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HECKMAN RW
 APTITUDE-TREATMENT INTERACTIONS IN LEARNING FROM PRINTED INSTRUCTION:
 A CORRELATIONAL STUDY. UNPUB.PH.D.THESIS PURDUE UNIV. 1967
 (U.MICROFILM 67-10202) PEARSON R'S APPENDIX C P.84
 VOLUNTEERS FROM FRESHMAN ENGLISH CLASSES (SNOW'S STUDY)

N=185

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

V#	1	2	3	4	5	6	7	8	9	10	11	12	13	H^2
FACTOR 1: O3;F1 GEN'L MEMORY (3RD-ORDER)..3Y; ORDER 3														
FACTOR 2: O2;F3 MEM. FOR EVENTS .....2Y; ORDER 2														
FACTOR 3: O1;F6 MEMORY/EVENTS(ORDER) .....MO; ORDER 1														
1 +30 SOCIAL ABSTRACTS IIA .....	.35	.14	.54	-.03	.22	.15	-.00	.03	.01	-.10	-.02	-.00	-.15	.54
2 +28 SOCIAL ABSTRACTS IA (HEIDER)..	.28	.14	.42	.08	.15	.01	.03	-.01	-.01	.00	.12	-.02	-.26	.39
3 +41 IDEA SEQUENCE/PT 2 (RALSTON) .	.15	.01	.28	.03	.21	.20	-.14	-.16	-.10	.28	.20	.04	-.01	.37
FACTOR 4: O1;F9 MEANINGFUL MEMORY(ALT)....MM; ORDER 1														
4 +27 FILM MEMORY III(SEIBERT & SNOW	-.16	-.18	.03	.56	.08	.00	-.02	-.01	.16	.21	.01	.00	.03	.45
5 +#4 MATHEMATICS APTITUDE PT 1(ETS)	.29	.01	-.01	-.394	.375	.18	.12	.02	.01	.20	.21	.24	-.12	.58
6 +#5 NECESSARY ARITH.OP'NS PT 1(ETS)	.22	-.05	.03	-.454	.3654	.365	-.10	-.05	-.02	.19	.12	.23	.05	.63
7 +#6 NECESSARY ARITH.OP'NS PT2(ETS)	.27	-.03	-.01	-.464	.4054	.315	-.15	-.02	.15	.22	.184	.315	-.02	.76
FACTOR 5: O2;F2 GEN'L MEMORY (2ND-ORDER) .2Y; ORDER 2														
FACTOR 6: O1;F2 MEANINGFUL MEMORY .....MM; ORDER 1														
8 +29 SOCIAL ABSTRACTS IB (HEIDER/S)	.16	-.20	.10	.02	.45	.40	-.01	.01	.03	-.07	.01	-.12	-.00	.46
9 +31 SOCIAL ABSTRACTS IIB .....	.23	-.06	.23	-.06	.34	.33	.02	-.03	-.09	-.09	.02	-.14	-.03	.38
10 +#7 MAZE TRACING SPEED (ETS KIT)..	.25	-.08	.20	-.12	.38	.33	.01	.01	.03	-.19	-.02	-.03	-.16	.43
11 +22 WORD GROUPING (GUILFORD/HOEPF.	.12	-.19	-.00	.00	.43	.31	.16	.03	-.06	.10	.06	.00	-.01	.37
12 +#8 MAP PLANNING (ETS KIT) .....	.30	-.04	.12	-.23	.39	.26	.16	.00	.01	-.14	.05	.01	-.19	.46
13 +26 FILM MEMORY II(SEIBERT & SNOW)	-.01	-.19	-.05	.15	.27	.21	.14	-.01	.02	.13	-.02	.01	.16	.25
FACTOR 7: O1;F5 ASSOCIATIVE MEMORY .....MA; ORDER 1														
14 +13 POSITION RECALL I (CHRISTAL'58	.28	.07	.18	.00	.23	-.02	.54	-.05	.00	-.06	-.01	.02	-.02	.47
15 +11 FIRST & LAST NAMES (ETS KIT) .	.10	.06	.01	.00	.08	-.13	.47	.00	.02	.27	-.01	.22	.22	.43
16 +14 POSITION RECALL 2(CHRISTAL '58	.22	.02	.02	-.07	.25	.02	.41	.04	-.01	.01	.03	-.01	.05	.29
FACTOR 8: O1;F3 MEMORY SPAN .....MS; ORDER 1														
17 +#9 AUDITORY LETTER SPAN (ETS KIT)	.14	-.03	.02	-.00	.24	-.01	.02	.74	-.01	.20	-.02	.04	-.00	.67
18 +10 AUDITORY NUMBER SPAN (ETS KIT)	.21	.02	.12	-.02	.25	.02	-.04	.73	-.01	.16	.00	-.02	-.00	.69
19 +36 AUDITORY WORD SPAN .....	.26	.104	.305	.06	.22	.00	.03	.53	.004	.335	.02	.01	.25	.67
FACTOR 9: O1;F4 PERCEPTUAL INTEGRATION ...PI; ORDER 1														
20 +32 SUCCESSIVE PERCEPTION III(FILM	.27	.03	-.00	-.00	.25	.01	.01	.03	.67	-.24	-.01	-.01	-.01	.64
21 +33 SUCCESSIVE PERCEPTION IV(FILM)	.27	.09	.04	-.13	.17	-.01	-.03	-.03	.57	-.16	.00	.11	-.00	.49
22 +34 SEQUENTIAL WORDS(FILM)22	-.04	-.03	.10	.32	.04	.12	.11	.50	.02	.02	.02	.15	.46

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(CONTINUED)

V#	1	2	3	4	5	6	7	8	9	10	11	12	13	H^2
FACTOR 10: O2;F1 FLUID/CRYSTAL'D INTELL....2H; ORDER 2														
FACTOR 11: O1;F1 VERBAL ABILITY .....V; ORDER 1														
23 +#3 WIDE RANGE VOCAB. PT 2(ETS KIT)	.33	.09	.01	-.024	.335	-.01	-.04	.02	-.00	.41	.60	-.24	-.03	.82
24 +#1 ADVANCED VOCABULARY (ETS KIT)	.29	.04	.03	.114	.345	.01	.00	-.06	-.02	.36	.57	-.28	-.09	.76
25 +#2 WIDE RANGE VOCABULARY PT. I(ETS	.31	.04	-.01	.014	.385	.03	.01	.03	.02	.46	.55	-.18	.03	.80
26 +18 WORD MATRIX (GUILFORD/HOEPFNER	.18	.03	.00	-.03	.22	-.03	.03	-.12	.10	.29	.36	.16	-.26	.41
27 +42 SENTENCE REPRODUCTION(RALSTON)	.34	.15	.24	-.02	.26	-.02	-.13	.25	.07	.42	.36	-.02	.02	.65
28 +16 VERBAL CLASSIFICATION/PT 1 ...	.15	-.04	-.08	-.02	.27	.04	.14	-.17	-.03	.18	.35	.01	-.26	.38
29 +15 WORD CLASSIFICATION EL 17A/PT1	.19	.04	.03	.07	.19	-.06	.06	-.05	.03	.16	.35	-.08	-.24	.31
30 +23 VOCABULARY COMPLETION(SPEED)	.20	-.09	-.12	-.014	.425	.13	.05	.04	.14	.34	.35	-.00	.02	.52
31 +35 MEMORY FOR IDEAS TOTAL .....	.21	.02	.15	-.02	.28	.14	-.04	-.16	-.03	.35	.33	.01	.01	.42
32 +20 VERBAL ANALOGIES I/PT 2 .....	.16	.00	-.04	.05	.23	-.02	.02	.06	.10	.27	.31	-.02	-.07	.27
33 +19 VERBAL ANALOGIES I/PT 1 .....	.16	.02	-.04	-.01	.20	.00	-.01	-.09	.16	.25	.30	.04	-.04	.26
34 +38 PHRASE COMPLETION(RALSTON) ...	.14	.07	.11	.09	.15	-.10	.14	-.02	-.00	.54	.30	.25	-.02	.54
35 +17 VERBAL CLASSIFICATION/PT 2 ...	.23	-.05	-.10	.074	.375	-.004	.305	-.01	.17	.14	.29	-.03	-.14	.46
36 +39 SENTENCE COMPLETION(RALSTON)	.23	.09	.20	-.00	.23	.01	.10	-.10	.02	.47	.29	.21	.02	.52
37 +24 SENTENCE ORDER(GUILFORD/HOEPF.	.14	-.07	.09	.054	.305	.17	-.03	-.15	-.01	.26	.28	.06	-.14	.35
38 +21 WORD GROUP NAMING (GUILFORD/H)	.23	.12	.08	-.15	.15	-.01	-.01	.02	.03	.19	.24	-.01	.01	.21
39 +12 SEQUENCE MEMORY (RE TEST ORDER	.13	.01	.02	-.06	.16	.05	.16	-.09	-.07	.07	.14	-.05	-.02	.12
FACTOR 12: O1;F7 REASONING .....RG; ORDER 1														
40 +40 IDEA SEQUENCE/PT 1 (RALSTON)	.02	.03	.26	.01	.04	.03	-.01	.04	-.17	.37	.03	.36	-.09	.38
FACTOR 13: O1;F8 FREE RECALL MEMORY .....M6; ORDER 1														
41 +25 FILM MEMORY I (SEIBERT & SNOW)	.01	-.07	.01	-.01	.13	.22	.03	-.16	.15	.10	-.14	-.01	.57	.47
42 +37 PAIRED WORDS TOTAL17	.114	.335	.15	.11	-.01	.26	-.00	-.03	.36	-.01	.09	.38	.54
SMSQ: 2.03	.33	1.16	1.10	3.22	1.06	1.10	1.63	1.26	2.84	2.49	.76	1.06	20.05	

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(CONTINUED)

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

HF #	1ST-ORD FACTOR	1	2	5	10	H^2
	FACTOR 1: O3;F1 GEN'L MEMORY (3RD-ORDER)..3Y; ORDER 3					
	FACTOR 2: O2;F3 MEM. FOR EVENTS .....2Y; ORDER 2					
HF 3	O1;F6 MEMORY/EVENTS(ORDER) .....MO	.47	.35	.08	.02	.34
HF 4	O1;F9 MEANINGFUL MEMORY(ALT)....MM	-.35	-.30	.044	.355	.33
	FACTOR 5: O2;F2 GEN'L MEMORY (2ND-ORDER) .2Y; ORDER 2					
HF 6	O1;F2 MEANINGFUL MEMORY .....MM	.114	-.385	.66	.03	.60
HF 7	O1;F5 ASSOCIATIVE MEMORY .....MA	.31	-.03	.40	-.07	.27
HF 8	O1;F3 MEMORY SPAN .....MS	.17	-.04	.30	.22	.17
HF 9	O1;F4 PERCEPTUAL INTEGRATION ...PI	.34	.05	.29	-.29	.28
	FACTOR 10: O2;F1 FLUID/CRYSTAL'D INTELL....2H; ORDER 2					
HF11	O1;F1 VERBAL ABILITY .....V	.28	.054	.375	.65	.64
HF12	O1;F7 REASONING .....RG	-.16	-.08	.02	.65	.45
HF13	O1;F8 FREE RECALL MEMORY .....M6	-.03	.07	-.06	.52	.28
	SMSQ:	.70	.37	.93	1.36	3.36

*** HIERARCHICAL FACTOR MATRIX, ORDER 3 ***

HF #	2ND-ORD FACTOR	1	H^2
	FACTOR 1: O3;F1 GEN'L MEMORY (3RD-ORDER)..3Y; ORDER 3		
HF 2	O2;F3 MEM. FOR EVENTS .....2Y	.75	.57
HF 5	O2;F2 GEN'L MEMORY (2ND-ORDER) .2Y	.64	.41
HF10	O2;F1 FLUID/CRYSTAL'D INTELL....2H	-.13	.02
	SMSQ:	.99	.99