Supplementary material D: ANCOVA tables, longitudinal dataset

**Anova table for grade 1 longitudinal dataset for word decoding (n = 10878).**

| Effect                        | df          | MSE    | F       | ges     | p.value |
|-------------------------------|-------------|--------|---------|---------|---------|
| Academic year                 | 3, 10871    | 1186.37| 19.71 ***| .005    | <.001   |
| Socioeconomic Index           | 1, 10871    | 1186.37| 174.34 ***| .014    | <.001   |
| SSL                           | 1, 10871    | 1186.37| 70.99 ***| .006    | <.001   |
| Gender                        | 1, 10871    | 1186.37| 3.93 *  | <.001   | .047    |
| Test period                   | 1.70, 18484.03 | 86.60 | 9836.12 ***| .091    | <.001   |
| Academic year:Test period     | 5.10, 18484.03 | 86.60 | 26.26 ***| <.001   | <.001   |
| Socioeconomic Index:Test period | 1.70, 18484.03 | 86.60 | 25.19 ***| <.001   | <.001   |
| SSL:Test period               | 1.70, 18484.03 | 86.60 | 3.08 +  | <.001   | .054    |
| Gender:Test period            | 1.70, 18484.03 | 86.60 | 22.41 ***| <.001   | <.001   |

**Anova table for grade 1 longitudinal dataset for reading comprehension (n = 10878).**

| Effect                        | df          | MSE    | F       | ges     | p.value |
|-------------------------------|-------------|--------|---------|---------|---------|
| Academic year                 | 3, 10871    | 19.56  | 42.07 ***| .009    | <.001   |
| Socioeconomic Index           | 1, 10871    | 19.56  | 280.89 ***| .019    | <.001   |
| SSL                           | 1, 10871    | 19.56  | 351.32 ***| .024    | <.001   |
| Gender                        | 1, 10871    | 19.56  | 98.16 ***| .007    | <.001   |
| Test period                   | 1.86, 20234.26 | 3.44  | 4342.03 ***| .090    | <.001   |
| Academic year:Test period     | 5.58, 20234.26 | 3.44  | 25.34 ***| .002    | <.001   |
| Socioeconomic Index:Test period | 1.86, 20234.26 | 3.44  | 25.36 ***| <.001   | <.001   |
| SSL:Test period               | 1.86, 20234.26 | 3.44  | 37.82 ***| <.001   | <.001   |
| Gender:Test period            | 1.86, 20234.26 | 3.44  | 6.46 **  | <.001   | .002    |
Anova table for grade 2 longitudinal dataset for word decoding (n = 19945).

| Effect                              | df       | MSE    | F       | ges  | p.value |
|-------------------------------------|----------|--------|---------|------|---------|
| Academic year                       | 3, 19938 | 1349.02| 5.77 ***| <.001| <.001   |
| Socioeconomic Index                 | 1, 19938 | 1349.02| 209.65 ***| .009 | <.001   |
| SSL                                | 1, 19938 | 1349.02| 311.75 ***| .014 | <.001   |
| Gender                             | 1, 19938 | 1349.02| 20.69 ***| <.001| <.001   |
| Test period                         | 1.86, 37169.23 | 71.22 | 15342.42 ***| .065 | <.001   |
| Academic year:Test period           | 5.59, 37169.23 | 71.22 | 2.51 * | <.001| .023    |
| Socioeconomic Index:Test period     | 1.86, 37169.23 | 71.22 | 8.34 ***| <.001| <.001   |
| SSL:Test period                     | 1.86, 37169.23 | 71.22 | 54.20 ***| <.001| <.001   |
| Gender:Test period                  | 1.86, 37169.23 | 71.22 | 0.54  | <.001| .568    |

Anova table for grade 2 longitudinal dataset for reading comprehension (n = 19945).

| Effect                              | df       | MSE    | F       | ges  | p.value |
|-------------------------------------|----------|--------|---------|------|---------|
| Academic year                       | 3, 19938 | 33.81  | 10.96 ***| .001 | <.001   |
| Socioeconomic Index                 | 1, 19938 | 33.81  | 449.73 ***| .018 | <.001   |
| SSL                                | 1, 19938 | 33.81  | 932.69 ***| .036 | <.001   |
| Gender                             | 1, 19938 | 33.81  | 186.57 ***| .007 | <.001   |
| Test period                         | 1.92, 38372.43 | 4.30 | 6904.10 ***| .064 | <.001   |
| Academic year:Test period           | 5.77, 38372.43 | 4.30 | 4.46 ***| <.001| <.001   |
| Socioeconomic Index:Test period     | 1.92, 38372.43 | 4.30 | 11.50 ***| <.001| <.001   |
| SSL:Test period                     | 1.92, 38372.43 | 4.30 | 60.73 ***| <.001| <.001   |
| Gender:Test period                  | 1.92, 38372.43 | 4.30 | 23.16 ***| <.001| <.001   |
### Anova table for grade 3 longitudinal dataset for word decoding (n = 11656).

| Effect                                | df          | MSE      | F        | ges   | p.value |
|----------------------------------------|-------------|----------|----------|-------|---------|
| Academic year                          | 3, 11649    | 1281.99  | 3.02 *   | <.001 | .029    |
| Socioeconomic Index                    | 1, 11649    | 1281.99  | 142.64 *** | .011  | <.001   |
| SSL                                    | 1, 11649    | 1281.99  | 131.74 *** | .010  | <.001   |
| Gender                                 | 1, 11649    | 1281.99  | 0.20     | <.001 | .652    |
| Test period                            | 1.93, 22429.72 | 68.25 | 4324.19 *** | .033  | <.001   |
| Academic year:Test period              | 5.78, 22429.72 | 68.25 | 9.43 *** | <.001 | <.001   |
| Socioeconomic Index:Test period        | 1.93, 22429.72 | 68.25 | 0.10     | <.001 | .895    |
| SSL:Test period                        | 1.93, 22429.72 | 68.25 | 29.31 *** | <.001 | <.001   |
| Gender:Test period                     | 1.93, 22429.72 | 68.25 | 1.08     | <.001 | .338    |

### Anova table for grade 3 longitudinal dataset for reading comprehension (n = 11656).

| Effect                                | df          | MSE      | F        | ges   | p.value |
|----------------------------------------|-------------|----------|----------|-------|---------|
| Academic year                          | 3, 11649    | 29.23    | 10.43 *** | .002  | <.001   |
| Socioeconomic Index                    | 1, 11649    | 29.23    | 314.59 *** | .022  | <.001   |
| SSL                                    | 1, 11649    | 29.23    | 983.11 *** | .064  | <.001   |
| Gender                                 | 1, 11649    | 29.23    | 207.07 *** | .014  | <.001   |
| Test period                            | 1.91, 22196.65 | 3.48 | 2154.45 *** | .033  | <.001   |
| Academic year:Test period              | 5.72, 22196.65 | 3.48 | 3.82 ** | <.001 | .001    |
| Socioeconomic Index:Test period        | 1.91, 22196.65 | 3.48 | 0.54    | <.001 | .573    |
| SSL:Test period                        | 1.91, 22196.65 | 3.48 | 2.51 +  | <.001 | .084    |
| Gender:Test period                     | 1.91, 22196.65 | 3.48 | 1.08    | <.001 | .337    |