Supplemental Materials

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| Table 1. Examining the Role of Words and Items on Learning | | | |
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 0.56 | 0.44 – 0.69 | **<0.001** |
| Word [Fim] | 0.10 | -0.07 – 0.27 | 0.252 |
| Word [Neff] | -0.04 | -0.22 – 0.13 | 0.624 |
| Word [Shoon] | 0.07 | -0.11 – 0.24 | 0.444 |
| Item [O2] | 0.14 | -0.03 – 0.32 | 0.107 |
| Item [O3] | 0.16 | -0.02 – 0.33 | 0.078 |
| Item [O4] | 0.01 | -0.17 – 0.18 | 0.948 |
| Word [Fim] × Item [O2] | -0.10 | -0.34 – 0.15 | 0.444 |
| Word [Neff] × Item [O2] | -0.02 | -0.27 – 0.23 | 0.888 |
| Word [Shoon] × Item [O2] | -0.17 | -0.42 – 0.07 | 0.170 |
| Word [Fim] × Item [O3] | -0.13 | -0.38 – 0.11 | 0.291 |
| Word [Neff] × Item [O3] | 0.08 | -0.17 – 0.32 | 0.542 |
| Word [Shoon] × Item [O3] | -0.10 | -0.39 – 0.18 | 0.477 |
| Word [Fim] × Item [O4] | 0.06 | -0.19 – 0.30 | 0.643 |
| Word [Neff] × Item [O4] | 0.22 | -0.03 – 0.47 | 0.086 |
| Word [Shoon] × Item [O4] | 0.02 | -0.23 – 0.26 | 0.889 |
| **Random Effects** | | | |
| σ2 | 0.04 | | |
| τ00 ID | 0.00 | | |
| ICC | 0.10 | | |
| N ID | 32 | | |
| Observations | 244 | | |
| Marginal R2 / Conditional R2 | 0.090 / 0.185 | | |

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| Table 2. Examining the Role of Speech vs. Song as First Training and Trained vs. Untrained as First Testing Conditions | | | |
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 0.68 | 0.61 – 0.76 | **<0.001** |
| First Condition [Spoken] | 0.01 | -0.09 – 0.11 | 0.893 |
| Testing Condition [Trained] | -0.07 | -0.17 – 0.03 | 0.147 |
| First Condition [Spoken] × Testing Condition [Trained] | 0.04 | -0.10 – 0.18 | 0.611 |
| **Random Effects** | | | |
| σ2 | 0.04 | | |
| τ00 ID | 0.00 | | |
| ICC | 0.10 | | |
| N ID | 32 | | |
| Observations | 244 | | |
| Marginal R2 / Conditional R2 | 0.021 / 0.121 | | |

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| Table 3. A comparison between current at 2021 datasets | | | |
| *Predictors* | *Estimates* | *CI* | *p* |
| (Intercept) | 0.63 | 0.58 – 0.68 | **<0.001** |
| Condition [Speech] | 0.06 | -0.01 – 0.13 | 0.096 |
| Group [2024] | 0.00 | -0.07 – 0.07 | 0.979 |
| Condition [Speech] × Group [2024] | 0.00 | -0.09 – 0.09 | 0.999 |
| **Random Effects** | | | |
| σ2 | 0.05 | | |
| τ00 ID | 0.00 | | |
| ICC | 0.04 | | |
| N ID | 53 | | |
| Observations | 403 | | |
| Marginal R2 / Conditional R2 | 0.017 / 0.059 | | |

Figure 1. A graph of accuracy in Speech versus Song by Testing Condition

