Appendix B

Experiment 2 Paragraph-level JOL model results for VSAR

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Type 3 Tests of Fixed Effects** | | | | | | |
| Effect |  | Num DF | DF | F-value | p-value | Partial Eta Squared |
| Condition |  | 1 | 79 | 9.58 | .003 | .10 |
| VSAR |  | 1 | 79 | 1.94 | .168 | .03 |
| Object X Condition |  | 1 | 79 | 0.05 | .828 | .00 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Regression Coefficients** | | | | | | |
|  |  | Estimate | SE | t-value | p-value | Interpretation |
| Intercept |  | 53.93 | 3.37 | 16.03 | < .001 | Average participant test prediction score was 53.93 percent, in the Text-only condition, for an individual with an average score on the VSAR. |
| Condition | Multimedia | 14.59 | 4.72 | 3.09 | .003 | Average predicted test score was 14.59 percentage points higher in the multimedia condition relative to the Text-only Condition, for an individual with an average score on the VSAR. |
| Condition | Text-only | 0.00 | - | - | - |  |
| VSAR |  | 2.94 | 4.08 | 0.72 | .473 | The slope for VSAR, in the Text-only Condition, is not significant. |
| VSAR X Condition | Multimedia | 1.09 | 5.01 | 0.22 | .828 | The slope for VSAR, in the Multimedia Condition does not differ from the Text-only condition. |
| VSAR X Condition | Text-only | 0.00 | - | - | - |  |

Experiment 2 Paragraph-level JOL model results for SBCSQ

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| --- | --- | --- | --- | --- | --- | --- |
| **Type 3 Tests of Fixed Effects** | | | | | | |
| Effect |  | Num DF | DF | F-value | p-value | Partial Eta Squared |
| Condition |  | 1 | 79 | 7.93 | .006 | .09 |
| SBCSQ |  | 1 | 79 | 0.07 | .793 | .00 |
| Object X Condition |  | 1 | 79 | 0.23 | .632 | .00 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Regression Coefficients** | | | | | | |
|  |  | Estimate | SE | t-value | p-value | Interpretation |
| Intercept |  | 54.40 | 3.30 | 16.50 | < .001 | Average participant test prediction score was 54.40 percent, in the Text-only condition, for an individual with an average score on the SBCSQ. |
| Condition | Multimedia | 13.10 | 4.66 | 2.82 | .006 | Average predicted test score was 13.10 percentage points higher in the multimedia condition relative to the Text-only Condition, for an individual with an average score on the SBCSQ. |
| Condition | Text-only | 0.00 | - | - | - |  |
| SBCSQ |  | -1.78 | 3.69 | -0.48 | .631 | The slope for SBCSQ, in the Text-only Condition, is not significant. |
| SBCSQ X Condition | Multimedia | 2.30 | 4.77 | 0.48 | .632 | The slope for SBCSQ, in the Multimedia Condition does not differ from the Text-only condition. |
| SBCSQ X Condition | Text-only | 0.00 | - | - | - |  |

Experiment 2 Paragraph-level JOL model results for VVLRSR

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| --- | --- | --- | --- | --- | --- | --- |
| **Type 3 Tests of Fixed Effects** | | | | | | |
| Effect |  | Num DF | DF | F-value | p-value | Partial Eta Squared |
| Condition |  | 1 | 79 | 8.01 | .006 | .09 |
| VVLRSR |  | 1 | 79 | 0.29 | .590 | .00 |
| Object X Condition |  | 1 | 79 | 1.17 | .283 | .01 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Regression Coefficients** | | | | | | |
|  |  | Estimate | SE | t-value | p-value | Interpretation |
| Intercept |  | 54.55 | 3.26 | 16.74 | < .001 | Average participant test prediction score was 54.55 percent, in the Text-only condition, for an individual with an average score on the VVLRSR. |
| Condition | Multimedia | 13.05 | 4.61 | 2.83 | .006 | Average predicted test score was 13.05 percentage points higher in the multimedia condition relative to the Text-only Condition, for an individual with an average score on the VVLRSR. |
| Condition | Text-only | 0.00 | - | - | - |  |
| VVLRSR |  | 3.76 | 3.28 | 1.15 | .256 | The slope for VVLRSR, in the Text-only Condition, is not significant. |
| VVLRSR X Condition | Multimedia | -5.02 | 4.64 | -1.08 | .283 | The slope for VVLRSR, in the Multimedia Condition does not differ from the Text-only condition. |
| VVLRSR X Condition | Text-only | 0.00 | - | - | - |  |

Experiment 2 Paragraph-level JOL model results for LSQ

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| **Type 3 Tests of Fixed Effects** | | | | | | |
| Effect |  | Num DF | DF | F-value | p-value | Partial Eta Squared |
| Condition |  | 1 | 79 | 8.51 | .005 | .09 |
| LSQ |  | 1 | 79 | 0.19 | .663 | .00 |
| Object X Condition |  | 1 | 79 | 4.69 | .034 | .05 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Regression Coefficients** | | | | | | |
|  |  | Estimate | SE | t-value | p-value | Interpretation |
| Intercept |  | 53.77 | 3.23 | 16.66 | < .001 | Average participant test prediction score was 53.77 percent, in the Text-only condition, for an individual with an average score on the LSQ. |
| Condition | Multimedia | 13.30 | 4.56 | 2.92 | .005 | Average predicted test score was 13.30 percentage points higher in the multimedia condition relative to the Text-only Condition, for an individual with an average score on the LSQ. |
|  |  |  |  |  |  |  |
| Condition | Text-only | 0.00 | - | - | - |  |
| LSQ |  | -6.02 | 3.48 | -1.73 | .087 | The slope for LSQ, in the Text-only Condition was -6.02. For each point higher in visual learning a participant scored, their judgments went down by 6.02 percentage points in the Text-only Condition. |
| LSQ X Condition | Multimedia | 10.02 | 4.63 | 2.17 | .034 | The slope for LSQ, in the Multimedia Condition was 10.02 points higher than in the Text-only Condition. For each point higher in visual learning a participant scored, their judgments went up by 4.00 percentage points in the Multimedia Condition. |
| LSQ X Condition | Text-only | 0.00 | - | - | - |  |

Experiment 2 Paragraph-level JOL model results for BAML

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|  |  |  |  |  |  |  |
| **Type 3 Tests of Fixed Effects** | | | | | | |
| Effect |  | Num DF | DF | F-value | p-value | Partial Eta Squared |
| Condition |  | 1 | 79 | 8.10 | .006 | .09 |
| BAML |  | 1 | 79 | 0.36 | .552 | .00 |
| Object X Condition |  | 1 | 79 | 0.04 | .836 | .00 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Regression Coefficients** | | | | | | |
|  |  | Estimate | SE | t-value | p-value | Interpretation |
| Intercept |  | 54.51 | 3.29 | 16.56 | < .001 | Average participant test prediction score was 54.51 percent, in the Text-only condition, for an individual with an average score on the BAML. |
| Condition | Multimedia | 13.25 | 4.66 | 2.85 | .006 | Average predicted test score was 13.25 percentage points higher in the multimedia condition relative to the Text-only Condition, for an individual with an average score on the BAML. |
|  |  |  |  |  |  |  |
| Condition | Text-only | 0.00 | - | - | - |  |
| BAML |  | -0.92 | 3.16 | -0.29 | .772 | The slope for BAML, in the Text-only Condition, is not significant. |
| BAML X Condition | Multimedia | -0.98 | 4.71 | -0.21 | .836 | The slope for BAML, in the Multimedia Condition does not differ from the Text-only condition. |
| BAML X Condition | Text-only | 0.00 | - | - | - |  |