**Supplementary Table 1**. Performance during the familiarization phase of statistical learning.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Auditory SL | | Visual SL | |
| Mean (SD) | Mean RT (ms) | Hit rate | Mean RT (ms) | Hit rate |
| DD | 400.3 (102.6) | 0.51 (0.20) | 475.4 (70.8) | 0.96 (0.06) |
| TYP | 372.8 (88.76) | 0.53 (0.25) | 491.2 (70.1) | 0.99 (0.03) |

**Supplementary Table 2**. Demographic information.

|  |  |  |
| --- | --- | --- |
|  | DD (N=26) | TYP (N=27) |
|  | Frequency (% of total in each group) | |
| History of Reading Delay | 19 (73.1%) | 1 (3.7%) |
| History of Language Delay | 2 (7.7%) | 0 (0.0%) |
| Diagnosis of Dyslexia | 20 (76.9%) | 0 (0.0%) |
| Diagnosis of ADHD | 1 (3.8%) | 1 (3.7%) |
| Racial Groups |  |  |
| White | 22 (84.6%) | 24 (88.9%) |
| Black/African American | 4 (15.4%) | 3 (11.1%) |
| Hispanic | 0 (0.0%) | 1 (3.7%) |
| Income (in dollars per year) |  |  |
| <30k | 6 (24.0%) | 3 (11.5%) |
| 30-60k | 11 (44.0%) | 9 (34.6%) |
| 60-100k | 4 (16.0%) | 3 (11.5%) |
| >100k | 4 (16.0%) | 11 (42.3%) |
| Education |  |  |
| Less than 7th Grade | 0 (0.0%) | 0 (0.0%) |
| Junior High | 0 (0.0%) | 0 (0.0%) |
| High School | 1 (3.8%) | 0 (0.0%) |
| Partial College | 2 (7.7%) | 0 (0.0%) |
| College | 7 (26.9%) | 12 (44.4%) |
| Masters | 14 (53.8%) | 10 (37.0%) |
| Doctorate | 2 (7.7%) | 5 (18.5%) |

**Supplementary Table 3**. Cronbach’s alpha for all tasks.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Procedural Learning** | | | **Statistical Learning** | | | |
|  | Rotary Pursuit | Mirror Tracing - Error | Mirror Tracing - Time | Visual - RT | Visual - Accuracy | Auditory - RT | Auditory - Accuracy |
| Cronbach’s alpha | 0.98 | 0.68 | 0.56 | 0.94 | 0.89 | 0.89 | 0.65 |