



AUTOMATED WORKING MEMORY ASSESSMENT

Name: Joe Blogg
School:
Class:
Date of Birth: 01-Sep-1995
Date of Testing: 26-Sep-2007
Age at Testing: Years: 12 Months: 0
Tester: Dr Tracy Alloway
Notes/Comments:

STANDARD SCORES AND PERCENTILES

Scores are standardised to a mean of 100 and a standard deviation of 15 for each age band. Percentiles represent the percentage of individuals in the same age band who obtained this score or less.

TEST	STANDARD SCORE	PERCENTILES
VERBAL SHORT-TERM MEMORY		
Digit recall	83.0	9.0
VERBAL WORKING MEMORY		
Listening recall	81.0	9.0
Listening recall processing	72.0	2.0
VISUO-SPATIAL SHORT-TERM MEMORY		
Dot matrix	80.0	9.0
VISUO-SPATIAL WORKING MEMORY		
Spatial recall	89.0	22.0

Spatial recall processing	71.0	3.0
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GRAPH: COMPOSITE MEMORY SCORES

This graph indicates whether Joe Blogg is at risk for working memory problems. The grey shaded area represents average or typical performance for this age group. The blue area represents Joe Blogg's working memory profile.

	Verbal short-term memory	Verbal working memory	Visuospatial short-term memory	Visuospatial working memory
150				
145				
140				
135				
130				
125				
120				
115				
110				
105				
100				
95				
90				
85				
80				
75				
70				
65				

Learning profile

Verbal short-term memory

Verbal short-term memory refers to the ability to hold verbal information in mind for a brief period of time, for example when attempting to remember a new telephone number or an unfamiliar face. Verbal short-term memory plays an important role in learning the sound patterns of new words, in both the native language and in second language learning. Individuals with poor verbal short-term memory skills have specific impairments in the process of learning the phonological structures of new vocabulary items and acquire new vocabulary items at a much slower rate than their peers.

Joe Blogg's performance in the area of verbal short-term memory skills is below average compared to the peers in the same age-group. The scores indicate that Joe Blogg is likely to have specific impairments in language learning, and would acquire new vocabulary items at a much slower rate than the peers in the same age-group.

Verbal working memory

Verbal working memory refers to the capacity to hold in mind and manipulate verbal information over brief periods of time. Verbal working memory abilities are closely associated with a wide range of measures of academic ability, including literacy and mathematics. The majority of individuals with recognised learning difficulties in these areas have working memory impairments. Poor working memory skills in the early years of education are also effective predictors of poor scholastic attainments over the subsequent school years.

Joe Blogg's performance in the area of verbal working memory skills is below average compared to the peers in the same age-group. The scores indicate that Joe Blogg has learning difficulties that extend across the domains of literacy and mathematics rather than of difficulties restricted to literacy alone.

Visuospatial short-term memory

Visuospatial short-term memory refers to the ability to hold in mind visuospatial information for a brief period of time. Visuospatial short-term memory skills are closely linked with the ability to learn mathematics and science (for older children and adults). Individuals with poor visuospatial short-term memory skills may have difficulty in carrying out mental arithmetic and word problems.

Joe Blogg's performance in the area of visuospatial short-term memory skills is below average compared to the peers in the same age-group. The scores indicate that Joe Blogg will have specific impairments in tasks related to mathematical knowledge, particularly in mental arithmetic.

Visuospatial working memory

Visuospatial working memory refers to the ability to hold in mind and manipulate visuospatial information for a brief period of time. Visuospatial working memory skills are also closely linked with a wide range of measures of academic ability, including literacy and mathematics. The majority of individuals with recognised learning difficulties in these areas have working memory impairments. Poor working memory skills in the early years of education are also effective predictors of poor scholastic attainments over the subsequent school years.

Joe Blogg's performance in the area of visuospatial working memory skills is in the low-average range compared to the peers in the same age-group. The scores indicate that Joe Blogg is likely to have some difficulty in key areas of learning such as literacy and numeric. It is important to his monitor performance and to provide additional educational support.