

OLSON JR

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 A FACTOR ANALYTIC STUDY OF THE RELATION BETWEEN THE SPEED
 OF VISUAL PERCEPTION AND THE LANGUAGE ABILITIES OF DEAF ADOLESCENTS
 UNPUB.PH.D.DISS. OHIO STATE U 1966 (U MICROFILMS 67-02507)
 PEARSON R'S P. 114
 20 M;19 F DEAF ADOLESCENTS AGE 12-16 (M=14.2)

N=39

*** HIERARCHICAL FACTOR MATRIX, ORDER 1 ***

V#		1	2	3	4	5	6	7	8	H^2	
FACTOR 1: O2;F1 CRYSTALLIZED INTELL.....2C; ORDER 2											
FACTOR 2: O1;F2 KNOWLEDGE/FINGERSPELLING..KF; ORDER 1											
1	+3 PERC'N FINGERSPELLINGS (SPD)	3	.86	.47	.02	.03	.02	-.02	.03	-.02	.96
2	+2 PERC'N FINGERSPELLINGS (SPD)	2	.81	.46	-.05	.06	.02	.01	.01	-.03	.87
3	+4 PERC'N FINGERSPELLINGS (SPD)	4	.84	.44	.16	-.05	.05	-.04	-.02	.00	.93
4	+5 PERC'N FINGERSPELLINGS (TOT CORR)		.78	.44	-.03	-.05	-.03	.00	.13	.10	.83
5	+1 PERC'N FINGERSPELLINGS (SPD)	1	.85	.41	.04	.08	-.02	.06	.03	.05	.90
6	+31 GATES READING VOCABULARY		.59	.26	.02	.19	-.094	.335	-.05	-.23	.63
FACTOR 3: O1;F1 READING SPEED .....RS; ORDER 1											
7	+13 PERC'N FAMILIAR WDS (TACH)	3	.42	-.02	.79	-.02	-.20	.20	-.01	-.14	.90
8	+11 PERC'N FAMILIAR WDS (TACH)	1	.47	-.11	.64	.07	.03	.28	.09	.04	.73
9	+14 PERC'N FAMILIAR WDS (TACH)	4	.42	.03	.63	-.17	.06	.13	-.03	-.05	.63
10	+12 PERC'N FAMILIAR WDS (TACH)	2	.57	.00	.56	-.02	-.054	.305	.23	.02	.78
11	+9 PERC'N LETTER SEQUENCES (SPD)	4	.60	.02	.52	-.01	.18	.07	.23	-.03	.72
12	+22 PERC'N GEOMETRIC FORMS	4	.59	.12	.40	-.12	.29	-.02	-.184	.355	.78
13	+8 PERC'N LETTER SEQUENCES (SPD)	3	.68	.12	.38	-.01	.22	-.014	.375	-.15	.83
FACTOR 4: O1;F4 WRITING ABILITY .....WA; ORDER 1											
14	+26 PICTURE STORY LANG:SENTENCES		.47	.04	-.20	.78	-.00	.01	.02	.01	.88
15	+25 PICTURE STORY LANG:WORDS		.57	-.01	-.04	.70	.03	.19	-.00	.17	.89
16	+18 PERC'N PSEUDOSYMB.FRMS 130MS	4	.37	.01	.07	.37	-.05	-.04	-.024	.325	.38
17	+17 PERC'N PSEUDOSYMB.FORMS 90MS	3	.45	.07	.06	.36	.01	.06	-.264	.345	.53
FACTOR 5: O1;F5 VISUALIZATION .....VZ; ORDER 1											
18	+20 PERC'N GEOMETRIC FORMS	2	.44	-.02	.02	.02	.81	.02	.00	.02	.84
19	+21 PERC'N GEOMETRIC FORMS	3	.42	.01	.014	.315	.58	-.04	-.25	-.01	.68
20	+19 PERC'N GEOMETRIC FORMS	1	.20	-.00	-.04	.24	.44	-.17	-.05	-.20	.36
FACTOR 6: O1;F3 KNOWLEDGE LIPREADING .....LP; ORDER 1											
21	+24 CRAIG LIPREADING/SENTS.	LR2	.27	-.00	-.23	-.03	.01	.77	-.204	.515	1.02
22	+27 PICTURE STORY LANG:WORDS/SENT.		.34	.03	.03	-.25	.29	.58	.03	.02	.60
23	+28 PICTURE STORY LANG:SYNTAX QUO.		.38	.02	-.02	-.044	.325	.58	-.11	.02	.59
24	+29 PICTURE STORY LANG:ABST-CONCRT		.48	-.03	.004	.335	.20	.53	.03	-.14	.68
25	+32 GATES READING/LEVEL OF COMPREH		.46	.07	.03	-.00	-.01	.484	.325	-.07	.55
26	+30 GATES READING SPEED		.56	.22	-.24	.24	.02	.37	.19	-.19	.69

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(CONTINUED)

V#		1	2	3	4	5	6	7	8	H^2
FACTOR 7: 01;F6 PERCEPTUAL INTEGRATION ...PI; ORDER 1										
27	-33 CHRONOLOGICAL AGE10	-.01	-.23	.01	.03	.01	.58	.00	.40
28	+7 PERC'N LETTER SEQUENCES(SPD) 2	.51	.09	.16	.19	.10	-.13	.51	-.23	.68
29	+10 PERC'N LETTER SEQUENCES(SPD) 5	.65	.124	.375	-.02	-.04	-.01	.50	.05	.82
30	+6 PERC'N LETTER SEQUENCES(SPD) 1	.56	.02	.02	.24	.28	.15	.43	-.11	.67
FACTOR 8: 01;F7 CLOSURE SPEED .....CS; ORDER 1										
31	+15 PERC'N PSEUDOSYMB.FORMS 15MS 1	.22	.00	-.19	-.02	.24	.01	.02	.59	.49
32	+23 CRAIG LIPREADING/WORDS . . LR1	.45	.00	-.05	.04	-.004	.625	-.06	.57	.93
33	+16 PERC'N PSEUDOSYMB.FORMS 55MS 2	.19	-.16	.15	.16	.03	-.03	.26	.45	.38
34	+34 IQ: LEITER INTERN.PERF.SCALE .	.43	-.06	.27	.05	.13	.27	.03	.33	.46
SMSQ:		9.71	1.21	2.87	1.98	1.80	2.82	1.74	1.90	24.03

*** HIERARCHICAL FACTOR MATRIX, ORDER 2 ***

HF #	1ST-ORD FACTOR	1	H^2
FACTOR 1: 02;F1 CRYSTALLIZED INTELL.....2C; ORDER 2			
HF 2	01;F2 KNOWLEDGE/FINGERSPELLING..KF	.87	.75
HF 3	01;F1 READING SPEED .....	.56	.31
HF 4	01;F4 WRITING ABILITY .....	.56	.31
HF 5	01;F5 VISUALIZATION .....	.47	.22
HF 6	01;F3 KNOWLEDGE LIPREADING .....	.41	.17
HF 7	01;F6 PERCEPTUAL INTEGRATION ...PI	.38	.14
HF 8	01;F7 CLOSURE SPEED .....	.33	.11
SMSQ:		2.02	2.02