

Tables

Condition	First learning phase	Second learning phase
Backwards blocking (experimental)	ABC+	A+
Backwards blocking (control)	ABC+	D+
Indirect screening-off (experimental)	ABC+	A-
Indirect screening-off (control)	ABC+	D-

Table 1. Schematic of the task structure for the backwards blocking and indirect screening-off experimental and control trials.

Condition	First learning phase	Second learning phase
Backwards blocking (experimental)	ABC+	AB+
Backwards blocking (control)	ABC+	DE+
Indirect screening-off (experimental)	ABC+	AB-
Indirect screening-off (control)	ABC+	DE-

Table 2. Schematic of the task structure for the backwards blocking and indirect screening-off experimental and control trials.

(A) Model fit to the data overall							
Experiment 1				Experiment 2			
Connectionist [‡]		Bayesian Model		Connectionist [‡]		Bayesian Model	
RMSE	MAE	RMSE	MAE	RMSE	MAE	RMSE	MAE
.15	.11	.17	.17	.13	.11	.16	.13

(B) Model fit to the backwards blocking data only							
Experiment 1				Experiment 2			
Connectionist [‡]		Bayesian Model		Connectionist [‡]		Bayesian Model	
RMSE	MAE	RMSE	MAE	RMSE	MAE	RMSE	MAE
.19	.16	.20	.18	.13	.11	.15	.14

(C) Model fit to the indirect screening-off data only							
Experiment 1				Experiment 2			
Connectionist [‡]		Bayesian Model		Connectionist		Bayesian Model [‡]	
RMSE	MAE	RMSE	MAE	RMSE	MAE	RMSE	MAE
.08	.07	.18	.16	.11	.11	.12	.03

(D) Model fit to the experimental trials only							
Experiment 1				Experiment 2			
Connectionist		Bayesian Model		Connectionist		Bayesian Model [‡]	
RMSE	MAE	RMSE	MAE	RMSE	MAE	RMSE	MAE
.19	.16	.19	.16	.16	.14	.14	.12

(E) Model fit to the control trials only							
Experiment 1				Experiment 2			
Connectionist [‡]		Bayesian Model		Connectionist [‡]		Bayesian Model	
RMSE	MAE	RMSE	MAE	RMSE	MAE	RMSE	MAE
.10	.08	.20	.17	.11	.09	.17	.17

Table 3. Model fit indices for the various models and instantiations for the data overall and the data for the backwards blocking, indirect screening-off, experimental, and control trials in Experiments 1 and 2 data. [‡] Corresponds to the better fitting overall model based on average RMSE and MAE.