Supplementary Materials A

1. Sample size simulations output plots

1.1. Explicit

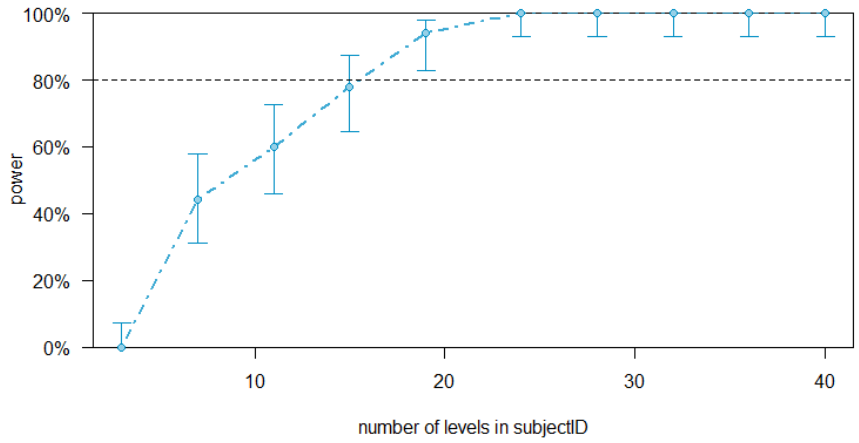

Figure S1: Sample size simulation output using simr"-- a power analysis package for r, designed to interoperate with the lme4 package for LMMs (Bates et al., 2015) based on Maimon et al. (2020, Exp. 1A, brightness session).

1.2. IAT: RTs

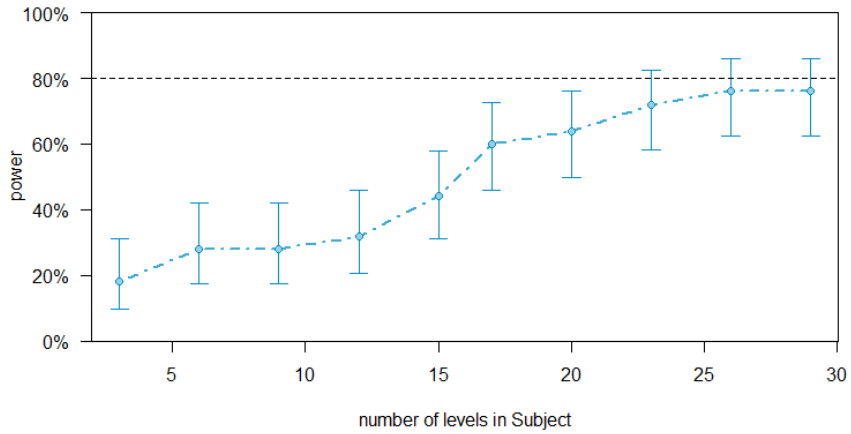

Figure S2: Sample size simulation output using simr"-- a power analysis package for r, designed to interoperate with the lme4 package for LMMs (Bates et al., 2015), based on the data of Maimon et al. (2020, Exp. 2, brightness IAT).

1.3. IAT: accuracy rates

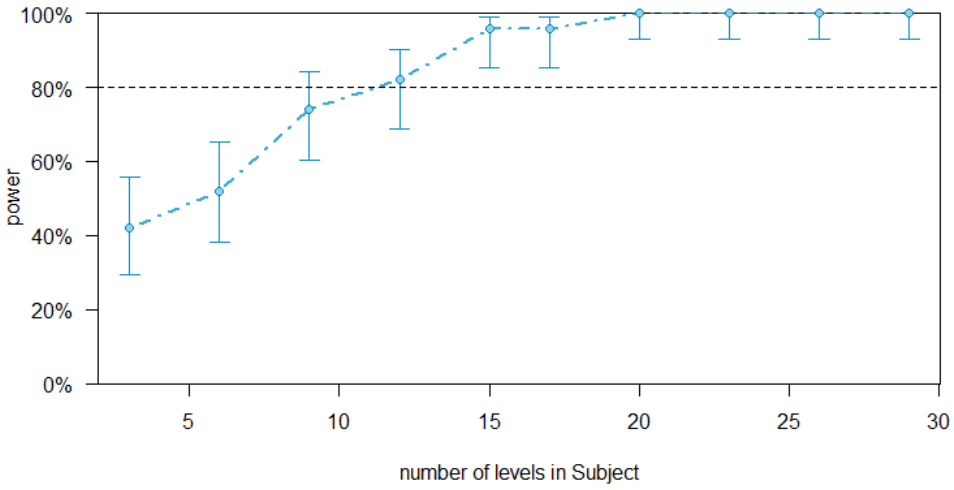

Figure S3: Sample size simulation output using simr"-- a power analysis package for r, designed to interoperate with the lme4 package for LMMs (Bates et al., 2015) based on the data of Maimon et al. (2020, Exp. 2, brightness IAT).

2. Differences between element type, Experiment 2

Key	Probe	RTs	Accuracy rates
C Major	stable	581.89 ±51.54	0.89 ±0.11
	unstable	586.16 ±41.21	0.86 ±0.16
Db Major	stable	582.55 ±46.7	0.88 ±0.11
	unstable	587.98 ±45.32	0.895 ±0.1

The differences between the mean reaction times and accuracy rates of the C major element and the Db major element were not significant (p= 0.56 and p= 0.23 for reaction times and accuracy rates respectively), the difference between the mean reaction times and accuracy rates of two types of probes (i.e., stable and unstable) were not significant (p= 0.206 and p= 0.61 for reaction times and accuracy rates respectively).