

## Supplementary Material

### Supplemental Table 1

*Fit indices for latent growth curve models*

| <b>Model</b>              | <b>L-h</b> | <b>AIC</b> | <b>BIC</b> | $\chi^2$ | <b>df</b> | $\chi^2/\text{df}$ | <b>p</b> | <b>RMSEA<br/>[90%CI]</b> | <b>CFI</b> | <b>TLI</b> | <b>SRMR</b> |
|---------------------------|------------|------------|------------|----------|-----------|--------------------|----------|--------------------------|------------|------------|-------------|
| Intercept                 | -5003.24   | 10050.48   | 10129.06   | 3823.51  | 208       | 18.38              | .000     | .257<br>[.252, .262]     | .332       | .389       | 2.02        |
| Linear                    | -2602.23   | 5254.46    | 5343.76    | 1121.44  | 205       | 5.47               | .000     | .130<br>[.125, .136]     | .831       | .843       | .211        |
| Logarithmic               | -2196.28   | 4450.57    | 4554.16    | 652.97   | 201       | 3.24               | .000     | .092<br>[.087, .098]     | .916       | .921       | .06         |
| Cond. Log:<br>Spacing     | -2048.65   | 4185.31    | 4339       | 817.28   | 286       | 2.86               | .000     | .087<br>[.082, .09]      | .916       | .915       | .051        |
| Cond. Log:<br>Consistency | -2048.15   | 4184.3     | 4338       | 817.11   | 286       | 2.85               | .000     | .087<br>[.082, .093]     | .916       | .915       | .051        |

*Note.* Loglikelihood, AIC, BIC, chi-square test of fit with corresponding p-values, and fit indices are presented per model.

**Supplemental Table 2**

*Intercepts (means), variances and covariances of latent variables in latent growth curve models*

| <b>Model</b>                           | <b><u>Intercept</u></b>            |                                      | <b><u>Slope</u></b>                |                                      | <b><u>Logarithmic</u></b>          |                                      |
|--|------------------------------------|--------------------------------------|------------------------------------|--------------------------------------|------------------------------------|--------------------------------------|
|  | <b>Mean (SE), <i>p</i></b>         | <b>SD<sup>2</sup> (SE), <i>p</i></b> | <b>Mean (SE), <i>p</i></b>         | <b>SD<sup>2</sup> (SE), <i>p</i></b> | <b>Mean (SE), <i>p</i></b>         | <b>SD<sup>2</sup> (SE), <i>p</i></b> |
| Unconditional<br>Logarithmic           | 2.25<br>(0.02),<br><i>p</i> < .001 | 0.06<br>(0.01),<br><i>p</i> < .001   | 0.04<br>(0.01),<br><i>p</i> < .001 | 0.01<br>(0.00),<br><i>p</i> < .001   | 0.15<br>(0.16),<br><i>p</i> < .001 | 0.05<br>(0.01),<br><i>p</i> < .001   |
| Conditional<br>Logarithmic:<br>Spacing | 2.24<br>(0.11),<br><i>p</i> = .327 | 0.03<br>(0.01),<br><i>p</i> < .001   | 0.04<br>(0.05),<br><i>p</i> = .327 | 0.01<br>(0.00),<br><i>p</i> < .001   | 0.68<br>(0.42),<br><i>p</i> = .105 | 0.52<br>(0.1),<br><i>p</i> < .001    |
| Conditional<br>Logarithmic:<br>Spacing | 2.43<br>(0.11),<br><i>p</i> < .001 | 0.03<br>(0.01),<br><i>p</i> < .001   | 0.05<br>(0.05),<br><i>p</i> = .320 | 0.01<br>(0.00),<br><i>p</i> < .001   | 0.69<br>(0.43),<br><i>p</i> = .105 | 10.52<br>(0.1),<br><i>p</i> < .001   |

**Note.** Estimates, standard errors, and p-values for means and variances of latent variables (i.e., intercept, slope, and logarithmic asymptote) are presented across unconditional logarithmic and conditional logarithmic (i.e., spacing and consistency) models.

*Covariances of latent variables in latent growth curve models*

| <b>Model</b>                           | <b><u>Intercept - Slope</u></b>    | <b><u>Intercept - Logarithmic</u></b> | <b><u>Slope - Logarithmic</u></b>   |
|--|------------------------------------|---------------------------------------|-------------------------------------|
|  | <b>Estimate (SE), <i>p</i></b>     | <b>Estimate (SE), <i>p</i></b>        | <b>Estimate (SE), <i>p</i></b>      |
| Unconditional<br>Logarithmic           | 0.00<br>(0.00),<br><i>p</i> = .608 | 0.03,<br>(0.01),<br><i>p</i> < .001   | -0.01<br>(0.00),<br><i>p</i> = .006 |
| Conditional<br>Logarithmic:<br>Spacing | 0.00<br>(0.00),<br><i>p</i> = .132 | 0.06,<br>(0.02),<br><i>p</i> = .002   | -0.03<br>(0.01),<br><i>p</i> = .001 |
| Conditional<br>Logarithmic:<br>Spacing | 0.00<br>(0.00),<br><i>p</i> = .133 | 0.06,<br>(0.02),<br><i>p</i> = .002   | -0.03<br>(0.01),<br><i>p</i> = .001 |

**Note.** Estimates, standard errors, and p-values for the covariance between latent across unconditional logarithmic and conditional logarithmic (i.e., spacing and consistency) models.