 | .189 | 0.11 | 0.27 |  |  | 0.00 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 9 | 9 | 5736 | 441 | .522 | 0.37 | 0.65 |  |  | 0.49 | 0.49 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.16 | 0.16 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 7 | 7 | 5006 | 474 | .474 | 0.31 | 0.61 |  |  | 0.49 | 0.49 |  |
| Adolescents | 2 | 2 | 730 | 354 | .666 | 0.35 | 0.85 |  |  | 0.49 | 0.49 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 9 | 9 | 5736 | 441 | .522 | 0.37 | 0.65 |  |  | 0.49 | 0.49 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s relatedness support – Relatedness | 12 | 14 | 6767 | 328 | .670 | 0.56 | 0.76 |  |  | 0.59 | 0.39 | 483.5638 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 11 | 12 | 4701 | 305 | .667 | 0.55 | 0.76 |  |  | 0.00 | 0.97 |  |
| Collectivistic | 1 | 2 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.05 |  |  |  |
| UK | 2 | 2 | 1215 | 554 | .732 | 0.60 | 0.82 |  |  | 0.47 | 0.47 |  |
| USA | 3 | 4 | 952 | 199 | .689 | 0.35 | 0.87 |  |  | 0.00 | 0.98 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 11 | 12 | 6019 | 322 | .681 | 0.57 | 0.77 |  |  | 0.00 | 0.98 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 1 | 2 | 374 | 374 | .647 | 0.40 | 0.81 |  |  | 0.96 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.29 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 9 | 9 | 5371 | 437 | .716 | 0.62 | 0.79 |  |  | 0.49 | 0.49 |  |
| Adolescents | 3 | 5 | 1022 | 207 | .477 | 0.28 | 0.64 |  |  | 0.00 | 0.91 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 12 | 14 | 6767 | 328 | .670 | 0.56 | 0.76 |  |  | 0.59 | 0.39 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s relatedness support – Autonomous Motivation | 13 | 24 | 13592 | 331 | .527 | 0.44 | 0.60 |  |  | 0.05 | 0.90 | 534.4104 |
| Culture |  |  |  |  |  |  |  | 0.01 | 0.10 |  |  |  |
| Individualistic | 9 | 18 | 7254 | 293 | .556 | 0.47 | 0.64 |  |  | 0.10 | 0.84 |  |
| Collectivistic | 4 | 6 | 6338 | 540 | .453 | 0.27 | 0.60 |  |  | 0.00 | 0.98 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 2 | 4 | 2430 | 554 | .526 | 0.49 | 0.56 |  |  | 0.05 | 0.00 |  |
| USA | 4 | 8 | 1782 | 195 | .524 | 0.32 | 0.68 |  |  | 0.18 | 0.75 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 13 | 24 | 13592 | 331 | .527 | 0.44 | 0.60 |  |  | 0.05 | 0.90 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 10 | 18 | 11840 | 379 | .525 | 0.41 | 0.62 |  |  | 0.08 | 0.90 |  |
| Adolescents | 3 | 6 | 1752 | 240 | .538 | 0.51 | 0.57 |  |  | 0.00 | 0.00 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 13 | 24 | 13592 | 331 | .527 | 0.44 | 0.60 |  |  | 0.05 | 0.90 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s relatedness support – Introjected Regulation | 10 | 11 | 4806 | 298 | .242 | 0.15 | 0.33 |  |  | 0.90 | 0.00 | 141.2983 |
| Culture |  |  |  |  |  |  |  | 0.46 | 0.00 |  |  |  |
| Individualistic | 8 | 9 | 3567 | 282 | .286 | 0.20 | 0.37 |  |  | 0.84 | 0.00 |  |
| Collectivistic | 2 | 2 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 2 | 2 | - | - | - | - | - |  |  | 0.00 | 0.00 |  |
| USA | 3 | 4 | 831 | 184 | .243 | 0.12 | 0.36 |  |  | 0.76 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 10 | 11 | 4806 | 298 | .242 | 0.15 | 0.33 |  |  | 0.90 | 0.00 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.08 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 7 | 8 | 3930 | 357 | .216 | 0.10 | 0.33 |  |  | 0.92 | 0.00 |  |
| Adolescents | 3 | 3 | 876 | 240 | .289 | 0.21 | 0.37 |  |  | 0.02 | 0.02 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 10 | 11 | 4806 | 298 | .242 | 0.15 | 0.33 |  |  | 0.90 | 0.00 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s relatedness support – External Regulation | 9 | 10 | 4557 | 303 | -.153 | -0.31 | 0.01 |  |  | 0.00 | 0.96 | 309.8564 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.07 |  |  |  |
| Individualistic | 8 | 9 | 3567 | 282 | -.129 | -0.30 | 0.05 |  |  | 0.00 | 0.96 |  |
| Collectivistic | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.30 |  |  |  |
| UK | 2 | 2 | 1215 | 554 | -.390 | -0.49 | -0.29 |  |  | 0.38 | 0.38 |  |
| USA | 3 | 4 | 831 | 184 | -.108 | -0.41 | 0.22 |  |  | 0.00 | 0.94 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 9 | 10 | 4557 | 303 | -.153 | -0.31 | 0.01 |  |  | 0.00 | 0.96 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 6 | 7 | 3681 | 342 | -.147 | -0.37 | 0.09 |  |  | 0.00 | 0.98 |  |
| Adolescents | 3 | 3 | 876 | 240 | -.172 | -0.30 | -0.04 |  |  | 0.36 | 0.36 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 9 | 10 | 4557 | 303 | -.153 | -0.31 | 0.01 |  |  | 0.00 | 0.96 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s relatedness support – Amotivation | 11 | 27 | 10549 | 258 | -.281 | -0.38 | -0.17 |  |  | 0.16 | 0.78 | 414.1287 |
| Culture |  |  |  |  |  |  |  | 0.08 | 0.15 |  |  |  |
| Individualistic | 9 | 21 | 6952 | 230 | -.312 | -0.42 | -0.20 |  |  | 0.21 | 0.71 |  |
| Collectivistic | 2 | 6 | 3597 | 437 | -.123 | -0.29 | 0.06 |  |  | 0.08 | 0.82 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.30 |  |  |  |
| UK | 0 | 0 | 1215 | 554 | -.390 | -0.49 | -0.29 |  |  | 0.38 | 0.38 |  |
| USA | 3 | 4 | 831 | 184 | -.108 | -0.41 | 0.22 |  |  | 0.00 | 0.94 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.06 |  |  |  |
| Both | 10 | 22 | 9739 | 297 | -.279 | -0.39 | -0.16 |  |  | 0.12 | 0.82 |  |
| Male | 1 | 5 | 810 | 162 | -.308 | -0.39 | -0.22 |  |  | 0.49 | 0.00 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 6 | 15 | 5504 | 208 | -.281 | -0.45 | -0.09 |  |  | 0.21 | 0.74 |  |
| Adolescents | 5 | 12 | 5045 | 367 | -.262 | -0.33 | -0.19 |  |  | 0.26 | 0.36 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.02 | 0.00 |  |  |  |
| Low Risk of Bias | 11 | 27 | 10549 | 258 | -.281 | -0.38 | -0.17 |  |  | 0.16 | 0.78 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s relatedness support – Adaptive Outcomes | 18 | 41 | 23960 | 339 | .383 | 0.32 | 0.44 |  |  | 0.96 | 0.00 | 1118.155 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 14 | 33 | 17164 | 361 | .390 | 0.33 | 0.45 |  |  | 0.95 | 0.00 |  |
| Collectivistic | 4 | 8 | 6796 | 390 | .349 | 0.16 | 0.51 |  |  | 0.28 | 0.92 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 | 0 |  |  |
| UK | 1 | 2 | 856 | 428 | .384 | 0.16 | 0.57 |  |  | 0.92 | 0.00 |  |
| USA | 7 | 15 | 4385 | 252 | .375 | 0.28 | 0.46 |  |  | 0.91 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 17 | 37 | 22464 | 336 | .396 | 0.34 | 0.45 |  |  | 0.95 | 0.00 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 1 | 4 | 1496 | 374 | .345 | 0.16 | 0.51 |  |  | 0.93 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 12 | 31 | 16348 | 345 | .397 | 0.33 | 0.46 |  |  | 0.95 | 0.00 |  |
| Adolescents | 6 | 10 | 7612 | 323 | .375 | 0.27 | 0.47 |  |  | 0.93 | 0.00 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 18 | 41 | 23960 | 339 | .383 | 0.32 | 0.44 |  |  | 0.96 | 0.00 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Teacher’s relatedness support – Maladaptive Outcomes | 9 | 12 | 6404 | 324 | -.137 | -0.25 | -0.02 |  |  | 0.43 | 0.51 | 209.515 |
| Culture |  |  |  |  |  |  |  | 0.20 | 0.00 |  |  |  |
| Individualistic | 8 | 11 | 4712 | 302 | -.130 | -0.27 | -0.08 |  |  | 0.86 | 0.00 |  |
| Collectivistic | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Country |  |  |  |  |  |  |  | 0.04 | 0.00 |  |  |  |
| UK | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| USA | 3 | 4 | 952 | 199 | -.174 | -0.24 | -0.10 |  |  | 0.18 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 8 | 11 | 6030 | 320 | -.160 | -0.26 | -0.05 |  |  | 0.90 | 0.00 |  |
| Male | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Female | 1 | 1 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.47 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 6 | 8 | 5382 | 453 | -.107 | -0.18 | -0.04 |  |  | 0.80 | 0.00 |  |
| Adolescents | 3 | 4 | 1022 | 207 | -.284 | -0.43 | -0.12 |  |  | 0.81 | 0.00 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 9 | 12 | 6404 | 324 | -.137 | -0.25 | -0.02 |  |  | 0.43 | 0.51 |  |
| High Risk of Bias | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Autonomy – Competence | 54 | 66 | 32833 | 284 | .651 | 0.58 | 0.71 |  |  | 0.08 | 0.91 | 5864.978 |
| Culture\* **(p<0.001)** |  |  |  |  |  |  |  | 0.00 | 0.22 |  |  |  |
| Individualistic | 32 | 39 | 17894 | 281 | .543 | 0.44 | 0.63 |  |  | 0.04 | 0.94 |  |
| Collectivistic | 21 | 26 | 14224 | 285 | .779 | 0.70 | 0.84 |  |  | 0.15 | 0.84 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.11 |  |  |  |
| UK | 3 | 3 | 1393 | 325 | .533 | 0.29 | 0.71 |  |  | 0.48 | 0.48 |  |
| USA | 11 | 17 | 7326 | 250 | .485 | 0.29 | 0.64 |  |  | 0.03 | 0.95 |  |
| Sex\* **(p<0.001)** |  |  |  |  |  |  |  | 0.57 | 0.01 |  |  |  |
| Both | 50 | 59 | 29969 | 295 | .669 | 0.60 | 0.73 |  |  | 0.03 | 0.96 |  |
| Male | 4 | 4 | 1482 | 191 | .279 | -0.03 | 0.54 |  |  | 0.48 | 0.48 |  |
| Female | 3 | 3 | 1382 | 275 | .383 | 0.26 | 0.50 |  |  | 0.40 | 0.40 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 1 | 1073 | 1073 | .422 | 0.37 | 0.47 |  |  | 0.50 | 0.50 |  |
| Preadolescents | 29 | 38 | 18253 | 261 | .591 | 0.50 | 0.67 |  |  | 0.05 | 0.93 |  |
| Adolescents | 26 | 27 | 13507 | 317 | .719 | 0.62 | 0.80 |  |  | 0.37 | 0.62 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.02 |  |  |  |
| Low Risk of Bias | 53 | 65 | 32540 | 285 | .656 | 0.58 | 0.72 |  |  | 0.08 | 0.91 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Autonomy – Relatedness | 51 | 62 | 30482 | 280 | .596 | 0.53 | 0.65 |  |  | 0.60 | 0.37 | 2941.103 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 30 | 37 | 16357 | 277 | .565 | 0.49 | 0.63 |  |  | 0.76 | 0.21 |  |
| Collectivistic | 21 | 26 | 14224 | 285 | .779 | 0.70 | 0.84 |  |  | 0.15 | 0.84 |  |
| Country |  |  |  |  |  |  |  | 0.07 | 0.00 |  |  |  |
| UK | 8 | 8 | 3624 | 371 | .683 | 0.57 | 0.77 |  |  | 0.48 | 0.48 |  |
| USA | 11 | 17 | 5365 | 221 | .567 | 0.43 | 0.67 |  |  | 0.88 | 0.08 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 100.0 |  |  |  |
| Both | 549 | 59 | 30106 | 300 | .605 | 0.55 | 0.66 |  |  | 0.89 | 0.09 |  |
| Male | 2 | 3 | 376 | 122 | .506 | NA | NA |  |  | 0.93 | 0.00 |  |
| Female | 1 | 2 | 276 | 138 | .296 | -0.12 | 0.62 |  |  | 0.92 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 1 | 1073 | 1073 | .635 | 0.60 | 0.67 |  |  | 0.50 | 0.50 |  |
| Preadolescents | 29 | 40 | 17353 | 241 | .583 | 0.51 | 0.65 |  |  | 0.82 | 0.15 |  |
| Adolescents | 23 | 23 | 12332 | 332 | .611 | 0.51 | 0.69 |  |  | 0.49 | 0.49 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.01 | 0.02 |  |  |  |
| Low Risk of Bias | 50 | 63 | 30465 | 271 | .600 | 0.54 | 0.65 |  |  | 0.77 | 0.21 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Autonomy – Autonomous Motivation | 33 | 80 | 34165 | 235 | .565 | 0.50 | 0.63 |  |  | 0.13 | 0.84 | 2696.958 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| Individualistic | 18 | 46 | 18988 | 262 | .536 | 0.45 | 0.62 |  |  | 0.19 | 0.78 |  |
| Collectivistic | 15 | 34 | 15177 | 186 | .599 | 0.49 | 0.69 |  |  | 0.09 | 0.89 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.02 |  |  |  |
| UK | 6 | 11 | 4890 | 359 | .610 | 0.45 | 0.73 |  |  | 0.08 | 0.89 |  |
| USA | 7 | 22 | 6290 | 187 | .538 | 0.42 | 0.64 |  |  | 0.21 | 0.70 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 31 | 76 | 33151 | 240 | .564 | 0.49 | 0.63 |  |  | 0.12 | 0.85 |  |
| Male | 2 | 3 | 607 | 134 | .534 | 0.48 | 0.59 |  |  | 0.00 | 0.28 |  |
| Female | 1 | 1 | 400 | 400 | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 2 | 2146 | 1073 | .414 | 0.38 | 0.45 |  |  | 0.00 | 0.00 |  |
| Preadolescents | 15 | 40 | 13542 | 200 | .647 | 0.59 | 0.70 |  |  | 0.23 | 0.69 |  |
| Adolescents | 18 | 38 | 18477 | 273 | .503 | 0.38 | 0.61 |  |  | 0.14 | 0.84 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Low Risk of Bias | 32 | 78 | 33579 | 233 | .569 | 0.50 | 0.63 |  |  | 0.13 | 0.84 |  |
| High Risk of Bias | 1 | 2 | 586 | 293 | .450 | 0.36 | 0.53 |  |  | 0.39 | 0.00 |  |
| Autonomy – Introjected Regulation | 28 | 35 | 12779 | 213 | .346 | 0.26 | 0.42 |  |  | 0.22 | 0.73 | 809.4907 |
| Culture |  |  |  |  |  |  |  | 0.01 | 0.01 |  |  |  |
| Individualistic | 17 | 22 | 7991 | 248 | .325 | 0.22 | 0.42 |  |  | 0.00 | 0.95 |  |
| Collectivistic | 11 | 13 | 4788 | 152 | .359 | 0.19 | 0.51 |  |  | 0.42 | 0.54 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.02 |  |  |  |
| UK | 6 | 6 | 2609 | 356 | .397 | 0.32 | 0.47 |  |  | 0.41 | 0.41 |  |
| USA | 7 | 12 | 3442 | 193 | .337 | 0.15 | 0.50 |  |  | 0.00 | 0.95 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Both | 27 | 34 | 12679 | 221 | .342 | 0.25 | 0.43 |  |  | 0.22 | 0.74 |  |
| Male | 1 | 1 | 100 | 100 | .446 | 0.27 | 0.59 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 100.0 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 458 | .545 | 0.13 | 0.78 |  |  | 0.49 | 0.49 |  |
| Preadolescents | 14 | 20 | 6110 | 198 | .307 | 0.22 | 0.39 |  |  | 0.00 | 0.88 |  |
| Adolescents | 13 | 13 | 5305 | 221 | .352 | 0.20 | 0.48 |  |  | 0.49 | 0.49 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.17 |  |  |  |
| Low Risk of Bias | 27 | 34 | 12486 | 212 | .361 | 0.28 | 0.44 |  |  | 0.25 | 0.71 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Autonomy – External Regulation | 29 | 36 | 14082 | 220 | -.131 | -0.23 | -0.03 |  |  | 0.13 | 0.84 | 912.3109 |
| Culture |  |  |  |  |  |  |  | 0.06 | 0.21 |  |  |  |
| Individualistic | 18 | 23 | 9294 | 260 | -.222 | -0.32 | -0.12 |  |  | 0.19 | 0.76 |  |
| Collectivistic | 11 | 13 | 4788 | 164 | .027 | -0.13 | 0.18 |  |  | 0.09 | 0.86 |  |
| Country |  |  |  |  |  |  |  | 0.06 | 0.19 |  |  |  |
| UK | 5 | 5 | 2281 | 362 | -.351 | -0.43 | -0.26 |  |  | 0.40 | 0.40 |  |
| USA | 7 | 12 | 3442 | 193 | -.173 | -0.37 | 0.04 |  |  | 0.13 | 0.83 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| Both | 28 | 35 | 13982 | 227 | -.139 | -0.24 | -0.04 |  |  | 0.13 | 0.84 |  |
| Male | 1 | 1 | 100 | 100 | .110 | -0.09 | 0.30 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.45 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 458 | -.047 | -0.27 | 0.18 |  |  | 0.46 | 0.46 |  |
| Preadolescents | 13 | 19 | 5782 | 194 | -.224 | -0.36 | -0.08 |  |  | 0.11 | 0.84 |  |
| Adolescents | 15 | 15 | 6936 | 244 | -.077 | -0.21 | 0.06 |  |  | 0.48 | 0.48 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 28 | 35 | 13789 | 218 | -.130 | -0.23 | -0.03 |  |  | 0.12 | 0.84 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Autonomy – Amotivation | 26 | 44 | 20058 | 288 | -.288 | -0.36 | -0.20 |  |  | 0.34 | 0.62 | 1317.835 |
| Culture |  |  |  |  |  |  |  | 0.02 | 0.01 |  |  |  |
| Individualistic | 14 | 14 | 7042 | 375 | -.319 | -0.43 | -0.20 |  |  | 0.48 | 0.48 |  |
| Collectivistic | 12 | 30 | 13016 | 261 | -.252 | -0.37 | -0.13 |  |  | 0.35 | 0.61 |  |
| Country |  |  |  |  |  |  |  | 0.01 | 0.04 |  |  |  |
| UK | 6 | 6 | 2609 | 356 | -.351 | -0.53 | -0.15 |  |  | 0.48 | 0.48 |  |
| USA | 2 | 2 | 1364 | 458 | -.246 | -0.65 | 0.26 |  |  | 0.49 | 0.49 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 25 | 43 | 19958 | 302 | -.287 | -0.37 | -0.20 |  |  | 0.33 | 0.63 |  |
| Male | 1 | 1 | 100 | 100 | -.310 | -0.48 | -0.12 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.40 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 458 | -.246 | -0.65 | 0.26 |  |  | 0.49 | 0.49 |  |
| Preadolescents | 11 | 24 | 10954 | 314 | -.288 | -0.42 | -0.14 |  |  | 0.13 | 0.84 |  |
| Adolescents | 14 | 18 | 7740 | 250 | -.312 | -0.41 | -0.21 |  |  | 0.47 | 0.47 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Low Risk of Bias | 25 | 43 | 19765 | 288 | -.292 | -0.38 | -0.20 |  |  | 0.33 | 0.63 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Autonomy – Adaptive Outcomes | 48 | 154 | 63924 | 268 | .439 | 0.38 | 0.50 |  |  | 0.32 | 0.65 | 6549.014 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.07 |  |  |  |
| Individualistic | 27 | 86 | 31418 | 284 | .348 | 0.28 | 0.41 |  |  | 0.50 | 0.45 |  |
| Collectivistic | 19 | 64 | 30262 | 243 | .555 | 0.46 | 0.64 |  |  | 0.26 | 0.71 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.09 |  |  |  |
| UK | 7 | 25 | 10282 | 356 | .319 | 0.17 | 0.45 |  |  | 0.32 | 0.63 |  |
| USA | 9 | 29 | 11335 | 274 | .403 | 0.32 | 0.48 |  |  | 0.79 | 0.16 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 45 | 143 | 61982 | 288 | .452 | 0.39 | 0.51 |  |  | 0.33 | 0.64 |  |
| Male | 3 | 7 | 1121 | 129 | .348 | 0.12 | 0.54 |  |  | 0.02 | 0.85 |  |
| Female | 2 | 4 | 821 | 165 | .229 | NA | NA |  |  | 0.65 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 1 | 1073 | 1073 | .422 | 0.37 | 0.47 |  |  | 0.50 | 0.50 |  |
| Preadolescents | 24 | 80 | 30623 | 256 | .464 | 0.36 | 0.55 |  |  | 0.21 | 0.76 |  |
| Adolescents | 25 | 73 | 32228 | 280 | .455 | 0.39 | 0.52 |  |  | 0.51 | 0.46 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Low Risk of Bias | 47 | 153 | 63631 | 268 | .445 | 0.38 | 0.50 |  |  | 0.32 | 0.65 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Autonomy – Maladaptive Outcomes | 14 | 20 | 9959 | 238 | -.262 | -0.31 | -0.13 |  |  | 0.67 | 0.28 | 500.6509 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.09 |  |  |  |
| Individualistic | 7 | 9 | 3438 | 359 | -.192 | -0.31 | -0.06 |  |  | 0.90 | 0.00 |  |
| Collectivistic | 7 | 11 | 6521 | 187 | -.249 | -0.40 | -0.09 |  |  | 0.22 | 0.74 |  |
| Country |  |  |  |  |  |  |  | 0.22 | 0.30 |  |  |  |
| UK | 2 | 4 | 1910 | 476 | .155 | 0.09 | 0.21 |  |  | 0.72 | 0.00 |  |
| USA | 3 | 3 | 933 | 391 | .212 | 0.13 | 0.29 |  |  | 0.21 | 0.21 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.10 |  |  |  |
| Both | 13 | 19 | 9859 | 257 | -.218 | -0.31 | -0.12 |  |  | 0.67 | 0.28 |  |
| Male | 1 | 1 | 100 | 100 | -.354 | -0.52 | -0.17 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.04 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 6 | 9 | 4480 | 173 | -.192 | -0.36 | -0.02 |  |  | 0.97 | 0.00 |  |
| Adolescents | 8 | 11 | 5479 | 345 | -.250 | -0.34 | -0.15 |  |  | 0.41 | 0.50 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.07 |  |  |  |
| Low Risk of Bias | 13 | 19 | 9666 | 236 | -.220 | -0.31 | -0.12 |  |  | 0.66 | 0.28 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Competence – Relatedness | 50 | 60 | 29367 | 274 | .584 | 0.54 | 0.62 |  |  | 0.44 | 0.52 | 1346.914 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 30 | 36 | 16324 | 273 | .524 | 0.48 | 0.57 |  |  | 0.94 | 0.00 |  |
| Collectivistic | 19 | 23 | 12328 | 269 | .661 | 0.60 | 0.71 |  |  | 0.24 | 0.72 |  |
| Country |  |  |  |  |  |  |  | 0.18 | 0.00 |  |  |  |
| UK | 5 | 5 | 2502 | 380 | .645 | 0.54 | 0.73 |  |  | 0.47 | 0.47 |  |
| USA | 13 | 18 | 6429 | 233 | .515 | 0.45 | 0.58 |  |  | 0.92 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.06 | 0.00 |  |  |  |
| Both | 48 | 57 | 28991 | 293 | .587 | 0.54 | 0.63 |  |  | 0.48 | 0.49 |  |
| Male | 2 | 2 | 238 | 116 | .542 | 0.44 | 0.63 |  |  | 0.00 | 0.00 |  |
| Female | 1 | 1 | 138 | 138 | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 1 | 1073 | 1073 | - | - | - |  |  | - | - |  |
| Preadolescents | 27 | 35 | 16204 | 249 | .554 | 0.50 | 0.60 |  |  | 0.77 | 0.18 |  |
| Adolescents | 24 | 24 | 12090 | 311 | .620 | 0.56 | 0.68 |  |  | 0.48 | 0.48 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Low Risk of Bias | 49 | 59 | 29074 | 274 | .587 | 0.55 | 0.63 |  |  | 0.43 | 0.63 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Competence – Autonomous Motivation | 52 | 123 | 54922 | 266 | .597 | 0.56 | 0.66 |  |  | 0.15 | 0.83 | 6858.848 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 27 | 65 | 27247 | 269 | .630 | 0.56 | 0.69 |  |  | 0.18 | 0.80 |  |
| Collectivistic | 24 | 56 | 26861 | 186 | .595 | 0.50 | 0.68 |  |  | 0.12 | 0.86 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| UK | 8 | 17 | 7850 | 376 | .673 | 0.59 | 0.75 |  |  | 0.04 | 0.92 |  |
| USA | 7 | 21 | 6069 | 186 | .521 | 0.42 | 0.61 |  |  | 0.32 | 0.57 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 47 | 113 | 51842 | 270 | .617 | 0.56 | 0.67 |  |  | 0.15 | 0.83 |  |
| Male | 4 | 5 | 1297 | 173 | .553 | 0.36 | 0.70 |  |  | 0.25 | 0.68 |  |
| Female | 4 | 5 | 1783 | 340 | .479 | 0.35 | 0.59 |  |  | 0.00 | 0.89 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 2 | 3 | 2662 | 789 | .454 | 0.13 | 0.69 |  |  | 0.07 | 0.91 |  |
| Preadolescents | 30 | 72 | 28372 | 242 | .588 | 0.53 | 0.64 |  |  | 0.19 | 0.77 |  |
| Adolescents | 21 | 48 | 23888 | 299 | .655 | 0.55 | 0.74 |  |  | 0.14 | 0.85 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.02 |  |  |  |
| Low Risk of Bias | 51 | 121 | 54336 | 266 | .608 | 0.55 | 0.66 |  |  | 0.15 | 0.83 |  |
| High Risk of Bias | 1 | 2 | 586 | 293 | .776 | 0.74 | 0.81 |  |  | 0.00 | 0.00 |  |
| Competence – Introjected Regulation | 38 | 45 | 18288 | 241 | .277 | 0.20 | 0.35 |  |  | 0.11 | 0.85 | 1273.223 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 20 | 25 | 9162 | 246 | .281 | 0.17 | 0.39 |  |  | 0.14 | 0.83 |  |
| Collectivistic | 18 | 20 | 9126 | 234 | .274 | 0.16 | 0.38 |  |  | 0.07 | 0.89 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.09 |  |  |  |
| UK | 8 | 8 | 3761 | 379 | .372 | 0.31 | 0.43 |  |  | 0.38 | 0.38 |  |
| USA | 6 | 11 | 3205 | 190 | .338 | 0.17 | 0.49 |  |  | 0.19 | 0.74 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.06 |  |  |  |
| Both | 36 | 43 | 17845 | 247 | .279 | 0.20 | 0.36 |  |  | 0.11 | 0.86 |  |
| Male | 1 | 1 | 100 | 100 | .485 | 0.32 | 0.62 |  |  | 0.50 | 0.50 |  |
| Female | 1 | 1 | 343 | 343 | .000 | -0.11 | 0.11 |  |  | 0.50 | 0.50 |  |
| Age |  |  |  |  |  |  |  | 0.41 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 458 | .497 | 0.21 | 0.71 |  |  | 0.49 | 0.49 |  |
| Preadolescents | 22 | 28 | 10298 | 228 | .255 | 0.17 | 0.33 |  |  | 0.15 | 0.79 |  |
| Adolescents | 15 | 15 | 6626 | 251 | .276 | 0.13 | 0.41 |  |  | 0.49 | 0.49 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.12 |  |  |  |
| Low Risk of Bias | 37 | 44 | 17995 | 240 | .290 | 0.21 | 0.36 |  |  | 0.12 | 0.84 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Competence – External Regulation | 40 | 50 | 20777 | 245 | -.108 | -0.20 | -0.02 |  |  | 0.21 | 0.76 | 1788.883 |
| Culture |  |  |  |  |  |  |  | 0.02 | 0.02 |  |  |  |
| Individualistic | 22 | 29 | 11517 | 261 | -.156 | -0.26 | -0.05 |  |  | 0.08 | 0.89 |  |
| Collectivistic | 18 | 21 | 9260 | 226 | -.055 | -0.20 | 0.10 |  |  | 0.49 | 0.49 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.11 |  |  |  |
| UK | 6 | 6 | 3105 | 400 | -.292 | -0.38 | -0.20 |  |  | 0.43 | 0.43 |  |
| USA | 6 | 11 | 3205 | 190 | -.149 | -0.25 | -0.04 |  |  | 0.02 | 0.79 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.06 |  |  |  |
| Both | 36 | 44 | 18954 | 247 | -.112 | -0.21 | -0.03 |  |  | 0.26 | 0.71 |  |
| Male | 3 | 3 | 790 | 183 | .211 | 0.03 | 0.38 |  |  | 0.41 | 0.41 |  |
| Female | 3 | 3 | 1033 | 321 | -.013 | -0.44 | 0.42 |  |  | 0.49 | 0.49 |  |
| Age |  |  |  |  |  |  |  | 0.45 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 548 | -.042 | -0.26 | 0.18 |  |  | 0.46 | 0.46 |  |
| Preadolescents | 22 | 31 | 11156 | 226 | -.071 | -0.19 | 0.05 |  |  | 0.12 | 0.84 |  |
| Adolescents | 17 | 17 | 8257 | 272 | -.182 | -0.32 | -0.03 |  |  | 0.49 | 0.49 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Low Risk of Bias | 39 | 49 | 20484 | 244 | -.104 | -0.20 | -0.01 |  |  | 0.21 | 0.77 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Competence – Amotivation | 31 | 50 | 22358 | 289 | -.418 | -0.48 | -0.35 |  |  | 0.42 | 0.54 | 1171.727 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.18 |  |  |  |
| Individualistic | 16 | 16 | 7490 | 328 | -.466 | -0.54 | -0.38 |  |  | 0.47 | 0.47 |  |
| Collectivistic | 15 | 34 | 14868 | 273 | -.368 | -0.46 | -0.27 |  |  | 0.41 | 0.54 |  |
| Country |  |  |  |  |  |  |  | 0.08 | 0.00 |  |  |  |
| UK | 8 | 8 | 3761 | 379 | -.530 | -0.58 | -0.47 |  |  | 0.41 | 0.41 |  |
| USA | 2 | 2 | 1364 | 458 | -.167 | -0.40 | 0.01 |  |  | 0.47 | 0.47 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.04 |  |  |  |
| Both | 30 | 49 | 22258 | 300 | -.413 | -0.48 | -0.35 |  |  | 0.42 | 0.54 |  |
| Male | 1 | 1 | 100 | 100 | -.565 | -0.69 | -0.39 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.76 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 458 | -.167 | -0.40 | 0.09 |  |  | 0.47 | 0.47 |  |
| Preadolescents | 16 | 30 | 13220 | 299 | -.375 | -0.46 | -0.28 |  |  | 0.14 | 0.82 |  |
| Adolescents | 14 | 18 | 7774 | 262 | -.503 | -0.57 | -0.43 |  |  | 0.03 | 0.90 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.04 |  |  |  |
| Low Risk of Bias | 30 | 49 | 22065 | 288 | -.414 | -0.48 | -0.35 |  |  | 0.41 | 0.54 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Competence – Adaptive Outcomes | 103 | 311 | 159975 | 282 | .525 | 0.48 | 0.57 |  |  | 0.44 | 0.55 | 19165.75 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 59 | 169 | 77351 | 266 | .497 | 0.43 | 0.56 |  |  | 0.35 | 0.63 |  |
| Collectivistic | 42 | 138 | 80380 | 300 | .545 | 0.48 | 0.61 |  |  | 0.57 | 0.41 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 14 | 41 | 14829 | 201 | .555 | 0.42 | 0.67 |  |  | 0.36 | 0.62 |  |
| USA | 12 | 43 | 19357 | 299 | .502 | 0.37 | 0.61 |  |  | 0.33 | 0.65 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 93 | 276 | 138724 | 294 | .532 | 0.48 | 0.58 |  |  | 0.45 | 0.53 |  |
| Male | 9 | 18 | 10254 | 190 | .471 | 0.34 | 0.59 |  |  | 0.30 | 0.68 |  |
| Female | 10 | 17 | 10997 | 246 | .413 | 0.29 | 0.52 |  |  | 0.26 | 0.71 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 3 | 4 | 5671 | 261 | .591 | NA | NA |  |  | 0.54 | 0.00 |  |
| Preadolescents | 64 | 189 | 88575 | 273 | .503 | 0.44 | 0.57 |  |  | 0.32 | 0.66 |  |
| Adolescents | 40 | 118 | 65729 | 298 | .560 | 0.50 | 0.62 |  |  | 0.64 | 0.34 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 99 | 301 | 154452 | 284 | .528 | 0.48 | 0.57 |  |  | 0.42 | 0.57 |  |
| High Risk of Bias | 4 | 10 | 5523 | 234 | .468 | 0.30 | 0.61 |  |  | 0.98 | 0.00 |  |
| Competence – Maladaptive Outcomes | 29 | 45 | 21000 | 208 | -.255 | -0.38 | -0.13 |  |  | 0.69 | 0.30 | 2974.374 |
| Culture |  |  |  |  |  |  |  | 0.05 | 0.00 |  |  |  |
| Individualistic | 13 | 19 | 8101 | 253 | -.342 | -0.49 | -0.17 |  |  | 0.51 | 0.47 |  |
| Collectivistic | 16 | 26 | 12899 | 184 | -.194 | -0.38 | 0.00 |  |  | 0.68 | 0.31 |  |
| Country |  |  |  |  |  |  |  | 0.05 | 0.05 |  |  |  |
| UK | 3 | 7 | 3512 | 499 | -.394 | -0.71 | 0.05 |  |  | 0.32 | 0.67 |  |
| USA | 2 | 2 | 635 | 303 | -.590 | -0.64 | -0.54 |  |  | 0.00 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 27 | 43 | 20218 | 210 | -.251 | -0.38 | -0.11 |  |  | 0.68 | 0.30 |  |
| Male | 2 | 2 | 782 | 174 | -.331 | -0.62 | 0.03 |  |  | 0.46 | 0.46 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 1 | 74 | 74 | .319 | 0.10 | 0.51 |  |  | 0.50 | 0.50 |  |
| Preadolescents | 14 | 21 | 10503 | 204 | -.249 | -0.39 | -0.10 |  |  | 0.74 | 0.24 |  |
| Adolescents | 16 | 23 | 10423 | 230 | -.269 | -0.46 | -0.06 |  |  | 0.85 | 0.14 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.45 |  |  |  |
| Low Risk of Bias | 26 | 40 | 19424 | 221 | -.309 | -0.41 | -0.17 |  |  | 0.85 | 0.14 |  |
| High Risk of Bias | 3 | 5 | 1576 | 140 | -.031 | -0.40 | 0.34 |  |  | 0.02 | 0.94 |  |
| Relatedness – Autonomous Motivation | 33 | 81 | 35205 | 246 | .511 | 0.48 | 0.59 |  |  | 0.06 | 0.89 | 1990.033 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.09 |  |  |  |
| Individualistic | 18 | 47 | 18062 | 253 | .575 | 0.50 | 0.64 |  |  | 0.05 | 0.90 |  |
| Collectivistic | 15 | 34 | 17143 | 236 | .483 | 0.40 | 0.56 |  |  | 0.09 | 0.86 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 6 | 11 | 4890 | 359 | .623 | 0.51 | 0.71 |  |  | 0.03 | 0.92 |  |
| USA | 9 | 24 | 6507 | 180 | .587 | 0.50 | 0.66 |  |  | 0.15 | 0.75 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 32 | 79 | 35005 | 255 | .535 | 0.48 | 0.59 |  |  | 0.06 | 0.90 |  |
| Male | 1 | 2 | 200 | 100 | .561 | 0.46 | 0.65 |  |  | 0.00 | 0.00 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 2 | 2146 | 1073 | .561 | 0.53 | 0.59 |  |  | 0.00 | 0.00 |  |
| Preadolescents | 17 | 44 | 15470 | 211 | .586 | 0.51 | 0.65 |  |  | 0.07 | 0.88 |  |
| Adolescents | 16 | 35 | 17589 | 293 | .467 | 0.40 | 0.53 |  |  | 0.07 | 0.86 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 32 | 79 | 34619 | 245 | .535 | 0.48 | 0.59 |  |  | 0.06 | 0.90 |  |
| High Risk of Bias | 1 | 2 | 586 | 293 | .561 | 0.50 | 0.62 |  |  | 0.00 | 0.00 |  |
| Relatedness – Introjected Regulation | 29 | 36 | 13512 | 225 | .269 | 0.19 | 0.35 |  |  | 0.23 | 0.72 | 669.4537 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| Individualistic | 18 | 23 | 8416 | 245 | .293 | 0.18 | 0.40 |  |  | 0.28 | 0.67 |  |
| Collectivistic | 11 | 13 | 5096 | 196 | .245 | 0.12 | 0.37 |  |  | 0.14 | 0.80 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| UK | 6 | 6 | 2609 | 356 | .398 | 0.30 | 0.49 |  |  | 0.44 | 0.44 |  |
| USA | 6 | 11 | 3060 | 179 | .368 | 0.21 | 0.51 |  |  | 0.39 | 0.53 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.02 |  |  |  |
| Both | 28 | 35 | 13412 | 233 | .269 | 0.18 | 0.35 |  |  | 0.23 | 0.73 |  |
| Male | 1 | 1 | 100 | 100 | .446 | 0.27 | 0.59 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 1 | 1073 | 1073 | .336 | 0.28 | 0.39 |  |  | 0.50 | 0.50 |  |
| Preadolescents | 16 | 22 | 7074 | 209 | .291 | 0.19 | 0.39 |  |  | 0.29 | 0.65 |  |
| Adolescents | 13 | 13 | 5365 | 241 | .240 | 0.10 | 0.37 |  |  | 0.48 | 0.48 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.08 | 0.30 |  |  |  |
| Low Risk of Bias | 28 | 35 | 13219 | 223 | .269 | 0.22 | 0.36 |  |  | 0.27 | 0.67 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Relatedness – External Regulation | 31 | 38 | 15106 | 233 | -.078 | -0.15 | 0.00 |  |  | 0.00 | 0.94 | 590.1877 |
| Culture |  |  |  |  |  |  |  | 0.01 | 0.11 |  |  |  |
| Individualistic | 19 | 24 | 8928 | 250 | -.135 | -0.22 | -0.05 |  |  | 0.14 | 0.79 |  |
| Collectivistic | 12 | 14 | 6178 | 210 | .016 | -0.11 | 0.14 |  |  | 0.00 | 0.95 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.09 |  |  |  |
| UK | 5 | 5 | 2281 | 363 | -.240 | -0.29 | -0.19 |  |  | 0.20 | 0.20 |  |
| USA | 7 | 12 | 3351 | 185 | -.163 | -0.29 | -0.03 |  |  | 0.14 | 0.75 |  |
| Sex |  |  |  |  |  |  |  | 0.01 | 0.04 |  |  |  |
| Both | 30 | 37 | 15006 | 241 | -.085 | -0.16 | -0.01 |  |  | 0.00 | 0.94 |  |
| Male | 1 | 1 | 100 | 100 | -.168 | -0.03 | 0.35 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 458 | .083 | -0.06 | 0.22 |  |  | 0.39 | 0.39 |  |
| Preadolescents | 15 | 21 | 6746 | 205 | -.118 | -0.22 | -0.01 |  |  | 0.03 | 0.89 |  |
| Adolescents | 15 | 15 | 6996 | 264 | -.071 | -0.18 | 0.04 |  |  | 0.48 | 0.48 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| Low Risk of Bias | 30 | 37 | 14813 | 231 | -.071 | -0.14 | 0.01 |  |  | 0.00 | 0.94 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Relatedness – Amotivation | 28 | 46 | 20974 | 290 | -.297 | -0.36 | -0.23 |  |  | 0.17 | 0.77 | 593.4189 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Individualistic | 14 | 14 | 6482 | 351 | -.314 | -0.40 | -0.23 |  |  | 0.47 | 0.47 |  |
| Collectivistic | 14 | 32 | 14492 | 270 | -.279 | -0.37 | -0.18 |  |  | 0.15 | 0.79 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.17 |  |  |  |
| UK | 6 | 6 | 2609 | 356 | -.388 | -0.49 | -0.28 |  |  | 0.45 | 0.45 |  |
| USA | 3 | 3 | 1510 | 267 | -.162 | -0.35 | 0.03 |  |  | 0.45 | 0.45 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 27 | 45 | 20874 | 303 | -.296 | -0.36 | -0.23 |  |  | 0.16 | 0.78 |  |
| Male | 1 | 1 | 100 | 100 | -.319 | -0.49 | -0.13 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 458 | -.215 | -0.44 | 0.04 |  |  | 0.47 | 0.47 |  |
| Preadolescents | 13 | 26 | 11918 | 322 | -.281 | -0.38 | -0.18 |  |  | 0.21 | 0.73 |  |
| Adolescents | 14 | 18 | 7692 | 245 | -.323 | -0.40 | -0.24 |  |  | 0.00 | 0.90 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.09 |  |  |  |
| Low Risk of Bias | 27 | 45 | 20681 | 290 | -.288 | -0.35 | -0.22 |  |  | 0.17 | 0.77 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Relatedness – Adaptive Outcomes | 53 | 167 | 67415 | 262 | .426 | 0.38 | 0.47 |  |  | 0.39 | 0.57 | 4849.132 |
| Culture |  |  |  |  |  |  |  | 0.01 | 0.19 |  |  |  |
| Individualistic | 31 | 100 | 35598 | 284 | .391 | 0.33 | 0.45 |  |  | 0.52 | 0.44 |  |
| Collectivistic | 22 | 67 | 30387 | 230 | .448 | 0.38 | 0.51 |  |  | 0.32 | 0.63 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| UK | 7 | 25 | 10282 | 356 | .480 | 0.28 | 0.64 |  |  | 0.19 | 0.79 |  |
| USA | 14 | 41 | 13016 | 253 | .455 | 0.37 | 0.53 |  |  | 0.70 | 0.26 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 50 | 154 | 64791 | 278 | .433 | 0.38 | 0.48 |  |  | 0.40 | 0.56 |  |
| Male | 2 | 6 | 714 | 116 | .253 | -0.10 | 0.55 |  |  | 0.25 | 0.65 |  |
| Female | 2 | 7 | 1910 | 216 | .249 | 0.01 | 0.47 |  |  | 0.51 | 0.42 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 1 | 1073 | 1073 | .558 | 0.52 | 0.60 |  |  | 0.50 | 0.50 |  |
| Preadolescents | 27 | 86 | 33690 | 265 | .389 | 0.31 | 0.46 |  |  | 0.35 | 0.61 |  |
| Adolescents | 27 | 80 | 32652 | 256 | .461 | 0.40 | 0.52 |  |  | 0.50 | 0.46 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 52 | 166 | 67122 | 262 | .427 | 0.38 | 0.48 |  |  | 0.39 | 0.58 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Relatedness – Maladaptive Outcomes | 20 | 26 | 11685 | 224 | -.318 | -0.40 | -0.24 |  |  | 0.21 | 0.54 | 565.2307 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 10 | 13 | 4515 | 296 | -.292 | -0.39 | -0.19 |  |  | 0.81 | 0.10 |  |
| Collectivistic | 10 | 13 | 7170 | 180 | -.340 | -0.46 | -0.20 |  |  | 0.00 | 0.96 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.04 |  |  |  |
| UK | 2 | 4 | 1910 | 476 | -.173 | NA | NA |  |  | 0.94 | 0.00 |  |
| USA | 5 | 6 | 1636 | 230 | -.340 | -0.46 | -0.21 |  |  | 0.88 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| Both | 17 | 24 | 11211 | 232 | -.312 | -0.40 | -0.22 |  |  | 0.41 | 0.54 |  |
| Male | 1 | 1 | 100 | 100 | -.380 | -0.54 | -0.20 |  |  | 0.50 | 0.50 |  |
| Female | 1 | 1 | 374 | 374 | -.388 | -0.47 | -0.30 |  |  | 0.50 | 0.50 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 9 | 12 | 5828 | 204 | -.321 | -0.42 | -0.21 |  |  | 0.47 | 0.46 |  |
| Adolescents | 10 | 14 | 5857 | 245 | -.314 | -0.43 | -0.19 |  |  | 0.39 | 0.56 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.01 | 0.00 |  |  |  |
| Low Risk of Bias | 18 | 25 | 11392 | 222 | -.322 | -0.40 | -0.24 |  |  | 0.40 | 0.54 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Autonomous Motivation – Introjected Regulation | 58 | 152 | 60837 | 237 | .565 | 0.47 | 0.65 |  |  | 0.31 | 0.68 | 26889.27 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Individualistic | 37 | 96 | 34206 | 225 | .588 | 0.48 | 0.68 |  |  | 0.18 | 0.81 |  |
| Collectivistic | 21 | 56 | 26631 | 259 | .529 | 0.31 | 0.69 |  |  | 0.40 | 0.59 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.06 |  |  |  |
| UK | 12 | 27 | 12036 | 263 | .640 | 0.58 | 0.70 |  |  | 0.55 | 0.40 |  |
| USA | 10 | 33 | 8572 | 188 | .692 | 0.60 | 0.77 |  |  | 0.41 | 0.55 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| Both | 56 | 148 | 59951 | 240 | .569 | 0.47 | 0.66 |  |  | 0.32 | 0.68 |  |
| Male | 1 | 2 | 200 | 100 | .714 | 0.64 | 0.78 |  |  | 0.00 | 0.00 |  |
| Female | 1 | 2 | 686 | 343 | .000 | -0.17 | 0.17 |  |  | 0.80 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.01 | 0.00 |  |  |  |
| Children | 1 | 2 | 2146 | 1073 | .530 | 0.40 | 0.64 |  |  | 0.94 | 0.00 |  |
| Preadolescents | 34 | 94 | 34676 | 223 | .571 | 0.44 | 0.68 |  |  | 0.21 | 0.78 |  |
| Adolescents | 24 | 56 | 24015 | 256 | .557 | 0.39 | 0.69 |  |  | 0.46 | 0.53 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.10 |  |  |  |
| Low Risk of Bias | 57 | 150 | 60251 | 236 | .575 | 0.48 | 0.66 |  |  | 0.32 | 0.67 |  |
| High Risk of Bias | 1 | 2 | 586 | 293 | -.240 | -0.34 | -0.14 |  |  | 0.39 | 0.00 |  |
| Autonomous Motivation – External Regulation | 69 | 177 | 75060 | 235 | -.025 | -0.14 | 0.09 |  |  | 0.15 | 0.85 | 23818.91 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.04 |  |  |  |
| Individualistic | 43 | 112 | 43405 | 229 | -.096 | -0.23 | 0.04 |  |  | 0.16 | 0.83 |  |
| Collectivistic | 24 | 59 | 30879 | 271 | .102 | -0.12 | 0.32 |  |  | 0.12 | 0.87 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.07 |  |  |  |
| UK | 10 | 22 | 10396 | 251 | -.317 | -0.44 | -0.18 |  |  | 0.50 | 0.48 |  |
| USA | 12 | 37 | 9976 | 195 | -.010 | -0.15 | 0.13 |  |  | 0.34 | 0.61 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 64 | 165 | 72306 | 242 | -.042 | -0.16 | 0.08 |  |  | 0.15 | 0.84 |  |
| Male | 3 | 4 | 890 | 151 | .444 | 0.14 | 0.67 |  |  | 0.00 | 0.94 |  |
| Female | 4 | 8 | 1864 | 178 | .224 | -0.39 | 0.70 |  |  | 0.16 | 0.83 |  |
| Age |  |  |  |  |  |  |  | 0.01 | 0.00 |  |  |  |
| Children | 1 | 2 | 2146 | 1073 | .235 | 0.17 | 0.30 |  |  | 0.62 | 0.00 |  |
| Preadolescents | 39 | 108 | 37889 | 211 | -.024 | -0.18 | 0.13 |  |  | 0.18 | 0.81 |  |
| Adolescents | 30 | 67 | 35025 | 278 | -.051 | -0.23 | 0.13 |  |  | 0..08 | 0.91 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Low Risk of Bias | 68 | 175 | 74474 | 234 | -.020 | -0.14 | 0.10 |  |  | 0.15 | 0.85 |  |
| High Risk of Bias | 1 | 2 | 586 | 293 | -.384 | -0.46 | -0.31 |  |  | 0.18 | 0.00 |  |
| Autonomous Motivation – Amotivation | 62 | 179 | 77805 | 256 | -.434 | -0.52 | -0.34 |  |  | 0.29 | 0.70 | 14807.1 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.05 |  |  |  |
| Individualistic | 38 | 89 | 36603 | 239 | -.448 | -0.56 | -0.31 |  |  | 0.39 | 0.60 |  |
| Collectivistic | 22 | 84 | 40426 | 301 | -.420 | -0.53 | -0.30 |  |  | 0.20 | 0.78 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.11 |  |  |  |
| UK | 12 | 27 | 12036 | 262 | -.585 | -0.76 | -0.32 |  |  | 0.55 | 0.45 |  |
| USA | 6 | 15 | 5224 | 222 | -.185 | -0.41 | 0.07 |  |  | 0.18 | 0.79 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Both | 60 | 173 | 77117 | 268 | -.435 | -0.52 | -0.34 |  |  | 0.29 | 0.70 |  |
| Male | 1 | 2 | 200 | 100 | -.582 | -0.67 | -0.48 |  |  | 0.00 | 0.00 |  |
| Female | 1 | 4 | 488 | 122 | -.219 | -0.31 | -0.12 |  |  | 0.19 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 2 | 2146 | 1073 | -.245 | -0.59 | 0.17 |  |  | 0.00 | 0.00 |  |
| Preadolescents | 33 | 108 | 41204 | 241 | -.367 | -0.49 | -0.23 |  |  | 0.36 | 0.63 |  |
| Adolescents | 29 | 69 | 34455 | 277 | -.520 | -0.63 | -0.40 |  |  | 0.11 | 0.88 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Low Risk of Bias | 60 | 176 | 76868 | 256 | -.429 | -0.52 | -0.33 |  |  | 0.29 | 0.70 |  |
| High Risk of Bias | 2 | 3 | 937 | 310 | -.605 | -0.69 | -0.51 |  |  | 0.26 | 0.44 |  |
| Autonomous Motivation – Adaptive Outcomes | 105 | 480 | 207584 | 254 | .540 | 0.50 | 0.58 |  |  | 0.44 | 0.54 | 31860.15 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.06 |  |  |  |
| Individualistic | 63 | 277 | 103304 | 249 | .515 | 0.45 | 0.57 |  |  | 0.44 | 0.55 |  |
| Collectivistic | 40 | 191 | 102206 | 271 | .587 | 0.52 | 0.65 |  |  | 0.48 | 0.51 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| UK | 12 | 64 | 27230 | 269 | .543 | 0.40 | 0.66 |  |  | 0.54 | 0.44 |  |
| USA | 17 | 65 | 18066 | 227 | .492 | 0.38 | 0.59 |  |  | 0.38 | 0.58 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 93 | 441 | 192195 | 269 | .548 | 0.50 | 0.59 |  |  | 0.46 | 0.53 |  |
| Male | 9 | 20 | 6597 | 113 | .427 | 0.20 | 0.61 |  |  | 0.40 | 0.57 |  |
| Female | 10 | 19 | 8882 | 244 | .434 | 0.19 | 0.63 |  |  | 0.41 | 0.57 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 3 | 5 | 3469 | 545 | .541 | 0.40 | 0.66 |  |  | 0.94 | 0.03 |  |
| Preadolescents | 55 | 234 | 92511 | 244 | .519 | 0.45 | 0.58 |  |  | 0.45 | 0.54 |  |
| Adolescents | 50 | 241 | 111604 | 261 | .570 | 0.51 | 0.62 |  |  | 0.43 | 0.55 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 103 | 477 | 205943 | 253 | .541 | 0.49 | 0.58 |  |  | 0.44 | 0.54 |  |
| High Risk of Bias | 2 | 3 | 1641 | 386 | .457 | 0.03 | 0.74 |  |  | 0.00 | 0.98 |  |
| Autonomous Motivation – Maladaptive Outcomes | 38 | 94 | 39576 | 229 | -.253 | -0.35 | -0.15 |  |  | 0.46 | 0.52 | 5162.495 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.06 |  |  |  |
| Individualistic | 24 | 60 | 19900 | 247 | -.289 | -0.41 | -0.16 |  |  | 0.44 | 0.54 |  |
| Collectivistic | 14 | 34 | 19676 | 204 | -.181 | -0.34 | -0.01 |  |  | 0.55 | 0.44 |  |
| Country |  |  |  |  |  |  |  | 0.02 | 0.23 |  |  |  |
| UK | 4 | 12 | 6576 | 509 | -.589 | -0.79 | -0.29 |  |  | 0.44 | 0.55 |  |
| USA | 7 | 20 | 4510 | 198 | -.263 | -0.44 | -0.06 |  |  | 0.68 | 0.29 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.20 |  |  |  |
| Both | 35 | 87 | 38358 | 240 | -.220 | -0.32 | -0.12 |  |  | 0.40 | 0.59 |  |
| Male | 2 | 4 | 532 | 125 | -.659 | -0.82 | -0.39 |  |  | 0.95 | 0.00 |  |
| Female | 2 | 3 | 686 | 194 | -.573 | -0.85 | -0.06 |  |  | 0.98 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 15 | 42 | 21325 | 241 | -.182 | -0.33 | -0.02 |  |  | 0.56 | 0.42 |  |
| Adolescents | 23 | 52 | 18251 | 221 | -.297 | -0.42 | -0.16 |  |  | 0.38 | 0.60 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| Low Risk of Bias | 37 | 92 | 38990 | 228 | -.244 | -0.35 | -0.14 |  |  | 0.46 | 052 |  |
| High Risk of Bias | 1 | 2 | 586 | 293 | -.523 | -0.60 | -0.44 |  |  | 0.46 | 0.00 |  |
| Introjected Regulation – External Regulation | 56 | 66 | 26196 | 228 | .560 | 0.48 | 0.63 |  |  | 0.84 | 0.14 | 3777.35 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.51 |  |  |  |
| Individualistic | 35 | 43 | 15788 | 224 | .494 | 0.38 | 0.59 |  |  | 0.93 | 0.06 |  |
| Collectivistic | 21 | 23 | 10408 | 235 | .655 | 0.55 | 0.74 |  |  | 0.71 | 0.27 |  |
| Country |  |  |  |  |  |  |  | 0.09 | 0.50 |  |  |  |
| UK | 10 | 11 | 5198 | 251 | .315 | 0.24 | 0.39 |  |  | 0.86 | 0.00 |  |
| USA | 10 | 16 | 4213 | 189 | .483 | 0.25 | 0.66 |  |  | 0.97 | 0.01 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 54 | 64 | 25753 | 231 | .563 | 0.48 | 0.64 |  |  | 0.84 | 0.15 |  |
| Male | 1 | 1 | 100 | 100 | .217 | 0.02 | 0.40 |  |  | 0.50 | 0.50 |  |
| Female | 1 | 1 | 343 | 343 | .623 | 0.55 | 0.68 |  |  | 0.50 | 0.50 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 1 | 1073 | 1073 | .834 | 0.81 | 0.85 |  |  | 0.50 | 0.50 |  |
| Preadolescents | 32 | 41 | 14858 | 212 | .492 | 0.39 | 0.59 |  |  | 0.93 | 0.05 |  |
| Adolescents | 24 | 24 | 10625 | 252 | .627 | 0.51 | 0.72 |  |  | 0.49 | 0.49 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.01 | 0.13 |  |  |  |
| Low Risk of Bias | 55 | 65 | 25903 | 227 | .552 | 0.47 | 0.62 |  |  | 0.85 | 0.13 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Introjected Regulation – Amotivation | 44 | 65 | 26437 | 255 | .053 | -0.03 | 0.14 |  |  | 0.40 | 0.58 | 1817.888 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.04 |  |  |  |
| Individualistic | 28 | 31 | 12354 | 238 | .009 | -0.10 | 0.12 |  |  | 0.81 | 0.16 |  |
| Collectivistic | 16 | 34 | 14083 | 273 | .127 | -0.03 | 0.27 |  |  | 0.20 | 0.78 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.22 |  |  |  |
| UK | 12 | 13 | 5854 | 261 | -.052 | -0.16 | 0.06 |  |  | 0.00 | 0.94 |  |
| USA | 4 | 5 | 1837 | 214 | .284 | 0.08 | 0.47 |  |  | 0.98 | 0.00 |  |
| Sex\***(p<0.001)** |  |  |  |  |  |  |  | 0.00 | 0.08 |  |  |  |
| Both | 43 | 64 | 26337 | 261 | .063 | -0.02 | 0.15 |  |  | 0.41 | 0.56 |  |
| Male | 1 | 1 | 100 | 100 | -.388 | 0.54 | -0.21 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.07 | 0.02 |  |  |  |
| Children | 1 | 1 | 1073 | 1073 | .537 | 0.49 | 0.58 |  |  | 0.50 | 0.50 |  |
| Preadolescents | 26 | 42 | 16369 | 255 | .011 | -0.09 | 0.11 |  |  | 0.33 | 0.64 |  |
| Adolescents | 18 | 22 | 8995 | 246 | .084 | -0.05 | 0.22 |  |  | 0.14 | 0.83 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.08 |  |  |  |
| Low Risk of Bias | 43 | 64 | 26144 | 254 | .044 | -0.04 | 0.13 |  |  | 0.41 | 0.56 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Introjected Regulation – Adaptive Outcomes | 51 | 125 | 49964 | 253 | .256 | 0.18 | 0.31 |  |  | 0.37 | 0.59 | 2966.77 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.05 |  |  |  |
| Individualistic | 29 | 73 | 27793 | 280 | .294 | 0.22 | 0.36 |  |  | 0.60 | 0.36 |  |
| Collectivistic | 22 | 52 | 22171 | 222 | .200 | 0.08 | 0.31 |  |  | 0.11 | 0.87 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.20 |  |  |  |
| UK | 10 | 28 | 12972 | 311 | .274 | NA | NA |  |  | 0.95 | 0.00 |  |
| USA | 9 | 23 | 6680 | 225 | .413 | 0.29 | 0.53 |  |  | 0.48 | 0.47 |  |
| Sex\* **(*p*=0.017)** |  |  |  |  |  |  |  | 0.00 | 0.24 |  |  |  |
| Both | 49 | 121 | 49321 | 262 | .254 | 0.19 | 0.31 |  |  | 0.43 | 0.53 |  |
| Male | 1 | 3 | 300 | 100 | .657 | 0.58 | 0.72 |  |  | 0.16 | 0.00 |  |
| Female | 1 | 1 | 343 | 343 | -.207 | -0.31 | -0.10 |  |  | 0.50 | 0.50 |  |
| Age |  |  |  |  |  |  |  | 0.05 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 458 | .405 | 0.09 | 0.65 |  |  | 0.48 | 0.48 |  |
| Preadolescents | 29 | 70 | 28145 | 254 | .206 | 0.13 | 0.28 |  |  | 0.56 | 0.40 |  |
| Adolescents | 22 | 53 | 20455 | 247 | .316 | 0.21 | 0.41 |  |  | 0.18 | 0.79 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.01 | 0.11 |  |  |  |
| Low Risk of Bias | 50 | 124 | 49671 | 253 | .265 | 0.20 | 0.33 |  |  | 0.39 | 0.57 |  |
| High Risk of Bias | 1 | 1 | 293 | - | - | - | - |  |  | - | - |  |
| Introjected Regulation – Maladaptive Outcomes | 22 | 31 | 11837 | 212 | .129 | 0.01 | 0.24 |  |  | 0.69 | 0.28 | 1033.303 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.62 |  |  |  |
| Individualistic | 14 | 19 | 6853 | 273 | .054 | -0.06 | 0.17 |  |  | 0.96 | 0.00 |  |
| Collectivistic | 8 | 12 | 4984 | 156 | .239 | 0.02 | 0.44 |  |  | 0.20 | 0.78 |  |
| Country |  |  |  |  |  |  |  | 0.11 | 0.19 |  |  |  |
| UK | 4 | 6 | 3288 | 509 | -.004 | -0.46 | 0.39 |  |  | 0.99 | 0.00 |  |
| USA | 4 | 5 | 1274 | 217 | .105 | 0.03 | 0.18 |  |  | 0.40 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.05 | 0.21 |  |  |  |
| Both | 21 | 30 | 11737 | 220 | .149 | 0.04 | 0.26 |  |  | 0.72 | 0.25 |  |
| Male | 1 | 1 | 100 | 100 | -.371 | -0.53 | -0.19 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age\* **(*p*=0.035)** |  |  |  |  |  |  |  | 0.00 | 0.71 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 8 | 13 | 6663 | 215 | .276 | 0.11 | 0.43 |  |  | 0.98 | 0.00 |  |
| Adolescents | 14 | 18 | 5174 | 210 | .036 | -0.09 | 0.16 |  |  | 0.32 | 0.62 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 21 | 30 | 11544 | 210 | .129 | 0.01 | 0.25 |  |  | 0.69 | 0.29 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| External Regulation – Amotivation | 52 | 81 | 35238 | 250 | .576 | 0.50 | 0.65 |  |  | 0.23 | 0.76 | 5116.771 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.03 |  |  |  |
| Individualistic | 31 | 37 | 15634 | 228 | .593 | 0.50 | 0.67 |  |  | 0.21 | 0.77 |  |
| Collectivistic | 19 | 41 | 19216 | 296 | .564 | 0.41 | 0.69 |  |  | 0.20 | 0.79 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| UK | 10 | 11 | 5198 | 251 | .585 | 0.43 | 0.71 |  |  | 0.00 | 0.98 |  |
| USA | 6 | 7 | 2539 | 230 | .629 | 0.50 | 0.73 |  |  | 0.00 | 0.94 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.07 |  |  |  |
| Both | 50 | 78 | 34894 | 262 | .588 | 0.51 | 0.66 |  |  | 0.24 | 0.75 |  |
| Male | 1 | 1 | 100 | 100 | .254 | 0.54 | 0.43 |  |  | 0.50 | 0.50 |  |
| Female | 1 | 2 | 244 | 122 | .168 | 0.03 | 0.30 |  |  | 0.16 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 1 | 1 | 1073 | 1073 | .711 | 0.68 | 0.74 |  |  | 0.50 | 0.50 |  |
| Preadolescents | 28 | 52 | 18869 | 235 | .571 | 0.46 | 0.66 |  |  | 0.24 | 0.74 |  |
| Adolescents | 24 | 28 | 15296 | 276 | .579 | 0.46 | 0.68 |  |  | 0.25 | 0.74 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 51 | 80 | 34945 | 250 | .578 | 0.50 | 0.65 |  |  | 0.23 | 0.76 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| External Regulation – Adaptive Outcomes | 65 | 157 | 69410 | 251 | -.073 | -0.15 | 0.01 |  |  | 0.13 | 0.85 | 8237.723 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.04 |  |  |  |
| Individualistic | 38 | 91 | 37649 | 266 | -.120 | -0.20 | -0.04 |  |  | 0.18 | 0.79 |  |
| Collectivistic | 26 | 61 | 31041 | 247 | -.002 | -0.16 | 0.15 |  |  | 0.11 | 0.88 |  |
| Country |  |  |  |  |  |  |  | 0.00 | 0.07 |  |  |  |
| UK | 9 | 27 | 12644 | 310 | -.241 | -0.32 | -0.16 |  |  | 0.37 | 0.53 |  |
| USA | 12 | 27 | 7668 | 227 | -.132 | -0.23 | -0.03 |  |  | 0.11 | 0.78 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 60 | 147 | 67265 | 269 | -.073 | -0.15 | 0.01 |  |  | 0.14 | 0.84 |  |
| Male | 4 | 7 | 1112 | 101 | .089 | -0.13 | 0.30 |  |  | 0.00 | 0.85 |  |
| Female | 3 | 3 | 1033 | 321 | -.054 | -0.57 | 0.50 |  |  | 0.49 | 0.49 |  |
| Age |  |  |  |  |  |  |  | 0.03 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 458 | -.138 | -0.39 | 0.13 |  |  | 0.47 | 0.47 |  |
| Preadolescents | 34 | 84 | 32199 | 244 | -.113 | -0.21 | -0.02 |  |  | 0.12 | 0.85 |  |
| Adolescents | 31 | 71 | 35847 | 258 | -.048 | -0.18 | 0.08 |  |  | 0.13 | 0.86 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Low Risk of Bias | 64 | 156 | 69117 | 251 | -.069 | -0.15 | 0.01 |  |  | 0.13 | 0.85 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| External Regulation – Maladaptive Outcomes | 29 | 39 | 17129 | 231 | .251 | 0.17 | 0.33 |  |  | 0.62 | 0.34 | 1443.061 |
| Culture |  |  |  |  |  |  |  | 0.13 | 0.00 |  |  |  |
| Individualistic | 17 | 22 | 7533 | 262 | .290 | 0.21 | 0.37 |  |  | 0.29 | 0.62 |  |
| Collectivistic | 12 | 17 | 9596 | 201 | .220 | 0.01 | 0.41 |  |  | 0.98 | 0.00 |  |
| Country |  |  |  |  |  |  |  | 0.08 | 0.11 |  |  |  |
| UK | 4 | 6 | 3288 | 509 | .408 | 0.27 | 0.53 |  |  | 0.60 | 0.32 |  |
| USA | 6 | 7 | 1787 | 224 | .200 | 0.14 | 0.25 |  |  | 0.30 | 0.00 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Both | 28 | 38 | 17029 | 240 | .254 | 0.17 | 0.33 |  |  | 0.61 | 0.35 |  |
| Male | 1 | 1 | 100 | 100 | .149 | -0.45 | 0.34 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.27 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 10 | 15 | 7176 | 218 | .299 | 0.20 | 0.40 |  |  | 0.95 | 0.00 |  |
| Adolescents | 19 | 24 | 9953 | 241 | .231 | 0.11 | 0.35 |  |  | 0.00 | 0.97 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 28 | 38 | 16836 | 230 | .250 | 0.17 | 0.33 |  |  | 0.60 | 0.36 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Amotivation – Adaptive Outcomes | 63 | 187 | 91785 | 280 | -.369 | -0.42 | -0.31 |  |  | 0.62 | 0.36 | 7598.631 |
| Culture |  |  |  |  |  |  |  | 0.00 | 0.06 |  |  |  |
| Individualistic | 37 | 110 | 48501 | 291 | -.394 | -0.45 | -0.34 |  |  | 0.79 | 0.18 |  |
| Collectivistic | 25 | 72 | 42564 | 282 | -.345 | -0.44 | -0.24 |  |  | 0.49 | 0.50 |  |
| Country |  |  |  |  |  |  |  | 0.01 | 0.01 |  |  |  |
| UK | 11 | 44 | 21132 | 362 | -.403 | -0.51 | -0.28 |  |  | 0.93 | 0.04 |  |
| USA | 10 | 38 | 13176 | 259 | -.302 | -0.43 | -0.16 |  |  | 0.43 | 0.53 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 60 | 173 | 88025 | 311 | -.364 | -0.42 | -0.31 |  |  | 0.59 | 0.38 |  |
| Male | 4 | 10 | 3132 | 116 | -.480 | -0.67 | -0.23 |  |  | 0.91 | 0.00 |  |
| Female | 1 | 4 | 628 | 157 | -.300 | -0.37 | -0.23 |  |  | 0.00 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.05 | 0.00 |  |  |  |
| Children | 2 | 2 | 1364 | 458 | -.240 | -0.52 | 0.09 |  |  | 0.48 | 0.48 |  |
| Preadolescents | 29 | 92 | 44776 | 303 | -.327 | -0.39 | -0.26 |  |  | 0.97 | 0.00 |  |
| Adolescents | 34 | 93 | 45645 | 258 | -.427 | -0.50 | -0.34 |  |  | 0.36 | 0.62 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.01 |  |  |  |
| Low Risk of Bias | 62 | 186 | 91492 | 280 | -.366 | -0.42 | -0.31 |  |  | 0.62 | 0.36 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Amotivation – Maladaptive Outcomes | 30 | 46 | 22688 | 266 | .450 | 0.34 | 0.55 |  |  | 0.27 | 0.71 | 2211.101 |
| Culture |  |  |  |  |  |  |  | 0.01 | 0.06 |  |  |  |
| Individualistic | 17 | 30 | 12801 | 322 | .389 | 0.23 | 0.53 |  |  | 0.22 | 0.77 |  |
| Collectivistic | 13 | 16 | 9887 | 201 | .519 | 0.40 | 0.63 |  |  | 0.57 | 0.41 |  |
| Country |  |  |  |  |  |  |  | 0.05 | 0.37 |  |  |  |
| UK | 5 | 14 | 7368 | 509 | .591 | 0.41 | 0.73 |  |  | 0.42 | 0.53 |  |
| USA | 3 | 4 | 805 | 182 | -.087 | -0.52 | 0.38 |  |  | 0.00 | 0.97 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.08 |  |  |  |
| Both | 29 | 45 | 22588 | 276 | .438 | 0.33 | 0.53 |  |  | 0.28 | 0.70 |  |
| Male | 1 | 1 | 100 | 100 | .757 | 0.66 | 0.83 |  |  | 0.50 | 0.50 |  |
| Female | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Age |  |  |  |  |  |  |  | 0.09 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescent | 10 | 22 | 12041 | 286 | .380 | 0.13 | 0.59 |  |  | 0.18 | 0.81 |  |
| Adolescents | 20 | 24 | 10647 | 250 | .481 | 0.38 | 0.58 |  |  | 0.35 | 0.62 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 29 | 45 | 22395 | 266 | .450 | 0.34 | 0.55 |  |  | 0.26 | 0.72 |  |
| High Risk of Bias | 1 | 1 | 293 | 293 | - | - | - |  |  | - | - |  |
| Adaptive Outcomes – Maladaptive Outcomes | 53 | 231 | 109262 | 302 | -.212 | -0.33 | -0.09 |  |  | 0.43 | 0.56 | 22247.34 |
| Culture |  |  |  |  |  |  |  | 0.01 | 0.00 |  |  |  |
| Individualistic | 28 | 121 | 52673 | 352 | -.173 | -0.35 | 0.01 |  |  | 0.26 | 0.73 |  |
| Collectivistic | 25 | 110 | 56589 | 261 | -.236 | -0.40 | -0.06 |  |  | 0.56 | 0.43 |  |
| Sex |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Both | 49 | 219 | 106140 | 313 | -.202 | -0.33 | -0.07 |  |  | 0.42 | 0.57 |  |
| Male | 3 | 6 | 1314 | 138 | -.388 | -0.67 | -0.01 |  |  | 0.63 | 0.32 |  |
| Female | 2 | 6 | 1808 | 255 | -.290 | -0.37 | -0.21 |  |  | 0.73 | 0.00 |  |
| Age |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Children | 0 | 0 | - | - | - | - | - |  |  | - | - |  |
| Preadolescents | 26 | 126 | 61254 | 325 | -.191 | -0.32 | -0.06 |  |  | 0.46 | 0.53 |  |
| Adolescents | 27 | 105 | 48008 | 278 | -.230 | -0.42 | -0.02 |  |  | 0.43 | 0.56 |  |
| Risk of Bias |  |  |  |  |  |  |  | 0.00 | 0.00 |  |  |  |
| Low Risk of Bias | 51 | 226 | 105069 | 298 | -.212 | -0.33 | -0.09 |  |  | 0.43 | 0.56 |  |
| High Risk of Bias | 2 | 5 | 4193 | 665 | -.269 | -0.64 | -0.20 |  |  | 0.02 | 0.97 |  |