Roome, H., Towse, J. N., & Crespo-Llado, M. M.
Contextual Support for Children's Recall within Working Memory.
Quarterly Journal of Experimental Psychology.

Data variables and explanations

Delayed Cued Recall Data

Age:
1= Year 1
2= Year 3
3= Year 5
4= Adults

Experiment:
1= Experiment 1A
2= Experiment 1B

Mean Preparatory Interval:
Time from recall signal to start of response (correct response)

Mean proportion correct:
Mean number of trials with correct recall

Individual differences

Age:
1= Year 1
2= Year 3
3= Year 5
4= Adults

Experiment:
1= Experiment 1A
2= Experiment 1B

Mean Preparatory Interval:
Time from recall signal to start of response (correct response) - delayed cued recall task

Mean proportion correct:
Mean number of trials with correct recall - delayed cued recall task

Listening span baseline:
Proportion of items correctly recalled

PI (reversed):
Preparatory Interval score (reverse scored)

z score (PI (reversed)):
previous data -PI (reversed)- expressed as z score

z score (Mean proportion correct):
Mean proportion correct on delayed cued recall data - expressed as z score

z score (Listening span baseline):
Proportion of items correctly recalled - expressed as z score

composite (PI and accuracy z score):
Composite data from z scores of “z score (PI (reversed))” and “z score (Mean proportion correct)”

DCR and cued benefit

Age:
1= Year 1
2= Year 3
3= Year 5
4= Adults

Condition:
1= No cue
2= Sentence cue
3= Word cue

Mean Preparatory Interval:
Time from recall signal to start of response (correct response) - delayed cued recall task

Mean proportion correct:
Mean number of trials with correct recall - delayed cued recall task

Listening span baseline:
Proportion of listening span items correctly recalled

Cued benefit:
Proportion of cues that generated correct TBR item

Reverse score (Mean Preparatory Interval):
Preparatory Interval score (reverse scored)

Reverse score (cued benefit);
Cued benefit score (reverse scored)

z score Mean proportion correct:
Mean number of delayed cure recall trials with correct recall - expressed as a z score

z score Listening span baseline:
Proportion of listening span items correctly recalled = expressed as a z score

z score (Reverse score (Mean Preparatory Interval)):
Preparatory Interval score (reverse scored) - expressed as a z score

z score (Reverse score (cued benefit)):
Cued benefit score (reverse scored) - expressed as a z-score

z score composite delayed cued recall:
Composite data from z scores of delayed cued recall PI and proportion correct, each of these in z score form

Cued listening span

Age:
1= Year 1
2= Year 3
3= Year 5
4= Adults

Condition:
1= No cue
2= Sentence cue
3= Word cue
4= Regeneration

Experiment:
1= Experiment 1A
2= Experiment 1B

Listening span baseline:
Proportion of listening span items correctly recalled

Proportion of correct recalls after cues:
Proportion of listening span recalls after baseline and cue administration

Cued benefit:
Proportion of correct recalls after cues - baseline

Number of cues administered:
Total number of cues given to participant

Number of successful cues:
Number of cues that successfully triggered TBR item

Proportion of cues that triggered TBR:
Number of cues triggering TBR item / total number of cues

Cued listening span trial-level

PPT ID
Codes for participants, can be used to identify trial level data files (zipped)

Age:
1= Year 1
2= Year 3
3= Year 5
4= Adults

Condition:
1= No cue
2= Sentence cue
3= Word cue
4= Regeneration

LL2 W/OUT CUES
List length 2 data, prior to any cue administration
T1-T2-T3
Correctly recalled items for trial 1 (T1) trial 2 (T2) and trial 3 (T3)

LL2 W/ CUES
List length 2 data, following relevant cue administration
T1-T2-T3
Correctly recalled items for trial 1 (T1) trial 2 (T2) and trial 3 (T3)

RECALLS W/OUT CUES
Sum of trials 1-3 prior to any cue administration, for list length 2

LL2 PROP. W/OUT CUES
Proportion of correct recalls prior to any cues, at list length 2 (previous column / 6)

RECALLS W/ CUES
Sum of trials 1-3 following relevant cue administration, for list length 2

LL2 PROP. W/ CUES
Proportion of correct recalls following relevant cue administration, at list length 2 (previous column / 6)

DIFFERENCE
Difference between recall proportion following cues, and prior to cue administration for list length 2

LL3 W/OUT CUES
List length 3 data, prior to any cue administration
T1-T2-T3
Correctly recalled items for trial 1 (T1) trial 2 (T2) and trial 3 (T3)

LL3 W/ CUES
List length 3 data, following relevant cue administration
T1-T2-T3
Correctly recalled items for trial 1 (T1) trial 2 (T2) and trial 3 (T3)

RECALLS W/OUT CUES
Sum of trials 1-3 prior to any cue administration, for list length 3

LL3 PROP. W/OUT CUES
Proportion of correct recalls prior to any cues, at list length 3 (previous column / 9)

RECALLS W/ CUES
Sum of trials 1-3 following relevant cue administration, for list length 3

LL3 PROP. W/ CUES
Proportion of correct recalls following relevant cue administration, at list length 3 (previous column / 9)

DIFFERENCE
Difference between recall proportion following cues, and prior to cue administration for list length 3

LL4 W/OUT CUES
List length 4 data, prior to any cue administration
T1-T2-T3
Correctly recalled items for trial 1 (T1) trial 2 (T2) and trial 3 (T3)

LL4 W/ CUES
List length 4 data, following relevant cue administration
T1-T2-T3
Correctly recalled items for trial 1 (T1) trial 2 (T2) and trial 3 (T3)

RECALLS W/OUT CUES
Sum of trials 1-3 prior to any cue administration, for list length 4

LL4 PROP. W/OUT CUES
Proportion of correct recalls prior to any cues, at list length 4 (previous column / 12)

RECALLS W/ CUES
Sum of trials 1-3 following relevant cue administration, for list length 4

LL4 PROP. W/ CUES
Proportion of correct recalls following relevant cue administration, at list length 4

(previous column / 12)

DIFFERENCE
Difference between recall proportion following cues, and prior to cue administration for list length 4

LL5 W/OUT CUES
List length 5 data, prior to any cue administration
T1-T2-T3
Correctly recalled items for trial 1 (T1) trial 2 (T2) and trial 3 (T3)

LL5 W/ CUES
List length 5 data, following relevant cue administration
T1-T2-T3
Correctly recalled items for trial 1 (T1) trial 2 (T2) and trial 3 (T3)

RECALLS W/OUT CUES
Sum of trials 1-3 prior to any cue administration, for list length 5

LL5 PROP. W/OUT CUES
Proportion of correct recalls prior to any cues, at list length 5 (previous column / 15)

RECALLS W/ CUES
Sum of trials 1-3 following relevant cue administration, for list length 5

LL5 PROP. W/ CUES
Proportion of correct recalls following relevant cue administration, at list length 5 (previous column / 15)

DIFFERENCE
Difference between recall proportion following cues, and prior to cue administration for list length 5

SPAN W/OUT
Estimation of listening span based on recalls at list length 2-5, prior to any cues

SPAN W/ CUES
Estimation of listening span based on recalls at list length 2-5, following cue administration

OVERALL PROP. W/OUT CUES
Span value above -prior to cues- calculated as a proportion correct (divided by 42)

OVERALL PROP. W/ CUES
Span value above - following cue administration- calculated as a proportion correct (divided by 42)

OVERALL DIFFERENCE
Difference between the proportion correct scores prior to and following cue

administration

No of cues given
Based of the maximum minus the number of correct recalls (42 - SPAN W/OUT)

No. of successful cues
Difference between
SPAN W/OUT and SPAN W/CUES

Prop. of recall benefit
Proportion of cues that were successful

Annotations column follows where appropriate

DCR trial level data

Age:
1= Year 1
2= Year 3
3= Year 5
4= Adults

PPT ID
code for participant allowing match with raw data files

Experiment:
1= Experiment 1A
2= Experiment 1B

T1 (SP1)
Trial 1 [2…etc] Item was presented at serial position 1 [2 or 3]

Prep. Interval
Preparatory interval before response (s)

Accuracy
Correct recall [1] or incorrect recall [0]

Annotations column follows where appropriate

DCR output files (zipped folder)

key_resp_Hello.keys	register to start experiment
key_resp_Hello.rt	time to press key (s)
P1Response.keys	register of keypress to Probe 1
P1Response.rt	time to respond to memory probe 1 (s)
PxResponse.keys	register of keypress to Probe (x)
PxResponse.rt	time to respond to memory probe x (s)
BreakResponse.keys	register of keypress to pause between blocks

BreakResponse.rt	time before ending block pause
date	date of data collection
frameRate	system frame refresh rate (Hz)
expName	study name
session	session number
participant	participant code