

Supplemental Material S2. Examples of working memory updating tasks.

Verbal (numeric) version

7		

Stimuli

-5		

Numerical Operations

		+2

Probe

The correct response for the probe in the verbal version above is 6 (4 is the starting value and +2 is the numerical operation in the probe cell).

Nonverbal (spatial) version

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Stimuli

↑		

Directional Operations

		→

Probe

The correct response for the probe in the nonverbal version above is a dot in the upper right corner of the cell (the upper middle position is the starting position of the dot and the directional arrow to the right indicates a movement one position to the right). Responses were indicated using a number pad that had a dot on each pad (instead of a number), corresponding to each position in the cell.