**Supplementary Materials**

**Table S1.** Effects of Language Entropy, Accuracy, and Information Access on Test Performance Controlling for L3 Exposure.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *B* | *SE* | *z* | *p* |
| (Intercept) | 1.936 | 0.237 | 8.175 | < .001 |
| L3 exposure | 0.022 | 0.024 | 0.943 | .346 |
| Age | 0.018 | 0.233 | 0.079 | .937 |
| Language entropy | 1.591 | 0.967 | 1.645 | .100 |
| Accuracy a | –2.322 | 0.300 | –7.746 | < .001 |
| Information access b | –1.612 | 0.290 | –5.560 | < .001 |
| Language entropy × Accuracy a | –1.171 | 1.305 | –0.897 | .370 |
| Language entropy × Information access b | –2.993 | 1.247 | –2.400 | .016 |
| Accuracy a × Information access b | 2.200 | 0.386 | 5.696 | < .001 |
| Language entropy × Accuracy a × Information access b | 3.826 | 1.729 | 2.213 | .027 |

*Note. N* = 140. L3 = third language.

a Accurate = 0, inaccurate = 1. b Informed = 0, uninformed = 1.

**Table S2.** Predicting Test Performance by Accuracy, Information Access, and Digit-Span Score.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *B* | *SE* | *z* | *p* |
| (Intercept) | 1.863 | 0.234 | 7.960 | < .001 |
| Age | –0.025 | 0.253 | –0.099 | .921 |
| Digit-span score | 0.109 | 0.161 | 0.678 | .498 |
| Accuracy a | –2.259 | 0.302 | –7.478 | < .001 |
| Information access b | –1.521 | 0.292 | –5.209 | < .001 |
| Digit-span score × Accuracy a | –0.212 | 0.213 | –0.992 | .321 |
| Digit-span score × Information access b | –0.081 | 0.213 | –0.381 | .703 |
| Accuracy a × Information access b | 2.108 | 0.396 | 5.325 | < .001 |
| Digit-span score × Accuracy a × Information access b | 0.202 | 0.280 | 0.720 | .472 |

*Note. N* = 139.

a Accurate = 0, inaccurate = 1. b Informed = 0, uninformed = 1.

**Table S3.** Predicting Test Performance by Accuracy, Information Access, and Day-Night Score.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *B* | *SE* | *z* | *p* |
| (Intercept) | 1.867 | 0.219 | 8.522 | < .001 |
| Age | –0.115 | 0.231 | –0.497 | .619 |
| Day-night score | 0.118 | 0.069 | 1.695 | .090 |
| Accuracy a | –2.220 | 0.273 | –8.141 | < .001 |
| Information access b | –1.538 | 0.277 | –5.544 | < .001 |
| Day-night score × Accuracy a | –0.090 | 0.099 | –0.913 | .361 |
| Day-night score × Information access b | –0.013 | 0.086 | –0.151 | .880 |
| Accuracy a × Information access b | 2.093 | 0.369 | 5.678 | < .001 |
| Day-night score × Accuracy a × Information access b | 0.086 | 0.129 | 0.668 | .504 |

*Note. N* = 138.

a Accurate = 0, inaccurate = 1. b Informed = 0, uninformed = 1.

**Table S4.** Effects of Language Entropy, Accuracy, and Information Access on Test Performance Controlling for Digit-Span Score.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *B* | *SE* | *z* | *p* |
| (Intercept) | 1.952 | 0.240 | 8.146 | < .001 |
| Age | 0.011 | 0.246 | 0.043 | .966 |
| Digit-span score | 0.002 | 0.069 | 0.032 | .974 |
| Language entropy | 1.589 | 0.977 | 1.626 | .104 |
| Accuracy a | –2.336 | 0.305 | –7.669 | < .001 |
| Information access b | –1.626 | 0.294 | –5.535 | < .001 |
| Language entropy × Accuracy a | –1.135 | 1.318 | –0.861 | .389 |
| Language entropy × Information access b | –2.969 | 1.262 | –2.353 | .019 |
| Accuracy a × Information access b | 2.174 | 0.395 | 5.503 | < .001 |
| Language entropy × Accuracy a × Information access b | 3.981 | 1.790 | 2.224 | .026 |

*Note. N* = 139.

a Accurate = 0, inaccurate = 1. b Informed = 0, uninformed = 1.

**Table S5.** Effects of Language Group, Accuracy, and Information Access on Test Performance Controlling for Day-Night Score.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | *B* | *SE* | *z* | *p* |
| (Intercept) | 1.953 | 0.233 | 8.387 | < .001 |
| Age | –0.073 | 0.233 | –0.316 | .752 |
| Day-night score | 0.087 | 0.032 | 2.723 | .006 |
| Language entropy | 1.516 | 0.947 | 1.601 | .109 |
| Accuracy a | –2.347 | 0.294 | –7.993 | < .001 |
| Information access b | –1.663 | 0.286 | –5.823 | < .001 |
| Language entropy × Accuracy a | –1.179 | 1.273 | –0.926 | .354 |
| Language entropy × Information access b | –2.922 | 1.221 | –2.393 | .017 |
| Accuracy a × Information access b | 2.227 | 0.380 | 5.865 | < .001 |
| Language entropy × Accuracy a × Information access b | 4.102 | 1.728 | 2.374 | .018 |

*Note. N* = 138.

a Accurate = 0, inaccurate = 1. b Informed = 0, uninformed = 1.

**Figure S1.** A Picture Used in Exploratory Post-Test Question on Children’s Beliefs About the Uninformed Experimenter’s Perspective.

A person sitting at a table with two boxes

Description automatically generated with medium confidence

*Note*. In the uninformed condition, at the end of the study, children were presented with this picture and asked by the confederate whether they believe that the experimenter could or could not have seen the hidden sticker during the history phase.