

Assessment of Students' Opinions of English 151
at the Highland Lakes Campus

Prepared by:
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Office of Institutional Planning and Analysis
August 18, 1997

Introduction

This report provides an assessment of students' comfort with their writing skills and their self-perception of their writing abilities. The assessment is part of a study by the English faculty at the Highland Lakes campus of Oakland Community College.

Methodology

A pre-survey and post-survey was administered to students who enrolled in English 151 at the Highland Lakes campus during the Winter 97 term. The pre-survey was given to students in the first few weeks of the semester and the post-inquiry was administered near the end of the term. A total of 200 students participated in the survey. Only those students who had completed both a pre-test and post-test were included in the analysis.

The instrument, modified by Karen Robinson, was adapted from another assessment which was administered in a high school classroom which measured students' attitudes about poetry. Both instruments were adapted from the Revised Math Attitude Scale (Aiken & Dreger, 1961). The instrument consisted of nine questions which attempted to measure a students' perceptions of their comfort with writing and their writing abilities. The answers were coded as follows: 5=strongly agree; 4=agree; 3=undecided; 2=disagree; and 1=strongly disagree. The analysis which follows is a result of the students' answers to the questions. "Strongly agree" and "agree" responses were collapsed to "agree" and "strongly disagree" and "disagree" answers were condensed into "disagree." This was done in the attempt to make the data more useful for this report.

Results

The percentages of student responses, at the beginning and end of the semester, are appended (See Table 1 & Figure 1).

Pre-test Responses

Of those students responding to the questionnaire, 49 percent stated that they liked writing and felt at ease with the writing process, while 38 percent believed that writing was fun and fascinating. When asked if they enjoyed writing as a subject in school, 45 percent disagreed with the statement and 41 percent of the students suggested that they would not study more writing in college.

When asked if writing was a strain for them, 55 percent stated that it was not a source of tension, and 54 percent of the students did suggest they do not have a dislike of the term "writing." Fifty-six percent of the students did not believe that writing made them feel uncomfortable, restless, irritable and impatient. However, a majority, 87 percent, did not believe that writing should be banned as a college requirement. When asked if they would probably continue in the future to write on their own, 47 percent suggested that they would continue.

Post-test Responses

The following responses are from the same students who earlier provided answers to the pre-questionnaire. Of those students who responded, 62 percent stated that they liked writing very much and that they felt at ease with the topic. In addition, 44 percent suggested that writing was fun and fascinating. When asked if writing was something they enjoyed studying in school, only 29 percent agreed with this statement versus 49 percent who disagreed.

Sixty-two percent of the respondents suggested that they did not experience any strain or tension when they wrote for class assignments. In addition, only 21 percent of the students stated that writing made them feel irritable and restless. An overwhelming majority, 90 percent of all students who were questioned, recommended that writing should not be banned as a college requirement. Almost half, 48 percent of the students, suggested they would probably continue writing on their own in the future.

Analysis of Pre and Post Assessment Scores

Statistical analysis between the averages of the scores at the beginning and end of the term indicates that there was only one significant difference among the averages of the questions. The analysis discerned that there was a significant difference between the mean of the pre-test and post-test of the question, "I feel at ease writing, and I like it very much" (See Table 2). The average score on the pre-test was 3.22 (low undecided) while the mean on the post-test was 3.47 (high undecided). This suggests that there was a statistical difference in the scores between the responses students gave at the beginning of the semester compared to the end of the term. Seven other responses were not found to be significant between the pre-test and post-test. Analysis could not be conducted on the question pertaining to whether a student would study more writing in college. The averages between both the pre and post scores of this variable were identical, thus no statistical analysis could be performed on this data.

Discussion

There were marked improvements in students' attitudes and opinions regarding their general experience with writing, and more specifically, with English 151 at the Highland Lakes campus. The analysis revealed that there was a definite improvement in students' scores on feeling at ease with writing and liking the subject. The percentage who agreed with the statement increased from 49 percent in the beginning of the semester to 62 percent at the end of the term. This growth was also confirmed by the averages of the scores for both pre (3.220) and post (3.475) assessment. One could assume from the data that there is a connection between students taking English 151 at Highland Lakes and their comfort with writing.

Although there were percentage increases in the agreement responses of "writing is fun," and "will continue to study on my own," there was no statistical difference in the means of the

responses. Agreement with certain negative questions about writing decreased from pre-testing to post-testing, although, there were no significant differences among the means of these questions.

Conclusion

The findings of both the pre and post assessments indicate that there were percentage improvements in students' comfort with writing and their opinions that writing was fun. In addition, negative responses decreased in categories such as experiencing strain while writing and a sense of dislike. In addition, the results of the pre-assessment and post-assessment suggested that a majority of students believed that writing should not be banned as a college requirement.

Only one question produced statistically significant change over time. There was a statistical difference between the responses of the pre-test and post-test on the students' satisfaction with writing. The response suggests that students who enrolled in English 151 at Highland Lakes increased their enjoyment of writing and felt comfortable with the subject based on their responses at the beginning and end of the semester.

Since the analysis pertains only to students who enrolled at Highland Lakes, no generalizations regarding other English 151 classes at OCC can be made with the data. In addition, no inferences can be made that enrolling in English 151 causes students to like the subject or feel at ease with writing. Other factors may affect the outcomes (i.e., teaching styles, disposition to writing, time of day class is offered, previous experience or exposure to writing, etc.) of their responses.

Future assessments might study what factors increase (or decrease) a students' comfort with writing. Also, analyses of other campus' English 151 courses may provide additional context in which to properly interpret the results of the survey.

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T-Test

t-tests for Paired Samples

Variable	Number of pairs	Corr	2-tail Sig	Mean	SD	SE of Mean
PLEAS2	Writing ease			3.4750	.951	.067
	200	.522	.000			
PLEAS1				3.2200	.993	.070

Mean	Paired Differences SD	SE of Mean	t-value	df	2-tail Sig
.2550	.951	.067	3.79	199	.000
95% CI (.122, .388)					

t-tests for Paired Samples

Variable	Number of pairs	Corr	2-tail Sig	Mean	SD	SE of Mean
STRAIN2	strain when writing 200	.382	.000	2.5650	.949	.067
STRAIN1				2.7100	.954	.067

Mean	Paired Differences		t-value	df	2-tail Sig
	SD	SE of Mean			
-.1450	1.058	.075	-1.94	199	.054..
95% CI (-.293, .003)					

t-tests for Paired Samples

Variable	Number of pairs	Corr	2-tail Sig	Mean	SD	SE of Mean
DISLIKE2	dislike writing 200	.281	.000	2.5250	1.032	.073
DISLIKE1				2.7450	1.713	.121

Mean	Paired Differences		t-value	df	2-tail Sig
	SD	SE of Mean			
-.2200	1.734	.123	-1.79	199	.074
95% CI (-.462, .022)					

t-tests for Paired Samples

Variable	Number of pairs	Corr	2-tail Sig	Mean	SD	SE of Mean
ENJOY2	writing is fun 199	.471	.000	3.2060	.981	.070
ENJOY1				3.1055	1.046	.074

Mean	Paired Differences		t-value	df	2-tail Sig
	SD	SE of Mean			
.1005	1.044	.074	1.36	198	.176
95% CI (-.046, .247)					

t-tests for Paired Samples

Variable	Number of pairs	Corr	2-tail Sig	Mean	SD	SE of Mean
SUBJECT2	enjoy studying subject 199	.625	.000	2.8040	1.122	.080
SUBJECT1				2.8543	1.046	.074

Mean	Paired Differences		t-value	df	2-tail Sig
	SD	SE of Mean			
-.0503	.941	.067	-.75	198	.452
95% CI (-.182, .081)					

t-tests for Paired Samples

Variable	Number of pairs	Corr	2-tail Sig	Mean	SD	SE of Mean
UNEASY2	feel irritable w/ writing 200	.488	.000	2.5100	1.007	.071
UNEASY1				2.6200	1.030	.073

Mean	Paired Differences		t-value	df	2-tail Sig
	SD	SE of Mean			
-.1100	1.031	.073	-1.51	199	.133
95% CI (-.254, .034)					

t-tests for Paired Samples

Variable	Number of pairs	Corr	2-tail Sig	Mean	SD	SE of Mean
BANNED2	writing should be banned 200	.377	.000	1.6900	.893	.063
BANNED1				1.7950	.841	.059

Mean	Paired Differences		t-value	df	2-tail Sig
	SD	SE of Mean			
-.1050	.969	.069	-1.53	199	.127
95% CI (-.240, .030)					

t-tests for Paired Samples

Variable	Number of pairs	Corr	2-tail Sig	Mean	SD	SE of Mean
FUTURE2	continue to write on my own 199	.607	.000	3.3518	1.081	.077
FUTURE1				3.2764	1.044	.074

Mean	Paired Differences		t-value	df	2-tail Sig
	SD	SE of Mean			
.0754	.942	.067	1.13	198	.261
95% CI (-.056, .207)					

t-tests for Paired Samples

Variable	Number of pairs	Corr	2-tail Sig	Mean	SD	SE of Mean
STUDY2	study more writing 200	1.000	.000	2.8350	.971	.069
STUDY1				2.8350	.971	.069

>Warning # 11836. Command name: T-TEST
>The standard error of the difference is 0. This analysis cannot be
>performed.

TO: Marty Orlowski, Director
Office of Institutional Research
FROM: Karen Robinson, Instructor, Highland Lakes Campus
DATE: January 30, 1997
RE: Writing Opinionnaire

To re-cap our conversation of a couple of weeks ago, the Highland Lakes campus has distributed the attached writing Opinionnaire to all students registered in English 151 this winter semester. The pre-test was administered in the second or third week of class, and the post-test will be administered in the fourteenth week.

Our goal in using this instrument was to try to establish the students' self-perception of progress as a writer in an effort to find a quantifiable index of outcomes in English Composition since the other major tool of evaluation, the portfolio of student work, tends to make comparison somewhat more difficult due to the subjective nature of judging such work products. While this instrument still contains a subjective component, analyzing the results will be at least a bit more precise.

The items themselves were adapted from a Poetry Opinionnaire which David James used while doing graduate study on the effectiveness of using poetry in high school English classes and which had been adapted by him from an instrument used by university math faculty, who had found their results to be statistically significant. David James also had significant findings with the use of this format.

Our goals in re-shaping these items were to try to measure the students' comfort with writing and to establish their self-perceptions of success at handling writing tasks. We will be using this information to evaluate our teaching strategies and our writing assignments.

You agreed, I believe, to do a factor analysis on this instrument in order to evaluate its validity and specifically its coherence so that you will be prepared to analyze the results after we have post-tested in the spring. I will be calling you later in the semester to ask you in what form you would like to have that data.

Thank you very much for your guidance and support in this matter. It is a pleasure, as always, to work with you.

pc: David James
Kay Burdette

STUDENT ID #

WRITING OPINIONNAIRE

Name _____ Class _____ Section _____

Date _____

Read each statement carefully and circle the phrase below which best represents your current feeling. There are no right or wrong answers, and your responses will not affect your grade in any way. Please be honest and truthful.

please double

1. I feel at ease writing, and I like it very much.

5 strongly agree 4 agree 3 undecided 2 disagree 1 strongly disagree

(Strain)

2. I am always under a terrible strain when I write.

strongly agree agree undecided disagree strongly disagree

dislike

3. When I hear the word "writing," I have a feeling of dislike.

strongly agree agree undecided disagree strongly disagree

enjoy double

4. Writing is fascinating and fun.

strongly agree agree undecided disagree strongly disagree

subject

5. Writing is a subject in school which I have always enjoyed studying.

strongly agree agree undecided disagree strongly disagree

uneasy

double

6. Writing makes me feel uncomfortable, restless, irritable, and impatient.

strongly agree agree undecided disagree strongly disagree

study

7. If I had my way, I'd study more writing in college.

DV (comfort)

strongly agree agree undecided disagree strongly disagree

banned unclear

8. Writing should be banned as a college requirement.

strongly agree agree undecided disagree strongly disagree

future unclear

9. In the future, I will probably continue to write on my own.

DV (success)

strongly agree agree undecided disagree strongly disagree

use scale

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Aggregated Correlations

- - Correlation Coefficients - -

	PLEASURE	STRAIN	DISLIKE	ENJOY	SUBJECT	UNEASY
PLEASURE	1.0000 (400) P= .	-.5496 (400) P= .000	-.4418 (400) P= .000	.6431 (398) P= .000	.5125 (399) P= .000	-.6232 (399) P= .000
STRAIN	-.5496 (400) P= .000	1.0000 (400) P= .	.3934 (400) P= .000	-.4186 (398) P= .000	-.3774 (399) P= .000	.6575 (399) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEASURE	STRAIN	DISLIKE	ENJOY	SUBJECT	UNEASY
DISLIKE	-.4418 (400) P= .000	.3934 (400) P= .000	1.0000 (400) P= .	-.4460 (398) P= .000	-.3395 (399) P= .000	.4476 (399) P= .000
ENJOY	.6431 (398) P= .000	-.4186 (398) P= .000	-.4460 (398) P= .000	1.0000 (398) P= .	.5067 (397) P= .000	-.5060 (397) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEASURE	STRAIN	DISLIKE	ENJOY	SUBJECT	UNEASY
SUBJECT	.5125 (399) P= .000	-.3774 (399) P= .000	-.3395 (399) P= .000	.5067 (397) P= .000	1.0000 (399) P= .	-.5004 (398) P= .000
UNEASY	-.6232 (399) P= .000	.6575 (399) P= .000	.4476 (399) P= .000	-.5060 (397) P= .000	-.5004 (398) P= .000	1.0000 (399) P= .

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEASURE	STRAIN	DISLIKE	ENJOY	SUBJECT	UNEASY
STUDY	.4543 (400) P= .000	-.2292 (400) P= .000	-.2981 (400) P= .000	.5615 (398) P= .000	.4352 (399) P= .000	-.3119 (399) P= .000
BANNED	-.2325 (400) P= .000	.1924 (400) P= .000	.2103 (400) P= .000	-.2487 (398) P= .000	-.2675 (399) P= .000	.2762 (399) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEASURE	STRAIN	DISLIKE	ENJOY	SUBJECT	UNEASY
FUTURE	.4968 (399) P= .000	-.2888 (399) P= .000	-.3597 (399) P= .000	.5704 (397) P= .000	.4340 (398) P= .000	-.3662 (398) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	STUDY	BANNED	FUTURE
PLEASURE	.4543 (400) P= .000	-.2325 (400) P= .000	.4968 (399) P= .000
STRAIN	-.2292 (400) P= .000	.1924 (400) P= .000	-.2888 (399) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	STUDY	BANNED	FUTURE
DISLIKE	-.2981 (400) P= .000	.2103 (400) P= .000	-.3597 (399) P= .000
ENJOY	.5615 (398) P= .000	-.2487 (398) P= .000	.5704 (397) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	STUDY	BANNED	FUTURE
SUBJECT	.4352 (399) P= .000	-.2675 (399) P= .000	.4340 (398) P= .000
UNEASY	-.3119 (399) P= .000	.2762 (399) P= .000	-.3662 (398) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	STUDY	BANNED	FUTURE
STUDY	1.0000 (400) P= .	-.3181 (400) P= .000	.5237 (399) P= .000
BANNED	-.3181 (400) P= .000	1.0000 (400) P= .	-.2770 (399) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	STUDY	BANNED	FUTURE
FUTURE	.5237 (399) P= .000	-.2770 (399) P= .000	1.0000 (399) P= .

(Coefficient / (Cases) / 2-tailed Significance)

Disaggregated Correlations

- - Correlation Coefficients - -

	PLEAS2	PLEAS1	STRAIN2	STRAIN1	DISLIKE2	DISLIKE1
PLEAS2	1.0000 (400) P= .	.5220 (200) P= .000	-.5054 (400) P= .000	-.4235 (200) P= .000	-.6081 (400) P= .000	-.2677 (200) P= .000
PLEAS1	.5220 (200) P= .000	1.0000 (200) P= .	-.3032 (200) P= .000	-.5633 (200) P= .000	-.4271 (200) P= .000	-.3508 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEAS2	PLEAS1	STRAIN2	STRAIN1	DISLIKE2	DISLIKE1
STRAIN2	-.5054 (400) P= .000	-.3032 (200) P= .000	1.0000 (400) P= .	.3817 (200) P= .000	.5436 (400) P= .000	.1726 (200) P= .015
STRAIN1	-.4235 (200) P= .000	-.5633 (200) P= .000	.3817 (200) P= .000	1.0000 (200) P= .	.3392 (200) P= .000	.2927 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	PLEAS2	PLEAS1	STRAIN2	STRAIN1	DISLIKE2	DISLIKE1
DISLIKE2	-.6081 (400) P= .000	-.4271 (200) P= .000	.5436 (400) P= .000	.3392 (200) P= .000	1.0000 (400) P= .	.2808 (200) P= .000
DISLIKE1	-.2677 (200) P= .000	-.3508 (200) P= .000	.1726 (200) P= .015	.2927 (200) P= .000	.2808 (200) P= .000	1.0000 (200) P= .

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEAS2	PLEAS1	STRAIN2	STRAIN1	DISLIKE2	DISLIKE1
ENJOY2	.6473 (398) P= .000	.5030 (199) P= .000	-.3935 (398) P= .000	-.3086 (199) P= .000	-.5236 (398) P= .000	-.2480 (199) P= .000
ENJOY1	.4223 (200) P= .000	.5766 (200) P= .000	-.2808 (200) P= .000	-.3708 (200) P= .000	-.4823 (200) P= .000	-.3826 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEAS2	PLEAS1	STRAIN2	STRAIN1	DISLIKE2	DISLIKE1
SUBJECT2	.5108 (398) P= .000	.4684 (199) P= .000	-.3728 (398) P= .000	-.3619 (199) P= .000	-.4720 (398) P= .000	-.2302 (199) P= .001
SUBJECT1	.4106 (200) P= .000	.5474 (200) P= .000	-.2643 (200) P= .000	-.3805 (200) P= .000	-.4293 (200) P= .000	-.2786 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEAS2	PLEAS1	STRAIN2	STRAIN1	DISLIKE2	DISLIKE1
UNEASY2	-.6010 (400) P= .000	-.3939 (200) P= .000	.6016 (400) P= .000	.3690 (200) P= .000	.6638 (400) P= .000	.1922 (200) P= .006
UNEASY1	-.4921 (200) P= .000	-.6203 (200) P= .000	.3905 (200) P= .000	.6594 (200) P= .000	.4629 (200) P= .000	.3207 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEAS2	PLEAS1	STRAIN2	STRAIN1	DISLIKE2	DISLIKE1
BANNED2	-.2372 (400) P= .000	-.1323 (200) P= .062	.1787 (400) P= .000	.0886 (200) P= .212	.2578 (400) P= .000	.0762 (200) P= .284
BANNED1	-.2297 (200) P= .001	-.2105 (200) P= .003	.2153 (200) P= .002	.1824 (200) P= .010	.2754 (200) P= .000	.1764 (200) P= .012

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEAS2	PLEAS1	STRAIN2	STRAIN1	DISLIKE2	DISLIKE1
FUTURE2	.4800 (398) P= .000	.4083 (199) P= .000	-.2830 (398) P= .000	-.2883 (199) P= .000	-.4584 (398) P= .000	-.2597 (199) P= .000
FUTURE1	.4358 (200) P= .000	.5096 (200) P= .000	-.1987 (200) P= .005	-.2935 (200) P= .000	-.4156 (200) P= .000	-.3013 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	PLEAS2	PLEAS1	STRAIN2	STRAIN1	DISLIKE2	DISLIKE1
STUDY2	.3948 (400) P= .000	.4600 (200) P= .000	-.1202 (400) P= .016	-.3015 (200) P= .000	-.3550 (400) P= .000	-.2581 (200) P= .000
STUDY1	.3521 (200) P= .000	.4600 (200) P= .000	-.0674 (200) P= .343	-.3015 (200) P= .000	-.3445 (200) P= .000	-.2581 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	ENJOY2	ENJOY1	SUBJECT2	SUBJECT1	UNEASY2	UNEASY1
PLEAS2	.6473 (398) P= .000	.4223 (200) P= .000	.5108 (398) P= .000	.4106 (200) P= .000	-.6010 (400) P= .000	-.4921 (200) P= .000
PLEAS1	.5030 (199) P= .000	.5766 (200) P= .000	.4684 (199) P= .000	.5474 (200) P= .000	-.3939 (200) P= .000	-.6203 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

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- - Correlation Coefficients - -

	ENJOY2	ENJOY1	SUBJECT2	SUBJECT1	UNEASY2	UNEASY1
STRAIN2	-.3935 (398) P= .000	-.2808 (200) P= .000	-.3728 (398) P= .000	-.2643 (200) P= .000	.6016 (400) P= .000	.3905 (200) P= .000
STRAIN1	-.3086 (199) P= .000	-.3708 (200) P= .000	-.3619 (199) P= .000	-.3805 (200) P= .000	.3690 (200) P= .000	.6594 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	ENJOY2	ENJOY1	SUBJECT2	SUBJECT1	UNEASY2	UNEASY1
DISLIKE2	-.5236 (398) P= .000	-.4823 (200) P= .000	-.4720 (398) P= .000	-.4293 (200) P= .000	.6638 (400) P= .000	.4629 (200) P= .000
DISLIKE1	-.2480 (199) P= .000	-.3826 (200) P= .000	-.2302 (199) P= .001	-.2786 (200) P= .000	.1922 (200) P= .006	.3207 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	ENJOY2	ENJOY1	SUBJECT2	SUBJECT1	UNEASY2	UNEASY1
ENJOY2	1.0000 (398) P= .	.4707 (199) P= .000	.4404 (396) P= .000	.4214 (199) P= .000	-.4285 (398) P= .000	-.3570 (199) P= .000
ENJOY1	.4707 (199) P= .000	1.0000 (200) P= .	.3577 (199) P= .000	.5501 (200) P= .000	-.3350 (200) P= .000	-.5396 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	ENJOY2	ENJOY1	SUBJECT2	SUBJECT1	UNEASY2	UNEASY1
SUBJECT2	.4404 (396) P= .000	.3577 (199) P= .000	1.0000 (398) P= .	.6250 (199) P= .000	-.4451 (398) P= .000	-.4382 (199) P= .000
SUBJECT1	.4214 (199) P= .000	.5501 (200) P= .000	.6250 (199) P= .000	1.0000 (200) P= .	-.3613 (200) P= .000	-.5602 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	ENJOY2	ENJOY1	SUBJECT2	SUBJECT1	UNEASY2	UNEASY1
UNEASY2	-.4285 (398) P= .000	-.3350 (200) P= .000	-.4451 (398) P= .000	-.3613 (200) P= .000	1.0000 (400) P= .	.4879 (200) P= .000
UNEASY1	-.3570 (199) P= .000	-.5396 (200) P= .000	-.4382 (199) P= .000	-.5602 (200) P= .000	.4879 (200) P= .000	1.0000 (200) P= .

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	ENJOY2	ENJOY1	SUBJECT2	SUBJECT1	UNEASY2	UNEASY1
BANNED2	-.2493 (398) P= .000	-.1247 (200) P= .078	-.2650 (398) P= .000	-.2439 (200) P= .001	.2325 (400) P= .000	.1663 (200) P= .019
BANNED1	-.2050 (199) P= .004	-.2143 (200) P= .002	-.2886 (199) P= .000	-.2862 (200) P= .000	.1716 (200) P= .015	.2810 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	ENJOY2	ENJOY1	SUBJECT2	SUBJECT1	UNEASY2	UNEASY1
FUTURE2	.5542 (396) P= .000	.4781 (199) P= .000	.3765 (396) P= .000	.3930 (199) P= .000	-.2971 (398) P= .000	-.3651 (199) P= .000
FUTURE1	.4423 (199) P= .000	.5581 (200) P= .000	.3866 (199) P= .000	.4794 (200) P= .000	-.3067 (200) P= .000	-.3752 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	ENJOY2	ENJOY1	SUBJECT2	SUBJECT1	UNEASY2	UNEASY1
STUDY2	.4463 (398) P= .000	.4981 (200) P= .000	.3830 (398) P= .000	.4571 (200) P= .000	-.2398 (400) P= .000	-.3545 (200) P= .000
STUDY1	.3440 (199) P= .000	.4981 (200) P= .000	.3369 (199) P= .000	.4571 (200) P= .000	-.2064 (200) P= .003	-.3545 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	BANNED2	BANNED1	FUTURE2	FUTURE1	STUDY2	STUDY1
PLEAS2	-.2372 (400) P= .000	-.2297 (200) P= .001	.4800 (398) P= .000	.4358 (200) P= .000	.3948 (400) P= .000	.3521 (200) P= .000
PLEAS1	-.1323 (200) P= .062	-.2105 (200) P= .003	.4083 (199) P= .000	.5096 (200) P= .000	.4600 (200) P= .000	.4600 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	BANNED2	BANNED1	FUTURE2	FUTURE1	STUDY2	STUDY1
STRAIN2	.1787 (400) P= .000	.2153 (200) P= .002	-.2830 (398) P= .000	-.1987 (200) P= .005	-.1202 (400) P= .016	-.0674 (200) P= .343
STRAIN1	.0886 (200)	.1824 (200)	-.2883 (199)	-.2935 (200)	-.3015 (200)	-.3015 (200)

P= .212 P= .010 P= .000 P= .000 P= .000 P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	BANNED2	BANNED1	FUTURE2	FUTURE1	STUDY2	STUDY1
DISLIKE2	.2578 (400) P= .000	.2754 (200) P= .000	-.4584 (398) P= .000	-.4156 (200) P= .000	-.3550 (400) P= .000	-.3445 (200) P= .000
DISLIKE1	.0762 (200) P= .284	.1764 (200) P= .012	-.2597 (199) P= .000	-.3013 (200) P= .000	-.2581 (200) P= .000	-.2581 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	BANNED2	BANNED1	FUTURE2	FUTURE1	STUDY2	STUDY1
ENJOY2	-.2493 (398) P= .000	-.2050 (199) P= .004	.5542 (396) P= .000	.4423 (199) P= .000	.4463 (398) P= .000	.3440 (199) P= .000
ENJOY1	-.1247 (200) P= .078	-.2143 (200) P= .002	.4781 (199) P= .000	.5581 (200) P= .000	.4981 (200) P= .000	.4981 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	BANNED2	BANNED1	FUTURE2	FUTURE1	STUDY2	STUDY1
SUBJECT2	-.2650 (398) P= .000	-.2886 (199) P= .000	.3765 (396) P= .000	.3866 (199) P= .000	.3830 (398) P= .000	.3369 (199) P= .000
SUBJECT1	-.2439 (200) P= .001	-.2862 (200) P= .000	.3930 (199) P= .000	.4794 (200) P= .000	.4571 (200) P= .000	.4571 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	BANNED2	BANNED1	FUTURE2	FUTURE1	STUDY2	STUDY1
UNEASY2	.2325 (400) P= .000	.1716 (200) P= .015	-.2971 (398) P= .000	-.3067 (200) P= .000	-.2398 (400) P= .000	-.2064 (200) P= .003
UNEASY1	.1663 (200) P= .019	.2810 (200) P= .000	-.3651 (199) P= .000	-.3752 (200) P= .000	-.3545 (200) P= .000	-.3545 (200) P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	BANNED2	BANNED1	FUTURE2	FUTURE1	STUDY2	STUDY1
BANNED2	1.0000 (400)	.3767 (200)	-.3287 (398)	-.0970 (200)	-.3003 (400)	-.2505 (200)

	P= .	P= .000	P= .000	P= .172	P= .000	P= .000
BANNED1	.3767	1.0000	-.2306	-.2165	-.2757	-.2757
	(200)	(200)	(199)	(200)	(200)	(200)
	P= .000	P= .	P= .001	P= .002	P= .000	P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	BANNED2	BANNED1	FUTURE2	FUTURE1	STUDY2	STUDY1
FUTURE2	-.3287	-.2306	1.0000	.6071	.4544	.4100
	(398)	(199)	(398)	(199)	(398)	(199)
	P= .000	P= .001	P= .	P= .000	P= .000	P= .000
FUTURE1	-.0970	-.2165	.6071	1.0000	.5421	.5421
	(200)	(200)	(199)	(200)	(200)	(200)
	P= .172	P= .002	P= .000	P= .	P= .000	P= .000

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

- - Correlation Coefficients - -

	BANNED2	BANNED1	FUTURE2	FUTURE1	STUDY2	STUDY1
STUDY2	-.3003	-.2757	.4544	.5421	1.0000	1.0000
	(400)	(200)	(398)	(200)	(400)	(200)
	P= .000	P= .000	P= .000	P= .000	P= .	P= .000
STUDY1	-.2505	-.2757	.4100	.5421	1.0000	1.0000
	(200)	(200)	(199)	(200)	(200)	(200)
	P= .000	P= .000	P= .000	P= .000	P= .000	P= .

(Coefficient / (Cases) / 2-tailed Significance)

" . " is printed if a coefficient cannot be computed

SECTION Course section no.

823	24	6.0	6.0	100.0
	-----	-----	-----	
Total	400	100.0	100.0	

Hi-Res Chart # 31:Bar chart of course section no.

Valid cases 400 Missing cases 0

Pre test = 1

PLEASURE Writing ease

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	11	5.5	5.5	5.5
disagree	2	40	20.0	20.0	25.5
undecided	3	51	25.5	25.5	51.0
agree	4	90	45.0	45.0	96.0
strongly agree	5	8	4.0	4.0	100.0
Total		200	100.0	100.0	

Hi-Res Chart # 12: Bar chart of writing ease

Valid cases 200 Missing cases 0

STRAIN strain when writing

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	7	3.5	3.5	3.5
disagree	2	102	51.0	51.0	54.5
undecided	3	38	19.0	19.0	73.5
agree	4	48	24.0	24.0	97.5
strongly disagree	5	5	2.5	2.5	100.0
		-----	-----	-----	
Total		200	100.0	100.0	

Hi-Res Chart # 13: Bar chart of strain when writing

Valid cases 200 Missing cases 0

DISLIKE dislike writing

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	21	10.5	10.5	10.5
disagree	2	85	42.5	42.5	53.0
undecided	3	41	20.5	20.5	73.5
agree	4	47	23.5	23.5	97.0
strongly agree	5	5	2.5	2.5	99.5
	22	1	.5	.5	100.0
		-----	-----	-----	
Total		200	100.0	100.0	

Hi-Res Chart # 14: Bar chart of dislike writing

Valid cases 200 Missing cases 0

ENJOY writing is fun

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	8	4.0	4.0	4.0
disagree	2	51	25.5	25.6	29.6
undecided	3	66	33.0	33.2	62.8
agree	4	65	32.5	32.7	95.5
strongly agree	5	9	4.5	4.5	100.0
	9	1	.5	Missing	
	Total	200	100.0	100.0	

Hi-Res Chart # 15: Bar chart of writing is fun

Valid cases 199 Missing cases 1

SUBJECT enjoy studying subject

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	14	7.0	7.0	7.0
disagree	2	75	37.5	37.5	44.5
undecided	3	50	25.0	25.0	69.5
agree	4	50	25.0	25.0	94.5
strongly agree	5	11	5.5	5.5	100.0
	Total	200	100.0	100.0	

Hi-Res Chart # 16: Bar chart of enjoy studying subject

Valid cases 200 Missing cases 0

UNEASY feel irritable w/ writing

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	20	10.0	10.0	10.0
disagree	2	91	45.5	45.5	55.5
undecided	3	41	20.5	20.5	76.0
agree	4	41	20.5	20.5	96.5
strongly agree	5	7	3.5	3.5	100.0
Total		200	100.0	100.0	

Hi-Res Chart # 17: Bar chart of feel irritable w/ writing

Valid cases 200 Missing cases 0

STUDY study more writing

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	12	6.0	6.0	6.0
disagree	2	69	34.5	34.5	40.5
undecided	3	67	33.5	33.5	74.0
agree	4	44	22.0	22.0	96.0
strongly agree	5	8	4.0	4.0	100.0
	Total	200	100.0	100.0	

Hi-Res Chart # 18:Bar chart of study more writing

Valid cases 200 Missing cases 0

BANNED writing should be banned

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	81	40.5	40.5	40.5
disagree	2	91	45.5	45.5	86.0
undecided	3	18	9.0	9.0	95.0
agree	4	8	4.0	4.0	99.0
strongly agree	5	2	1.0	1.0	100.0
		-----	-----	-----	
	Total	200	100.0	100.0	

Hi-Res Chart # 19:Bar chart of writing should be banned

Valid cases 200 Missing cases 0

FUTURE continue to write on my own

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	8	4.0	4.0	4.0
disagree	2	43	21.5	21.5	25.5
undecided	3	56	28.0	28.0	53.5
agree	4	72	36.0	36.0	89.5
strongly agree	5	21	10.5	10.5	100.0
		-----	-----	-----	
Total		200	100.0	100.0	

Hi-Res Chart # 20: Bar chart of continue to write on my own

Valid cases 200 Missing cases 0

Post-Test = 2

PLEASURE Writing ease

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	4	2.0	2.0	2.0
disagree	2	29	14.5	14.5	16.5
undecided	3	56	28.0	28.0	44.5
agree	4	88	44.0	44.0	88.5
strongly agree	5	23	11.5	11.5	100.0
	Total	200	100.0	100.0	

Hi-Res Chart # 22: Bar chart of writing ease

Valid cases 200 Missing cases 0

STRAIN strain when writing

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	13	6.5	6.5	6.5
disagree	2	110	55.0	55.0	61.5
undecided	3	32	16.0	16.0	77.5
agree	4	41	20.5	20.5	98.0
strongly disagree	5	4	2.0	2.0	100.0
Total		200	100.0	100.0	

Hi-Res Chart # 23:Bar chart of strain when writing

Valid cases 200 Missing cases 0

DISLIKE dislike writing

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	25	12.5	12.5	12.5
disagree	2	100	50.0	50.0	62.5
undecided	3	30	15.0	15.0	77.5
agree	4	41	20.5	20.5	98.0
strongly agree	5	4	2.0	2.0	100.0
Total		200	100.0	100.0	

Hi-Res Chart # 24:Bar chart of dislike writing

Valid cases 200 Missing cases 0

ENJOY writing is fun

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	8	4.0	4.0	4.0
disagree	2	42	21.0	21.1	25.1
undecided	3	63	31.5	31.7	56.8
agree	4	73	36.5	36.7	93.5
strongly agree	5	13	6.5	6.5	100.0
	9	1	.5	Missing	
		-----	-----	-----	
Total		200	100.0	100.0	

Hi-Res Chart # 25:Bar chart of writing is fun

Valid cases 199 Missing cases 1

SUBJECT enjoy studying subject

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	16	8.0	8.0	8.0
disagree	2	81	40.5	40.7	48.7
undecided	3	44	22.0	22.1	70.9
agree	4	40	20.0	20.1	91.0
strongly agree	5	18	9.0	9.0	100.0
	9	1	.5	Missing	
	Total	200	100.0	100.0	

Hi-Res Chart # 26: Bar chart of enjoy studying subject

Valid cases 199 Missing cases 1

UNEASY feel irritable w/ writing

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	27	13.5	13.6	13.6
disagree	2	95	47.5	47.7	61.3
undecided	3	35	17.5	17.6	78.9
agree	4	40	20.0	20.1	99.0
strongly agree	5	2	1.0	1.0	100.0
	9	1	.5	Missing	
Total		200	100.0	100.0	

Hi-Res Chart # 27: Bar chart of feel irritable w/ writing

Valid cases 199 Missing cases 1

STUDY study more writing

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	8	4.0	4.0	4.0
disagree	2	62	31.0	31.0	35.0
undecided	3	67	33.5	33.5	68.5
agree	4	49	24.5	24.5	93.0
strongly agree	5	14	7.0	7.0	100.0
		-----	-----	-----	
Total		200	100.0	100.0	

Hi-Res Chart # 28:Bar chart of study more writing

Valid cases 200 Missing cases 0

BANNED writing should be banned

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	99	49.5	49.5	49.5
disagree	2	79	39.5	39.5	89.0
undecided	3	13	6.5	6.5	95.5
agree	4	3	1.5	1.5	97.0
strongly agree	5	6	3.0	3.0	100.0
		-----	-----	-----	
Total		200	100.0	100.0	

Hi-Res Chart # 29:Bar chart of writing should be banned

Valid cases 200 Missing cases 0

FUTURE continue to write on my own

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
strongly disagree	1	7	3.5	3.5	3.5
disagree	2	40	20.0	20.1	23.6
undecided	3	56	28.0	28.1	51.8
agree	4	66	33.0	33.2	84.9
strongly agree	5	30	15.0	15.1	100.0
	9	1	.5	Missing	
		-----	-----	-----	
Total		200	100.0	100.0	

Hi-Res Chart # 30:Bar chart of continue to write on my own

Valid cases 199 Missing cases 1

SECTION Course section no.

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
	95	24	6.0	6.0	6.0 Nelles
	97	28	7.0	7.0	13.0 Hollander
	98	24	6.0	6.0	19.0 Hollander
	99	28	7.0	7.0	26.0 Hollander
	100	34	8.5	8.5	34.5 Robinson
	101	36	9.0	9.0	43.5 Robinson
	102	32	8.0	8.0	51.5 Nelles
	103	40	10.0	10.0	61.5 Robinson
	819	36	9.0	9.0	70.5 Plehas
	820	30	7.5	7.5	78.0 Riestree
	821	44	11.0	11.0	89.0 Robinson
	822	20	5.0	5.0	94.0 SKaer

----- FACTOR ANALYSIS -----

Initial Statistics:

Variable	Communality	*	Factor	Eigenvalue	Pct of Var	Cum Pct
PLEASURE	1.00000	*	1	4.36646	48.5	48.5
STRAIN	1.00000	*	2	1.08223	12.0	60.5
DISLIKE	1.00000	*	3	.83881	9.3	69.9
ENJOY	1.00000	*	4	.66935	7.4	77.3
SUBJECT	1.00000	*	5	.54260	6.0	83.3
UNEASY	1.00000	*	6	.46494	5.2	88.5
STUDY	1.00000	*	7	.40353	4.5	93.0
BANNED	1.00000	*	8	.32313	3.6	96.6
FUTURE	1.00000	*	9	.30895	3.4	100.0

----- FACTOR ANALYSIS -----

PC extracted 2 factors.

Factor Matrix:

	Factor 1	Factor 2
PLEASURE	.82014	-.14261
ENJOY	.80574	.14377
UNEASY	-.76754	.40698
SUBJECT	.71242	.06311
FUTURE	.69746	.37016
STRAIN	-.66834	.54735
STUDY	.65984	.51901

----- FACTOR ANALYSIS -----

	Factor 1	Factor 2
DISLIKE	-.62710	.19283
BANNED	-.43151	-.35839

Final Statistics:

Variable	Communality	*	Factor	Eigenvalue	Pct of Var	Cum Pct
PLEASURE	.69296	*	1	4.36646	48.5	48.5
STRAIN	.74627	*	2	1.08223	12.0	60.5

----- FACTOR ANALYSIS -----

Variable	Communality	*	Factor	Eigenvalue	Pct of Var	Cum Pct
DISLIKE	.43043	*				
ENJOY	.66988	*				
SUBJECT	.51153	*				
UNEASY	.75476	*				
STUDY	.70475	*				
BANNED	.31464	*				
FUTURE	.62346	*				

----- FACTOR ANALYSIS -----

VARIMAX rotation 1 for extraction 1 in analysis 1 - Kaiser Normalization.

VARIMAX converged in 3 iterations.

Rotated Factor Matrix:

	Factor 1	Factor 2
STRAIN	.86300	-.03866
UNEASY	.84316	-.20940

----- FACTOR ANALYSIS -----

	Factor 1	Factor 2
PLEASURE	-.70582	.44134
DISLIKE	.59562	-.27509

STUDY	-.14477	.82692
FUTURE	-.27216	.74121
ENJOY	-.50391	.64495
BANNED	.08201	-.55490
SUBJECT	-.48829	.52259

----- FACTOR ANALYSIS -----

Factor Transformation Matrix:

	Factor 1	Factor 2
Factor 1	-.74452	.66760
Factor 2	.66760	.74452

*Disaggregated
F.A.*

----- FACTOR ANALYSIS -----

Analysis number 1 Listwise deletion of cases with missing values

Extraction 1 for analysis 1, Principal Components Analysis (PC)

----- FACTOR ANALYSIS -----

Initial Statistics:

Variable	Communality	* Factor	Eigenvalue	Pct of Var	Cum Pct
PLEAS2	1.00000	* 1	7.54012	41.9	41.9
STRAIN2	1.00000	* 2	1.86656	10.4	52.3
DISLIKE2	1.00000	* 3	1.31809	7.3	59.6
ENJOY2	1.00000	* 4	1.06848	5.9	65.5
SUBJECT2	1.00000	* 5	.84943	4.7	70.2
UNEASY2	1.00000	* 6	.78022	4.3	74.6
STUDY2	1.00000	* 7	.69987	3.9	78.5
BANNED2	1.00000	* 8	.63963	3.6	82.0
FUTURE2	1.00000	* 9	.57287	3.2	85.2

----- FACTOR ANALYSIS -----

Variable	Communality	* Factor	Eigenvalue	Pct of Var	Cum Pct
PLEAS1	1.00000	* 10	.51859	2.9	88.1
STRAIN1	1.00000	* 11	.42036	2.3	90.4
DISLIKE1	1.00000	* 12	.36660	2.0	92.4
ENJOY1	1.00000	* 13	.30673	1.7	94.2
SUBJECT1	1.00000	* 14	.29925	1.7	95.8
UNEASY1	1.00000	* 15	.28176	1.6	97.4
STUDY1	1.00000	* 16	.25230	1.4	98.8
BANNED1	1.00000	* 17	.21914	1.2	100.0
FUTURE1	1.00000	* 18	.00000	.0	100.0

----- FACTOR ANALYSIS -----

Hi-Res Chart # 3: Factor scree plot

PC extracted 4 factors.

Factor Matrix:

	Factor 1	Factor 2	Factor 3	Factor 4
PLEAS1	.75299	.07918	.31602	-.09230
PLEAS2	.75195	-.28819	-.04861	.20412
DISLIKE2	-.73794	.32373	.13223	-.15650
SUBJECT1	.72778	.13583	.06030	-.16427
UNEASY1	-.72345	.10691	-.31722	.34634

----- FACTOR ANALYSIS -----

	Factor 1	Factor 2	Factor 3	Factor 4
ENJOY1	.72270	.19673	.21166	.09075
ENJOY2	.69732	-.12893	-.11995	.34897
FUTURE1	.68819	.29954	.06422	.30694
SUBJECT2	.68422	-.12934	-.08867	-.11949
FUTURE2	.67008	.09666	-.19502	.31714
STUDY1	.65214	.62887	-.12092	.03207
STUDY2	.65214	.62887	-.12092	.03207
UNEASY2	-.64871	.52215	.05447	-.10573
STRAIN1	-.60183	.12384	-.41104	.36309
DISLIKE1	-.44963	-.09827	-.25574	.14283
STRAIN2	-.53288	.61535	.05798	-.00017

----- FACTOR ANALYSIS -----

	Factor 1	Factor 2	Factor 3	Factor 4
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BANNED2	-.35207	.02319	.70961	.27597
BANNED1	-.40879	-.06045	.45980	.51590

Final Statistics:

Variable	Communality	* Factor	Eigenvalue	Pct of Var	Cum Pct
PLEAS2	.69251	* 1	7.54012	41.9	41.9

----- FACTOR ANALYSIS -----

Variable	Communality	* Factor	Eigenvalue	Pct of Var	Cum Pct
STRAIN2	.66598	* 2	1.86656	10.4	52.3
DISLIKE2	.69134	* 3	1.31809	7.3	59.6
ENJOY2	.63904	* 4	1.06848	5.9	65.5
SUBJECT2	.50702	*			
UNEASY2	.70761	*			
STUDY2	.83641	*			
BANNED2	.70420	*			
FUTURE2	.59696	*			
PLEAS1	.68165	*			
STRAIN1	.67832	*			
DISLIKE1	.29763	*			
ENJOY1	.61404	*			
SUBJECT1	.57873	*			

----- FACTOR ANALYSIS -----

Variable	Communality	* Factor	Eigenvalue	Pct of Var	Cum Pct
UNEASY1	.75539	*			
STUDY1	.83641	*			
BANNED1	.64833	*			
FUTURE1	.66166	*			

----- FACTOR ANALYSIS -----

VARIMAX rotation 1 for extraction 1 in analysis 1 - Kaiser Normalization.

VARIMAX converged in 7 iterations.

Rotated Factor Matrix:

	Factor 1	Factor 2	Factor 3	Factor 4
UNEASY2	-.79089	-.02791	-.26504	.10526
STRAIN2	-.74578	.14517	-.26251	.14074

----- FACTOR ANALYSIS -----

	Factor 1	Factor 2	Factor 3	Factor 4
DISLIKE2	-.74105	-.24921	-.23119	.16317
PLEAS2	.72896	.29327	.26333	-.07599
ENJOY2	.65679	.44224	.10398	-.03570
SUBJECT2	.46073	.24848	.38168	-.29552
STUDY2	-.01255	.84415	.24219	-.25496
STUDY1	-.01255	.84415	.24219	-.25496
FUTURE1	.30933	.71416	.22894	.05954
FUTURE2	.48692	.58597	.05555	-.11584
ENJOY1	.28977	.55970	.46430	.03509
STRAIN1	-.22576	-.06255	-.78808	.04868
UNEASY1	-.30881	-.15822	-.78470	.13867

----- FACTOR ANALYSIS -----

	Factor 1	Factor 2	Factor 3	Factor 4
PLEAS1	.29832	.40933	.65200	.00012
SUBJECT1	.26124	.43337	.51792	-.23331
DISLIKE1	-.09720	-.24064	-.47984	.00543
BANNED2	-.23965	-.14049	.09879	.78567
BANNED1	-.07832	-.11460	-.22199	.76144

----- FACTOR ANALYSIS -----

Factor Transformation Matrix:

	Factor 1	Factor 2	Factor 3	Factor 4
Factor 1	.58952	.55615	.53605	-.23626
Factor 2	-.68486	.72686	-.02153	-.04671
Factor 3	-.17490	-.09782	.62599	.75364
Factor 4	.39096	.39090	-.56597	.61157

Hi-Res Chart # 4:Factor plot of factors 1, 2, 3