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TRAITS AS SELF-SCHEMATA AND THEIR EFFECT ON RECALL OF CONTENT-SPECIFIC ADJECTIVES

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TRAITS AS SELF-SCHEMATA AND THEIR EFFECT ON RECALL OF CONTENT-SPECIFIC ADJECTIVES

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Master of Arts

in Psychology

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Abstract

The concept that personality traits serve as a priori selfschemata cognitive structures in memory was investigated. College students from University of Richmond were tested on recall of 160 content-specific adjectives and then administered the Personality Research Form. After being shown the list of adjectives, subjects were given a five-minute distractor task and then given fifteen minutes to recall as many adjectives as possible. A correlational analysis was performed on the scores on the personality traits of achievement, affiliation, autonomy, dominance, endurance, nurturance, order, play, sentience, and understanding and with the recall of content-specific adjectives. The correlation between the trait of endurance and the recall of endurancespecific adjectives was significant. Other significant correlations were: achievement trait with endurance recall, sentience trait with play recall, nurturance trait with understanding recall, and sentience trait with nurturance recall. An interesting finding was that six out of ten traits correlated higher with their content-specific adjectives than with any other adjectives. The correlation between recall of adjectives and their social desirability scale was also The study supported previous research which significant. showed that some of the variance in the recall of adjectives can be attributed to the social desirability of the adjectives.

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Traits as Self-Schemata and Their Effect on Recall of Content-specific Adjectives

Much interest has been shown in cognitive structures and cognitive processes involved in memory. James (1890) postulated the idea of a self that is both the "knower" and the "known". The known acts as a memory store, and the knower acts as a set of processes. Bartlett (1932) asserted that people possess a schema which was defined as an active organization of past experiences. The schema serves as a cognitive structure and is influenced by complex psychological states or processes referred to as attitudes.

Later, cognitive structures and cognitive processes were studied separately. Craik and Lockhart (1972) contended that highly meaningful stimuli are processed at a "deeper" level and are better retained than less meaningful stimuli; depth of processing implies a greater degree of semantic or cognitive analysis. Craik and Tulving (1975) examined the following three levels of encoding: structural, phonemic, and semantic. In the structural task, subjects were asked about the physical structure of the word (e.g., "Is the word in capital letters?"). In the phonemic task subjects were asked about the word's rhyming characteristics (e.g., "Does the word rhyme with train?"). In the semantic task, subjects were asked the meaning of the word (e.g., "Is the word a type of fish?"). They found the highest level of recall

in the semantic task, the next highest level in the phonemic task, and the lowest level of recall in the structural task. It was demonstrated that a minimal semantic analysis aids retention better than an elaborate structural analysis. They concluded that it was the type of operation performed on the items that determined the level of recall or recognition and not the intention to learn, the amount of effort involved, the difficulty of orienting task, the amount of time spent making the judgements, or the amount of rehearsal.

Schulman (1974) found that congruous examinations of words (e.g., "Is a SOPRANO a singer?") yielded better retention than incongruous examinations (e.g., "Is MUSTARD concave?"). Similarly, Craik and Tulving (1975) discovered that when a word did not fit the sentence frame (e.g., "She cooked the CRATE."), the word was poorly recalled. They argued that along with semantic analysis, a principle of congruity was necessary for a complete description of the encoding process. They suggested that when encoded material is integrated with past experiences, a memory trace is established which facilitates retrieval. A spread of encoding was mentioned as a better description than depth of processing.

Rogers (1974) asserted that responding to personality items involves a comparison between the items and an internalized memory store. The memory store was labeled the "self" and consisted of a Self-Referent Decision (SRD) stage.

The "self" was referred to as "an abstraction of salient, selfrelated experiences" (p.135). Later, Rogers (1977) suggested that the "self" had two components. One component consisted of a person's view of him/herself, and the other component consisted of mechanisms used to organize new input related to that memory component. In three experiments, it was discovered that: (1) some subjects spontaneously used an SRD strategy; (2) when subjects were instructed to use an SRD strategy, recognition was greatly increased; and (3) SRD strategy did not affect retention for third-person items.

Markus (1977) proposed that there are selective cognitive structures that are used in organizing information about the The structures were referred to as self-schemata. Selfself. schemata were defined as "cognitive generalizations about the self, derived from past experiences, that organize and guide the processing of self-related information contained in the individual's social experiences" (p.64). The concept of selfschemata was investigated by testing subjects on the traits of independence and dependence. Subjects were divided into three groups, independents, dependents and aschematics. Independents and dependents were subjects who rated themselves on the extremes of the appropiate scales and who claimed these scales as being important to them. Aschematics were subjects who rated themselves in the middle of the these scales and claimed these scales were not important to them. In the first

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task, subjects were presented with adjectives associated with independence and dependence and were asked to indicate which adjectives were self descriptive. Their response time was recorded. In the second task, subjects were asked to cite instances of past behavior to support their choice of selfdescriptive adjectives. In the third task, subjects were asked to predict the likelihood of future behavior with respect to independence and dependence. Finally, subjects were given a fictitious suggestability test and presented with incongruent feedback with regard to self-schema. It was shown that individuals who had a schema (either independent or dependent) chose more adjectives associated with that schema, processed those adjectives in a shorter time, were able to supply more examples of past schematic behavior, were more confident in predicting future schematic behavior, and more resistant to change when given feedback. The opposite was true for the incongruent to their schema. aschematics. It was proposed that behavior was more a result of the readiness and ability to acknowledge the trait than the actual possession of the trait. Similar results were found in the domain of masculine and feminine self-schemata (Markus, Crane, & Siladi, 1978) and again in the domain of independence and dependence self-schemata (Sentis & Markus, 1979).

Cantor and Mischel (1977) investigated traits as prototypes in recognition. Subjects were presented with statements

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descriptive of an extrovert, introvert, and two unextroverted and unintroverted characters. Subjects were also shown a second series of statements which included the original statements and some new items. The new items contained material that was conceptually related to the traits. When asked to indicate which items had been presented from the initial test, subjects displayed a bias to misidentify the conceptually related new items as having been original statements. It was shown that pecple use trait prototypes to organize anticipated schema of events.

Expanding on the idea that the self acts as a schema or prototype, Rogers, Kuiper, and Kirker (1977) investigated self-reference as an encoding device. Self-reference was compared to structual, phonemic, and semantic encoding processes. In the self-reference task, subjects were asked if the word described them. It was demonstrated that selfreference encoding tasks led to superior recall. They proposed that traits served as subschema, and that the extremity and the salience of the trait contributes to the organization of the self.

Further research has shown that self-descriptive traits enhanced superior recall and faster decision time (Kuiper & Rogers, 1979). It has also been shown that recall for trait adjectives that are descriptive of self or familiar others was better than for unfamiliar others (Bower & Gilligan, 1979;

Lord, 1980). Brenner (1973) demonstrated that self initiated acts were better recalled than acts initiated by others. Suin, Osborne, & Winfree (1962) discovered that adjectives consisitent with a person's self-concept were better recalled than adjectives inconsistent with a person's self-concept. These findings are further support for the presence of selfschema in memory.

Rogers, Kuiper, and Rogers (1979) further investigated the properties of self-reference. In their first experiment, they measured the response time in a paired comparision task. Subjects were first asked to rate themselves on 14 personality traits. Then Subjects were shown a pair of adjectives and asked to decide which one best described them. The adjectives were broken down into seven interstimulus distances referred to as step 0 through step 6. Step 0 contained a pair of adjectives which received identical self-rating by that particular subject. Step 6 contained a pair of adjectives in which one of the words was separated by six units on that subject's self-rating from the other word. When subjects were given step 0 adjectives, the stimuli were hard to discriminate and the response time was high. At each step increase the stimuli became easier to discriminate and the response time was significantly lower. It was found that 95% of the variance in the response time in the paired comparisons task was attributed to self-reference. It was concluded that self-

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reference was a robust process.

In the second experiment, subjects filled out a selfrating questionaire. Three sets of adjective pairs comprised of low, middle, and high levels of self-reference were obtained from the self-rating questionaire. Subjects were tested on a paired comparision task in two different sessions. In one session they were instructed to choose the adjective that described them best. In the other session they were instructed to choose the adjective that described them least. Their response times were recorded. Since there was no significant interaction between the response times on the levels of self-reference and instructions, it was concluded that there is a fixed reference point in selfreference judgements. The fixed reference point marks self-reference as a cognitive structure. It was suggested that self-reference serves both as a process and a structure in memory, and that there is an interaction between the two.

Davis (1979) investigated self-reference in clinically depressed patients, and found enhanced recall in the nondepressed group of subjects for self-referent decisions but not in the clinically depressed group. Derry and Kuiper (1981) interpreted the results of Davis (1979) in terms of adjective content. They showed three groups of subjects (clinically depressed, non-depressed psychiatric control,

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and normal non-depressed), adjectives which were rated with regard to content, i.e., depressed, non-depressed, and imagery attributes. The results revealed that the depressed group had superior recall only for depressed content adjectives that were self-referent, and the non-depressed groups had superior recall only for non-depressed content adjectives that were self-referent. Thus clinical depressives and non-depressives utilize a self-schema that is contentspecific. In subsequent research, Kuiper and Derry (1982) found that mild depressives displayed enhanced self-referent recall for both depressed and non-depressed content adjectives. It was suggested that a self-schema model of depression was based on the severity of symptoms. At deeper levels of depression, subjects' self-schema emphasize more depressed content material. Similarly, Ingram, Smith, and Brehm (1983) examined the influence of failure and success feedback on depressives and non-depressives by using a depth of processing paradigm. Results indicated that neither success nor failure feedback significantly increased recall for more favorable self-references in depressed subjects as it did in non-depressives. It was concluded that depressed individuals suffer from an enduring negative self-schema.

Ferguson, Rule, and Carlson (1983) found that desirability-rated adjectives facilitated memory relative to all but the self-condition. They concluded that words were

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organized in terms of an evaluative dimension (i.e., good versus bad, positive versus negative). It was the evaluative nature of the task that facilitated memory. They discussed the likelihood that desirability ratings may reflect judgements about the self. Since desirability ratings enhanced retention as much as self-reference, they argued against a self-schema in memory. Zajonc (1980) asserts that affective judgements always implicate the self. Thus, desirability ratings may act as an extension of selfreference. Ferguson <u>et al.</u> (1983) recommended that a strategy for determining schema be based on an a priori method.

If traits act as schemas or prototypes in memory, then it is to be expected that there would be a proclivity to process and remember content-specific material more than other material. Therefore if the traits are known, then a prediction could be made concerning the kind of material that would be best processed in memory. The present study sought to examine the relationship between the scores on personality scales and recall of content-specific adjectives. A positive relationship between the raw scores on the personality traits and the number of content-specific words recalled was predicted.

To further investigate Feguson <u>et al.</u> (1983) findings that desirability of adjectives enhance recall, the relationship

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between the number of subjects recalling each adjective and the social desirability rating of each adjective was calculated. Method

Subjects

A total of ninety-two college students from the University of Richmond served as voluntary participants. Two subjects who scored four and seven on the Infrequency validity scale of the Personality Research Form, were removed from the study as recommended by the PRF manual. Such scores are indicative of either response careleness, poor comprehension, passive non-compliance or confusion.

In order to obtain equal numbers of subjects in the counterbalanced groups, four other subjects were randomly removed from the study. The remaining total of 86 subjects consisted of fifty female and 36 male students. Four of the subjects were graduate students in psychology. Forty subjects participated in the spring semester and received research participation credit. Forty-six subjects participated in the summer semester and these students were elicited by the consent of the professor in several intact classes. The subjects were treated in accordance with the "Ethical Principles of Psychologists" (American Psychological Association, 1981). Subjects were given a consent form (see Appendix A) which informed them of the nature of the study; gave them permission to decline

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participation at any time; and assured them of confidentiality.

Materials

The Personality Research Form (PRF) developed by Jackson (1967) was used to measure personality traits. A list of 160 adjectives (16 per trait for 10 traits) was obtained from the Trait Rating Form (TRF) developed by Jackson (1967). In order to enhance recall, adjectives selected within these traits had a desirability rating greater than 4.1 on a scale from one to nine as set forth by the TRF (see Appendix B). The adjectives were distributed randomly in the list. То insure the randomness of the adjectives, a chi square analysis was computed on the first third and last third of the list. The chi square was not significant at the .05 level, for both the first third and the last third of the (9, N=53) = 4.93, p>.05 and X (9, N=53)list X = 7.94, p> .05, respectively. Thus, the adjectives which reflected the personality traits were not distributed unequally among the ten catagories. The traits and adjectives specific to the scales of achievement, affiliation, autonomy, dominance, endurance, nurturance, order, play, sentience and understanding were scored.

Procedure

Subjects were tested in groups ranging in size of five to 25. Each subject was presented a packet of material

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which was placed face down on the desk. Subjects were asked to open the packet and remove the consent form. After they had read the consent form and understood it, they were asked to sign it and place it under their desks. Forty-six of the subjects were asked to remove the form titled "word list" (see Appendix C) and were given the following instructions:

The word list contains 160 adjectives. You are asked to look at each word carefully. After you have seen the word you are asked to underline it, and move to the next word. You are to look at the words in the numerical order in which they are presented. After you have seen and underlined each word then you are asked to place the list under your desk and wait for further instructions. You will be given eight minutes to look at the words. Do not look at any other material in your packet. Are there any questions? As a distractor task, subjects were given a list of anagrams (see Appendix D) and the following instructions:

Take out the form that reads "anagram list" . On this sheet of paper are words in which the letters have been scrambled. You are asked to rearrange the letters to form the appropiate word. You may solve the anagrams in any order, and you will be given five minutes to complete as many as possible. Are there any questions? Next, the subjects were asked to write down as many

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adjectives as they could recall. They were given fifteen minutes to recall the adjectives in any order, and spelling was not counted against them. Next, the PRF was administered. The remaining 46 subjects received the PRF first, then they were shown the list of adjectives, then they were shown the anagram list, and then asked to recall the adjectives. This procedure was used to counterbalance effect of order. After the subjects completed the experiment they were debriefed (see Appendix E) and dismissed.

Results

Pearson product-moment correlations were computed between the raw score on each personality trait and the number of content-specific adjectives recalled. A ten-by-ten matrix of first-order coefficients was generated, and all coefficients were tested for significance at the .05 level (see Table 1).

Insert Table 1 about here

The correlations on the diagonal provide a test of the main hypothesis. The correlation between the personality trait of endurance and the recall of content-specific adjectives was significant at the .05 level. The correlation for the endurance trait and recall was the only one out of the ten correlations on the diagonal that was significant.

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A test of significance between the proportion of the one significant correlation on the diagonal (1/10 = .10) and the proportion of the other significant correlations (4/10 = .044)was calculated, and the <u>z</u> score of .788 was not significant with an alpha level of .05. Other significant correlations were: achievement trait with endurance recall, the sentience trait with play recall, the nurturance trait with understanding recall, and the sentience trait with nurturance recall. Six out of the ten (autonomy, dominace, endurance, order, play, and understanding) personality traits correlated higher in a positive direction with their contentspecific adjectives than any other adjectives.

Pearson product-moment correlation was computed between the recall of adjectives and their social desirability rating. The correlation of .24 was significant at the .05 level. Means and standard deviations were computed for the personality scales and the recall of content-specific adjectives (see Table 2).

Insert Table 2 about here

Discussion

Research has shown that both cognitive processes and cognitive structures are involved in memory. Rogers <u>et al.</u> (1979) suggested that there may be an interaction between

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the processes and structures in memory. While alluding to a self-schema structure, past research in self-reference has used the self-reference decision stage as a way to process information. One way to determine the existence of a selfschema is to point to the schema a priori and predict better retention due to it. If personality traits are indicators of self-schema, then they would act as cognitive structures and could be used to predict retention. Noting that only one correlation of the main hypothesis was statistically significant, the present study failed to provide any clear evidence that personality traits serve as self-schemata in memory.

Since six out of the ten personality traits correlated higher in a positive direction with their perspective contentspecific adjectives than with any other group of adjectives, this study provides an interesting finding that could be pursued in future research. The relationship between the personality traits and the content-specific adjectives might be more complicated than predicted, in that different personality traits might load on each other and obscure the effect. If this is the case, then a multivariate approach is suggested for further research.

During the experiment it was discovered that subjects varied on the time taken to look at and underline the adjectives. Although given eight minutes, approximately

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one-third of the subjects finished the task in two minutes. The discrepancy among the times taken by the subjects to look and underline the adjectives more than likely affected recall. Subjects taking shorter time probably recalled less number of adjectives. There are procedures available to pace and regulate word presentation, and the inclusion of such methods are strongly recomended for further research.

Another explanation for the findings is that there was a limited range in the scores for the recall of content-specific adjectives as shown by the means and standard deviations in Table 2. One way to increase the range is by recoding the recall variable as a percentage of total recall instead of the number of content-specific adjectives recalled. Recoding the recall variable as a percentage of total recall would better reflect the impact of the hypothesized effect. For example, if two subjects recalled three achievement contentspecific adjectives each, but subject A recalled a total of five adjectives and subject B recalled a total of 30 adjectives, the three content-specific adjectives in the present study are treated the same. Actually, the three content-specific adjectives represent different percentages of total recall. Sixty percent of the adjectives that subject A recalled, were related to achievement; whereas, only ten percent of the adjectives that subject B recalled were related to achievement.

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Another way of increasing the range of recall is by limiting the number of words and the number of traits being investigated at a given time. Given the number of adjectives (160) and the possibility of remembering several words related to several personality scales, it is highly probable that the task was too complicated for the subjects. It is suggested for further research that the relationship between a few personality traits and their content-specific adjectives be investigated.

The correlation between recall of adjectives and their social desirability scale helps to support previous research. Ferguson <u>et al.</u> (1983) discovered that high desirable words were better retained. This study shows that there is a correlation between the recall of an adjective and its social desirability rating. The correlation was small, perhaps due to the fact that only adjectives with a rating above 4.1 on a nine point scale were used. The selection of such adjectives limited the range of the desirability scale. The correlation shows that some of the variance accounted for in the recall of adjectives can be attributed to the social desirability of the adjectives.

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Table 1

<u>A Matrix of Correlation Coefficients Between Ten Personality</u>

Traits and Ten Categories of Content-specific Adjectives

Recall of Content-specific Adjectives

	Achie	evement recall	Affiliation recall	Autonomy recall	Dominance recall	Endurance recall	Nurturan recall	ce Order recall	Play recall	Sentience recall	Understanding recall
Traits							******				
Achieve	ment	.1503	.0227	.0601	.0883	.3036*	.1074	.0541	0047	.1014	0434
Affilia	tion	0957	70585	.0146	.0508	0502	0639	0047	.1562	.0417	.0036
Autonom	У	1107	70728	.1198	.0016	0230	0178	1375	0300	.0143	.0036
Dominan	ce	.0397	1054	0266	.1413	0729	1492	1124	0753	0044	1029
Enduranc	ce	.1189	1310	.1086	0085	•2446*	0362	1292	.0515	.0592	1193
Nurturar	nce	.0321	0657	0198	.0540	.0903	0961	.0986	.1601	.0713	1983*
Order	· . ·	.0768	- .'0913	1083	.0465	0804	0793	.0901	0641	.0383	1111
Play		0994	0372	0360	.0760	0579	1668	.0525	.1267	<u>/</u> 0054	.1115
Sentiend	ce	.0137	1593	1176	0537	.0612	1884*	0398	.2405	5* <u>.0750</u>	.1117
Understa	andin	ig .0402	0629	0321	1348	.1079	0914	1119	.0063	.0972	.1479

Correlations underlined are evidence of the main hypothesis

* significant at the .05 level

Table 2

Means And Standard Deviations of the Scores on Ten

Personality Traits and Scores on Ten Categories of Content-

Specific Adjectives.

Variable	Cases	Mean	Standard Deviation
Achievement trait	86	8.954	3.501
Affiliation trait	86	11.047	3.371
Autonomy	86	7.547	3.086
Dominance trait	86	10.454	3.803
Endurance trait	86	8.965	3.506
Nurturance trait	86	11.105	3.033
Order trait	86	7.047	4.743
Play trait	86	10.686	2.940
Sentience trait	86	10.314	3.741
Understanding trait	86	7.709	3.741
Achievement recall	86	.593	.925
Affiliation recall	86	1.442	1.298
Autonomy recall	86	1.326	1.359
Dominance recall	86	.523	.955
Endurance recall	86	.546	.777
Nurturance recall	86	1.116	1.172
Order recall	86	.954	1.354
Play recall	86	1.930	1.615
Sentience recall	86	.697	.855
Understanding recall	86	.349	.590

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Appendix A

CONSENT FORM

I,_____,voluntarily agree

to participate in this experiment. I understand that I will be taking a series of tests that will pose no physical or psychological risk to me. Also, I understand that I may decline participation at any time and that all information concerning my performance on the tests will be kept confidential.

date

signature

Appendix B

<u>Traits</u>	Adjectives	Social Desirability
achiovomont	atviving	· (022
achievement	Striving	6.932
achievement	accomplishing	0.992
achievement		7.992
achievement	purposerui	0.820
achievement	attaining	0.348
achievement	Industrious	/.058
achievement	acheiving	6.842
achievement	aspiring	0.//2
achievement	excelling	7.506
achievement	self-improving	7.090
acheivement	productive	6.970
achievement	ariving	5.696
achievement	ambitious	6.432
achievement	resourceful	/.368
achievement	competitive	6.038
achievement	talented	7.292
affiliation	neighborly	6.948
affiliation	loyal	8.150
affiliation	warm	7.234
affiliation	amiable	7.302
affiliation	good-natured	7.638
affiliation	friendly	7.768
affiliation	genial	7.010
affiliation	affable	6.232
affiliation	cooperative	6.936
affiliation	gregarious	6.040
affiliation	hospitable	6.916
affiliation	sociable	6.770
affiliation	good-willed	7.458
affiliation	affectionate	7.024
affiliation	cordial	6.834
affiliation	chummy	5.800
autonomy	liberated	5.900
autonomy	free	7.106
autonomy	self-reliant	7.228
autonomy	independent	7.188
autonomy	autonomous	5.946
autonomy	emancipated	5.744
autonomy	individualistic	c 7.266
autonomy	unshackled	5.706
autonomy	self-determined	d 7.022
autonomy	non-conforming	5.634
autonomy	unenslaved	6.060
autonomy	unhampered	5.822
autonomy	freedom-loving	7.226
autonomy	self-governing	6.644
autonomy	undominated	6.288
autonomy	sovereign	4.734

27

dominance endurance nurturance nurturance

nurturance

nurturance

governing controlling enforcing masterful influential persuasive forceful assertive leading directing regulating predominant judging powerful supervising willful enduring unfaltering persevering unyielding relentless tireless constant energetic sturdy zealous durable lasting dependable vigorous persistent steadfast sympathetic compassionate helpful benevolent encouraging caring protective comforting supporting aiding ministering consoling charitable assiting thoughtful kindhearted

5.440 4.900 5.166 6.146 5.972 5.594 5.356 4.852 6.332 5.688 5.082 5.138 5.404 5.856 4.954 5.736 6.432 6.092 6.426 4.170 5.026 6.334 5.600 7.066 6.210 5.798 6.388 6.122 7.920 6.772 6.632 6.296 6.872 6.974 7.172 6.404 6.546 7.142 5.302 6.820 5.984 6.354 5.252 5.864 6.242 6.524 7.620 7.230

2		
order	neat	6.828
order	organized	6.790
order	tidy	6.512
order	systematic	6.080
order	well-ordered	6 464
order	disciplined	6 272
order		0.272
order	prompt	7.028
order	consistent	6.400
order	orderly	6.250
order	clean	7.374
order	methodical	5.470
order	scheduled	5.286
order	planful	5.890
order	specific	5.848
order	deliberate	5.884
order	immaculate	5.396
play	playful	6.250
play	jovial	6.630
play	cheerful	7.152
plav	merrv	6.714
	iovful	6.792
	joking	6,156
play	iolly	6.502
play	prankish	5 004
play	sportive	5 179
	Sportive	5.470
play	funlouing	0.230
play		0.000
play	gleeful	5.890
play	carefree	5.//6
play	blithe	5.628
play	easy-going	7.070
play	adventurous	6.998
sentience	aesthetic	6.790
sentience	observant	7.336
sentience	discerning	7.008
sentience	discovering	7.020
sentience	aware	7.666
sentience	feeling	7.174
sentience	sensitive	7,280
sentience	sensious	5.498
sontionce	suscentive	5 050
sentiongo	koon	6 270
Sentionas	intonco	
sentience		5.590
sentience	cognizant	0.458
sentience	perceptive	/.914
sentience	responsive	7.036
sentience	noticing	6.596
sentience	discriminative	5.340

understanding understanding

7.322 inquiring 6.238 analytical 7.054 exploring 7.358 curious reflective 6.956 5.476 incisive investigative 6.272 6.340 probing scrutinizing 5.468 6.320 examining 6.806 astute 7.250 rational 6.902 inquisitive quizzical 5.436 6.392 comtemplative philosophical 5.974

Append	ix	С
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1.unenslaved	28.feeling	55.benevolent
2.carefree	29.lasting	56.prankish
3.deliberate	30.tireless	57.incisive
4.easy-going	31.competitive	58.caring
5.persevering	32.exploring	.59.purposeful
6.durable	33.gleeful	60.self-improving
7.chummy	34.hospitable	61.loyal
8.individualistic	35.undominated	62.compassionate
9.ambitious	36.enduring	63.directing
10.kindhearted	37.adventurous	64.affectionate
11.affable	38.inquiring	65.disciplined
12.systematic	39.organized	66.good-willed
13.predominant	40.playful	67.assisting
14.susceptive	41.warm	68.sociable
15.planful	42.powerful	69.reflective
16.resourceful	43.leading	70.enforcing
17.friendly	44.free	71.scheduled
18.controlling	45.freedom-loving	72.immaculate
19.unhampered	46.comforting	73.charitable
20.prompt	47.striving	74.keen
21.jovial	48.cordial	75.persistent
22.cooperative	49.philosophical	76.ministering
23.sovereign	50.funloving	77.consoling
24.merry	51.regulating	78.masterful
25.thoughtful	52.vigorous	79.self-governing
26.supporting	53.dependable	80.unyielding
27.discriminative	54.neat	81.observant

	82.specific	110.sturdy
	83.gregarious	111.persuasive
	84.curious	112.amiable
	85.constant	113.orderly
	86.blithe	114.sympathetic
	87.supervising	115.analytical
	88.qyizzical	116.zealous
	89.jolly	117.genial
	90.aiding	118.protective
	91.self-reliant	119.inquisitive
	92.perceptive	120.aesthetic
	93.non-conforming	121.good-natured
	94.sportive	122.acute
	95.responsive	123.rational
	96.industrious	124.clean
	97.methodical	125.willful
	98.joking	126.joyful
	99.energetic	127.excelling
1	00.driving	128.sensuous
1	01.helpful	129.contemplative
1	02.neighborly	130.assertive
1	03.achieving	131.lighthearted
1	04.governing	132.independent
1	05.autonomous	133.noticing
1	06.scrutinizing	134.steadfast
1	07.unshackled	135.productive
1	08.aspiring	136.relentless
1	09.forceful	137.cheerful

31 138.discovering 139.self-determined 140.intense 141.judging 142.examining 143.unfaltering 144.accomplishing 145.emancipated 146.cognizant 147.encouraging 148.talented 149.discerning 150.capable 151.astute 152.influential 153.well-ordered 154.liberated 155.investigative 156.attaining 157.consistent 158.probing 159.aware 160.tidy

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Appendix D

Anagram list

Rearrange the letters of each anagram to form a word.

1.tpudiate	12.tigf	
2.nbet	 13.rygol	
3.arahrctce	 14.ronoh	
4.nocosnitiutt	 15.dilidinyutavi	
5.nistodpisoi	 16.kacnk	
6.tacle	 17.domo	
7.teesme	 18.ralosanpyte	
8.cytlafu	 19.letnat	
9.mefa	 20.rempet	
L0.tefro	 21.manetrempet	
L1.seguni	 22.ranute	

Appendix E

Debriefing Procedure

The following areas were covered in the debriefing of the subjects at the completion of the experiment:

1.) The hypothesis of the study, and the variables that were being tested were revealed.

2.) The anagram list was used as a distractor task and was not a part of the variables studied.

3.) The experimenter's name and phone number was given in case of any need for further information.

4.) Appreciation was extended to subjects for their participation in the experiment.