## I. Prabhakaran/Jon

II. Visuo-spatial WM

III. Cognitive Control

IV. Neuroimaging of Cognitive Control What is the nature of rehearsal in visuo-spatial WM?

Visuo-Spatial Selective Attention Rehearsal in Visuo-Spatial Working Memory Rehearsal in Visuo-spatial Working Memory Updated Understanding of Forms of WM

Set Shifting: Rule Switch Task <u>Plus-Minus Task</u>

• Group 1: + or -3

• Group 2: Alternate +/-3

red, uncle, mile, dog, brazil, foot, iron, zebra, ...

"animals, colors, countries, distances, metals, relatives"

Presented 15 words, 2-3 from each category

• Task: remember last word presented in each category

Multiple Control Processes? (Miyake et al., 2000)

Classification of Tasks Maintenance vs. Manipulation? (Wagner et al., 2001) Task Analysis Prefrontal Activations VLPFC / DLPFC Dissociation