**Supplemental Digital Content3 Tables S1-3**

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| Table S1. Re-specified model fit in 6th and 7th grades | | | |  |  | |
| **Scale/Sample** | **χ2** | **df** | **p-value** | **CFI** | **RMSEA (90% CI)** | **SRMR** |
|  |  |  |  |  |  |  |
| 6th grade | 269.5 | 137 | < .001 | 0.946 | 0.050 (0.041 - 0.058) | 0.047 |
| Boys n=193 | 279.6 | 137 | <.001 | 0.915 | 0.073 (0.061 - 0.086) | 0.058 |
| Girls n=205 | 200.2 | 137 | <.001 | 0.954 | 0.048 (0.032 - 0.061) | 0.051 |
| Overweight n=202 | 269.4 | 137 | <.001 | 0.910 | 0.069 (0.057 - 0.081) | 0.063 |
| Normal weight n=196 | 265.7 | 137 | <.001 | 0.912 | 0.070 (0.057 - 0.082) | 0.054 |
| non-Hispanic black n=176 | 235.6 | 137 | <.001 | 0.935 | 0.064 (0.050 - 0.078) | 0.057 |
| non-Hispanic white n= 116 | 265.0 | 137 | <.001 | 0.905 | 0.087 (0.070 - 0.103) | 0.056 |
|  | |  |  |  |  |  |
| 7th grade | 328.1 | 137 | < .001 | 0.955 | 0.048 (0.041 - 0.055) | 0.039 |
| Boys n=281 | 251.9 | 137 | <.001 | 0.930 | 0.055 (0.044 - 0.065) | 0.052 |
| Girls n=325 | 240.5 | 137 | <.001 | 0.955 | 0.048 (0.038 - 0.058) | 0.044 |
| Overweight n=268 | 244.9 | 137 | <.001 | 0.941 | 0.054 (0.043 - 0.065) | 0.050 |
| Normal weight n=338 | 260.2 | 137 | <.001 | 0.944 | 0.052 (0.042 - 0.061) | 0.045 |
| non-Hispanic black n=218 | 225.1 | 137 | <.001 | 0.935 | 0.054 (0.041 - 0.067) | 0.051 |
| non-Hispanic white n= 227 | 223.9 | 137 | <.001 | 0.943 | 0.053 (0.040 - 0.065) | 0.051 |

Table S2. Correlations (95% CI) between the latent measures of behavioral regulation, self-schema, and intrinsic motives among 6th grade students (N=398). Convergent relations (autonomous and controlled) are shaded dark gray. Discriminant relations are shaded light gray. Numbers in brackets specify the hypothesized relations for convergent [1, 2 and 5] and discriminant [3 and 4] analysis. Relations were not specified between identified and introjected regulation, which were an adjacent pair of autonomous and controlled motivation.

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|  | Amotivation | External regulation | Introjected regulation | Identified regulation | | | Integrated regulation | Intrinsic motivation | | |
| External motivation | .793(.726, .860)  [2] |  |  |  | | |  |  | | |
| Introjected regulation | .409 (.346, .472)  [4] | .652 (.567, .737)  [2] |  | |  | |  | |  | |
| Identified regulation | -.032(-.073, .009)  [3] | .271 (.214, .328)  [4] | .600 (.512, .688) | |  |  | | |  |
| Integrated regulation | .057 (-.061, .175)  [3] | .317 (.231, .404)  [4] | .526(.471, .581) | .887 (.842, .932)  [5] | | |  |  | | |
| Intrinsic motivation | -.141 (-.216, -.066)  [3] | .130 (.059, .201)  [3] | .412 (.341, .483)  [4] | .847 (.731, .963)  [5] | | | .855 (.765, .945)  [5] |  | | |
| Self-schema | -.046 (-.170, .078)  [3] | .066 (-.001, .133)  [3] | .220 (.155, .285)  [4] | .480 (.397, .563)  [1] | | | .580 (.490, .670)  [1] | .584 (.478, .690)  [1] | | |

Table S3. Correlations (95% CI) between the latent measures of behavioral regulation, self-schema, and intrinsic motives among 7th grade students (N=606). Convergent relations (autonomous and controlled) are shaded dark gray. Discriminant relations are shaded light gray. Numbers in brackets specify the hypothesized relations for convergent [1, 2 and 5] and discriminant [3 and 4] analysis. Relations were not specified between identified and introjected regulation, which were an adjacent pair of autonomous and controlled motivation.

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|  | Amotivation | External regulation | Introjected regulation | | Identified regulation | Integrated regulation | Intrinsic motivation | | |
| External regulation | .680(.562, .798 )  [2] |  |  | |  |  |  | | |
| Introjected regulation | .282 (.119, .445)  [4] | .611 (.538, .684)  [2] |  |  | |  | |  | |
| Identified regulation | -.208(-.385, -.031)  [3] | .107 (.023, .191)  [4] | .496 (.410, .582) | |  |  | | |  | |
| Integrated regulation | -.014 (-.197, .169)  [3] | .226 (.128, .324)  [4] | .520(.449, .591) | | .775 (.722, .828)  [5] |  | | |  |
| Intrinsic motivation | -.253 (-.396, -.110)  [3] | -.044 (-.160, .072)  [3] | .227 (.103, .351)  [4] | | .721 (.666, .776)  [5] | .819 (.729, .909)  [5] | | |  |
| Self-schema | -.163 (-.340, .014 )  [3] | .007 (-.134, .148)  [3] | .169 (.024, .314)  [4] | | .561 (.445, .677)  [1] | .652 (.560, .744)  [1] | | | .657 (.580, .734)  [1] |