

Appendix Figure A. Experiments 1 - 3 Study Phase Pairs for one participant were comprised of the following paired objects.

Note that objects were counterbalanced across subjects.

Temporal-only pairs



Temporal-plus-semantic pairs



Appendix Figure C. Experiments 1 - 3 Test phase for one participant included all the following objects presented one at a time.

Old objects
Practiced Objects drawn from Temporal-only pairs



Practiced objects drawn from Temporal-plus-semantic pairs



Related objects drawn from Temporal-only pairs



Related objects drawn from Temporal-plus-semantic pairs



Baseline objects drawn from Temporal-only pairs



Baseline objects drawn from Temporal-plus-semantic pairs



New objects
Novel objects were drawn from the same semantic category as the old objects. Here they are presented in accordance with the old objects on the left for reference.



Appendix Figure D. Experiment 4 Study Phase Pairs were comprised of the following paired objects and were present along with the verbal label indicating the scene to which the objects belonged. Note that during the experiment the scene name was presented above the paired objects.



aquarium



birthday party



doctor office



kitchen



barber shop



cafeteria



farm



laboratory



baseball game



circus



garage



museum



bathroom



classroom



golf course



music room



beach



coffee shop



gym



nail salon



bedroom



desert



gymnastics studio



soccer game

Appendix Figure E. Experiment 4 Recognition Practice Phase Pairs were comprised of the following paired objects. In this figure the old object is always in the left for demonstration purposes. The location of the old object (left vs. right) was counterbalanced in the experiment.



aquarium



aquarium



barber shop



barber shop



baseball game



baseball game



bathroom



bathroom



beach



beach



bedroom



bedroom



birthday party



birthday party



cafeteria



cafeteria



circus



circus



doctor office



doctor office



farm



farm



garage



garage

Appendix Figure F. Experiment 4 Test Phase objects were comprised of the following objects and scene labels presented sequentially.

Old objects

New objects

Practiced

Related

Baseline



aquarium



barber shop



baseball game



bathroom



beach



bedroom



doctor office



farm



garage



birthday party



cafeteria



circus



aquarium



barber shop



baseball game



bathroom



beach



bedroom



doctor office



farm



garage



birthday party



cafeteria



circus



classroom



coffee shop



desert



golf course



gym



gymnastics studio



kitchen



laboratory



museum



band room



nail salon



soccer game



classroom



coffee shop



desert



golf course



gym



gymnastics studio



kitchen



laboratory



museum



band room



nail salon



soccer game



aquarium



barber shop



baseball game



bathroom



beach



bedroom



doctor office



farm



garage



birthday party



cafeteria



circus



aquarium



barber shop



baseball game



bathroom



beach



bedroom



doctor office



farm



garage



birthday party



cafeteria



circus



classroom



coffee shop



desert



golf course



gym



gymnastics studio



kitchen



laboratory



museum



music room



nail salon



soccer game



classroom



coffee shop



desert



golf course



gym



gymnastics studio



kitchen



laboratory



museum



music room



nail salon



soccer game