Supplementary Material

Table S4 Beta coefficients with bootstrap confidence intervals for paths between aggregated learner-state variables, pre-, and post-test MMA

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| Paths | β | 95 % Bootstrap CI |
| Pre-test MMA → Post-test MMA | .45\*\*\* | [.267; .612] |
| Pre-test MMA → Enjoyment | .17 | [-.011; .345] |
| Pre-test MMA → Boredom | -.21\* | [-.384; -.038] |
| Pre-test MMA → Frustration | -.01 | [-.205; .172] |
| Pre-test MMA → Self-monitoring | .11 | [-.077; .295] |
| Enjoyment → Post-test MMA | -.05 | [-.215; .108] |
| Boredom → Post-test MMA | -.17\* | [-.326; -.021] |
| Boredom → Self-monitoring | -.05 | [-.243; .134] |
| Frustration → Post-test MMA | .04 | [-.135; .225] |
| Frustration → Self-monitoring | -.21\* | [-.374; -.030] |
| Self-monitoring → Post-test MMA | .17\* | [.005; .323] |
| Self-monitoring → Enjoyment | .07 | [-.118; .235] |

*Note.* MMA = mental model accuracy. *n* =108*. \* p* < .05*. \*\* p* < .01*. \*\*\* p* < *.*001.