



User's Manual

for those administering the

**Learning and
Study
Strategies
Inventory**

Second Edition

Claire E. Weinstein, Ph.D.

Department of Educational Psychology,
University of Texas at Austin

David R. Palmer, Ph.D.

Texas Health and Human Services
Commission



**User's Manual
Learning and Study
Strategies Inventory
Second Edition**

Copyright ©2002

**Claire E. Weinstein, Ph.D.
David R. Palmer, Ph.D.**

H&H Publishing Company, Inc.
(800) 366-4079 (727) 442-7760
FAX (727) 442-2195
E-Mail hhservice@hhpublishing.com
Web www.hhpublishing.com

All rights reserved. It is a violation of the law to copy any or all of this publication without written permission of the publisher. Do not reproduce this publication in any way using any media including computer memory devices without written permission of the publisher.

Acknowledgments

It is impossible to thank the large number of individuals who have contributed to the development of the LASSI over the years. Many generations of graduate students, numerous colleagues, and other friends have generously given of their time, talents, and skills. In addition, much of the research support for the design and development of earlier versions of the LASSI was provided by the Army Research Institute for the Behavioral and Social Sciences and the Spencer Foundation. Finally, people have made such enormous contributions that they deserve individual mention: the original inspirations for this work, "Mama" and "Papa" Weinstein; our unconditional support team, Leona Sheryl Weinstein, Dr. Linda Hargrove, and Chandler Hargrove Palmer; the psychometric consultant for our project, Dr. Gary Hanson, and our publisher and editorial team: Dr. Robert Hackworth, Michael Ealy, Priscilla Trimmier and Karen Hackworth. To all of you we are eternally grateful and appreciative of your efforts.

Table of Contents

Part 1:	Overview of the LASSI	4
Part 2:	Administration and Scoring	6
Part 3:	Description of the Individual LASSI Scales	9
Part 4:	The Development of the LASSI, 1st Edition	14
Part 5:	The Development of the LASSI, 2nd Edition	16
Appendix A:	Descriptions of the Field Test and Norming Sample (Tables 1–13)	18
Appendix B:	Summaries of the Item Statistics for each LASSI, 2nd Edition Scale (Tables 14–23)	22
Appendix C:	Individual Scale Statistics (Table 24)	26
Appendix D:	Inter–Scale Correlations (Table 25)	27
Appendix E:	LASSI 2nd Edition Scale Norms (Table 26)	28

PART 1: OVERVIEW OF THE LASSI

WHAT IS THE LASSI AND WHAT DOES IT MEASURE?

The Learning and Study Strategies Inventory (LASSI) is a 10-scale, 80-item assessment of students' awareness about and use of learning and study strategies related to **skill**, **will** and **self-regulation** components of strategic learning. The focus is on both covert and overt thoughts, behaviors, attitudes, motivations and beliefs that relate to successful learning in post-secondary educational and training settings **and** that can be altered through educational interventions. Research has repeatedly demonstrated that these factors contribute significantly to success in college and that they can be learned or enhanced through educational interventions such as learning strategies and study skills courses.

The LASSI is both **diagnostic** and **prescriptive**. The LASSI provides standardized scores (percentile score equivalents) and national norms for ten different scales (there is no total score reported because this is a diagnostic instrument). It provides students with a diagnosis of their strengths and weaknesses, compared to other college students, in the areas covered by the ten scales, and it is prescriptive in that it provides feedback about areas where students may be weak and need to improve their knowledge, skills, attitudes, motivations and beliefs.

HOW CAN THE LASSI BE USED?

The LASSI is designed to be used as:

- (1) A screening measure to help students develop greater awareness of their learning and studying strengths and weaknesses;
- (2) A diagnostic measure to help identify areas in which students could benefit most from educational interventions;
- (3) A basis for planning individual prescriptions for both remediation and enrichment;

(4) A means for instructors to use for examining individual students' scores and class trends to help them decide where to place the greatest emphasis for assignments, projects, individual logs, journals, portfolios and other class activities;

(5) A pre-post achievement measure for students participating in programs or courses focusing on learning strategies and study skills;

(6) An evaluation tool to assess the degree of success of intervention courses or programs; and

(7) An advising/counseling tool for college orientation programs, advisors, developmental education programs, learning assistance programs, and learning centers.

INTRODUCTION TO THE LASSI SCALES

There are eight items on each of the ten scales of the LASSI. These scales are: Anxiety, Attitude, Concentration, Information Processing, Motivation, Selecting Main Ideas, Self Testing, Study Aids, Test Strategies, and Time Management.

Each of these scales is primarily related to one of three of the components of strategic learning: **skill**, **will** and **self-regulation**. The conceptual framework of strategic learning underlies each of these components, so there is some overlap and interaction among and within the components and individual scales. However, strategic learners need to know about each of these categories and about how to use information and skills in each of these categories. They also need to know how to pick and choose among the various elements in each category to help them reach specific learning goals and objectives.

SKILL COMPONENT OF STRATEGIC LEARNING

The LASSI scales related to the skill component of strategic learning are: **Information Process-**

ing, Selecting Main Ideas, and Test Strategies. These scales examine students' learning strategies, skills and thought processes related to identifying, acquiring and constructing meaning for important new information, ideas and procedures, and how they prepare for and demonstrate their new knowledge on tests or other evaluative procedures.

The **Information Processing Scale** assesses how well students' can use imagery, verbal elaboration, organization strategies, and reasoning skills as learning strategies to help learn new information and skills and to build bridges between what they already know and what they are trying to learn and remember.

Do students try to summarize or paraphrase their class reading assignments?

Do they try to relate what is being presented in class to their prior knowledge?

The **Selecting Main Ideas Scale** assesses students' skill at identifying important information for further study from less important information and supporting details.

Can students identify the key points in a lecture?

Can they decide what is important to underline in a textbook?

The **Test Strategies Scale** assesses students' use of both test preparation and test taking strategies.

Do students know how to study for tests in different types of courses?

Do they review their answers to essay questions?

THE WILL COMPONENT OF STRATEGIC LEARNING

The LASSI scales related to the will component of strategic learning are: **Anxiety, Attitude, and Motivation.** These scales measure the degree to which students worry about their academic per-

formance, their receptivity to learning new information, their attitudes and interest in college, their diligence, self-discipline, and willingness to exert the effort necessary to successfully complete academic requirements.

The **Anxiety Scale** assesses the degree to which students worry about school and their academic performance.

Do students worry so much that it is hard for them to concentrate?

Are they easily discouraged by low grades?

The **Attitude Scale** assesses students' attitudes and interests in college and achieving academic success.

How clear are students about their own educational goals?

Is school really important or worthwhile to them?

The **Motivation Scale** assesses students' diligence, self-discipline, and willingness to exert the effort necessary to successfully complete academic requirements.

Do students stay up-to-date in class assignments?

Do they easily "give up" in difficult classes?

THE SELF-REGULATION COMPONENT OF STRATEGIC LEARNING

The LASSI scales related to the self-regulation component of strategic learning are: **Concentration, Self-Testing, Study Aids, and Time Management.** These scales measure how students manage, or self-regulate and control, the whole learning process through using their time effectively, focusing their attention and maintaining their concentration over time, checking to see if they have met the learning demands for a class, an assignment or a test, and using study supports such as review sessions, tutors or special features of a textbook.

The **Concentration Scale** assesses students' ability to direct and maintain their attention on academic tasks.

Are students easily distracted?

Can they direct their attention to school tasks?

The **Self Testing Scale** assesses students' use of reviewing and comprehension monitoring techniques to determine their level of understanding of the information or task to be learned.

Do the students review before a test?

Do they stop periodically while reading to review the content?

The **Study Aids Scale** assesses students' use of support techniques, materials or resources to

help them learn and remember new information.

Do students complete practice exercises?

Do they create or use organizational aids?

The **Time Management Scale** assesses students' use of time management principles for academic tasks.

Are students well organized?

Do they anticipate scheduling problems?

Sample items for each scale are included in Part 3: Description of the Individual LASSI Scales.

Coefficient Alphas for the scales range from a low of .73 to a high of .89.

PART 2: ADMINISTRATION AND SCORING

The LASSI is designed to simplify administration and scoring as much as possible without losing power or diagnostic information. To help achieve this goal, it uses a self-report format and does not require any special administration procedures, such as specially trained personnel. The directions are included on the front of each printed booklet so it can be used in both individual and group settings. The Web-administered version presents the same directions to each user. The LASSI, 2nd edition is not a timed measure but most students complete it in approximately 15-20 minutes. Self-scoring the print version takes approximately 10 minutes. However, if the Web-administered version of the LASSI is used, then the scoring will be completed online and the scoring reports will be computer-generated. The LASSI uses a self-report format and does not require any special administration procedures. In fact, it has a simple scoring scheme that can be used by students to compute their own scale scores right on the print version of the instrument, making it easier to use in settings where scoring is prohibitively time consuming, too expensive or where computers are

not available in sufficient numbers, such as student orientation programs, academic courses, and learning centers.

For each of the 80 items on the LASSI, students are requested to darken the letter that corresponds to how well the statement describes them. For example, darkening the letter **a** for an item would indicate that the statement is **not at all typical** of the student, while darkening the letter **e** would indicate that the statement is **very much typical** of the student. Students are also cautioned to respond according to how well the statements reflect their behaviors or thinking processes and not how they think they should respond or how others would respond.

The LASSI yields ten individual scale scores, one for each of the ten scales. No total score is computed because this is a diagnostic instrument. These scale scores can then be compared numerically or graphically to the norms provided or to local norms or cut-off scores developed by an institution or program. The data provided with the LASSI includes percentile score equivalent

lents. Based on a student's scale scores, either in relation to the national norms included with the instrument or to a percentile cut-off score (the 75th percentile being a common cut-off used on many campuses), prescriptions can then be made. For example, if a student scores poorly on the **Test Strategies** Scale, he/she should be advised to concentrate at least part of his/her efforts on learning more about how to prepare for and take tests. A low score on the **Anxiety** Scale indicates a difficulty with focusing attention on task-relevant thoughts and behaviors rather than on fears and concerns about failure and incompetence. The student doing poorly on this scale would need to learn more about dealing with irrational thoughts and negative self-talk. She or he would have to learn how to cope with anxiety-arousing stimuli and take more responsibility for the direction of her or his own thinking processes.

Each printed LASSI assessment contains the following parts: 1) An introduction to the inventory; 2) an explanation of how to complete the LASSI; 3) the inventory items; 4) a summary of the students responses coded by scale (on pressure-sensitive paper for the print version); 5) scoring directions; 6) scoring summary sheets; and, 7) information about interpreting individual scale scores. The introduction to the LASSI is on the front page, the directions for taking the LASSI are on the second page. Pages 3 - 7 contain the LASSI items. Page 9 is the pressure sensitive page where student responses are recorded and keyed to the appropriate scale using a 3-letter code (e.g., SMI represents the **Selecting Main Ideas** Scale). This pressure-sensitive page is used to record students' scale scores on Page 11 (Page 12 uses pressure sensitive paper to make a copy of students' scale scores for the administrator). Pages 11 and 12 also include a graph students can use to record and compare their scores, brief descriptions of each scale, and an explanation of how to interpret scale scores in relation to national norms or two cut-off scores.

The Web version of the LASSI contains the following parts: 1) An introduction to the inventory; 2) an explanation of how to complete the LASSI; 3) the inventory items; and, 4) informa-

tion about interpreting individual scale scores. All scoring, reporting and graphics are generated automatically by the computer and provided to the student (a copy can also be provided to the administrator).

If the LASSI is to be self-scored, students must use the data recorded on Page 9 and the scoring directions on Page 11. On Page 9, they must add the item responses for each scale. Each item is numbered and keyed with a 3-letter code to indicate the appropriate scale. Responses on these sheets appear as numbers rather than letters. It should also be noted that approximately half of the items are numbered from 1 to 5 while the other half are numbered from 5 to 1. This is because some items are stated in a positive direction (such as item number 9, "I try to identify potential test questions when reviewing my class material,") while others are stated in a negative direction (such as item number 49, "I find it hard to pay attention during lectures."). Students must then add the numbers for the items on each scale (8 numbers ranging from 1 to 5) and place them in the appropriate places on the bottom of Page 9 of the LASSI booklet. To get a better overall view of their performance, these total scale scores can then be placed on the graph on Page 11 of the booklet. This graph uses the national norms for each scale to transform the raw scores into percentiles so that relative performance in different areas can be assessed.

Using the graph on Page 11 students can see how their answers compare to the answers of the norm groups. The graph is also marked off at the 75th and 50th percentiles to facilitate advising and counseling. Students who score above the 75th percentile often do not need to work on the strategies or skills for that scale. Students who score between the 75th and the 50th percentile on any scale should consider improving the relevant learning and study skills to optimize their academic performance. Students who score below the 50th percentile usually need to improve their relevant knowledge and skills to increase their chances of succeeding in a post-secondary setting. It should also be noted that these cut-offs could be modified depending on the local setting or the development of local norms. A copy of the national norms used to

create the graph can be found in Table 1 of this user's manual. The data in Table 1 represent the percent of students in the norm group that fall at or below a given raw score for each scale.

SUMMARY OF SCORING INSTRUCTIONS

1. After completing all 80 LASSI items, turn to Page 9 to add up the score for each of the 10 scales (the minimum possible is 8 and the maximum possible is 40).
2. The 3-letter codes at the top of each column on Page 9 indicate the scale code for that set of items. For example, items 29, 61, 35, 69, 43, 72, 46, and 78 all provide information about your anxiety (ANX). Each of your responses is marked on the right-hand side of the page. Each response is connected by a horizontal line to a box on the left-hand side of the page. Enter the number you circled for each statement in its associated box.
3. When you have filled in all of the boxes, add each of the 10 columns of numbers and place the totals in the spaces on the bottom left of the page, just above the 3-letter codes.
4. To produce a profile of your learning and study strategies, turn to Page 11. Each column is labeled with a 3-letter code representing one of the ten LASSI scales. Find your score on the scale directly above each scale code and circle this number. Do this for each scale. For example, if your ATT score was 32, find the number 32 just above the ATT scale code and circle the 32. If you cannot find your exact score, circle the next lowest number.
5. When you have finished circling your scores for all ten LASSI scales on the chart, connect the dots to see your LASSI profile.
6. The columns on the far left and far right of the chart show percentiles. To find your percentile rank for each of the ten scales compared to a national norm group of college students, locate the number in the left or right column in the row where you circled your score for each LASSI scale. For example, if you circled 32 in the MOT (Motivation) column, a 50 is in the left column for that row. This means that your responses are in the 50th percentile of the national norms for the Motivation Scale — 50% of the college students participating in the norming sample scored at or below your score.
7. To compare a student's profile with the national norms for the LASSI, you can also look at the two rows marked with double lines. If any of the circles in a profile are above the lower double line, the student's responses are above the 50th percentile. If they are above the upper double line, they are above the 75th percentile. A copy of the norms can be found in Table 26 in Appendix E.

PART 3: DESCRIPTION OF THE INDIVIDUAL LASSI SCALES

ANXIETY

Current conceptions of anxiety emphasize the interactive effects of our own thought processes, beliefs, and emotions and how they affect academic performance. Cognitive worry, a major component of anxiety, is manifested in negative self-referent statements. These negative thoughts, beliefs and feelings about one's abilities, intelligence, future, interactions with others, or likelihood of success, divert a student's attention away from the task at hand, such as studying or taking a test. If a student is worried that he will not have the time to finish a test, then he is just making matters worse by taking even more time away to worry about his performance. This type of self-defeating behavior often sabotages a student's efforts. If students are tense, anxious, or fearful about studying or performing in academic situations, this will divert their attention away from the academic task and inward to self-criticism or irrational fears.

Students' scores on this scale measure how tense or concerned they are when approaching academic tasks. Students who score low on this measure (indicating high anxiety) need to learn techniques for coping with anxiety and reducing worry so that they can focus on the task at hand and not on their anxiety. Many very capable students are often incapable of demonstrating their true level of knowledge and skill because they are paralyzed or distracted by debilitating anxiety. In fact, helping some students learn how to reduce their anxiety is sufficient for helping them to improve their performance. Once these attentional blocks are removed, many students show large increases in performance.

Coefficient Alpha = .87

Sample Items:

When I am studying, worrying about doing

poorly in a course interferes with my concentration.

I feel very panicky when I take an important test.

ATTITUDE

Students' general attitudes toward school and their general motivation for succeeding in school have a great impact on their diligence when studying, particularly in autonomous situations in which they must study on their own. If the relationships between school and life goals (academic, personal, social and work-related goals) are not clear, then it is difficult to maintain a mind-set that promotes good work habits, concentration, and attention to school and its related tasks.

Students' scores on this scale measure their general attitudes and motivation for succeeding in school and performing the tasks related to school success. Students who score low on this measure need to work on higher-level goal setting and reassess how school fits into their future. If school is not seen as relevant to the student's life goals and attitudes, then it will be difficult, if not impossible, to generate the level of motivation needed to help take responsibility for one's own learning and for helping to manage one's own study activities.

Coefficient Alpha = .77

Sample Items:

I do not care about getting a general education, I just want to get a good job.

I only study the subjects I like.

CONCENTRATION

Concentration helps students to focus their attention on school-related activities, such as studying and listening in class, rather than on distracting thoughts, emotions, feelings, or situations. People have a limited capacity to process what is going on around them and in their own thoughts; if they are distracted, there will be less capacity to focus on the task at hand. For students this means that distractions, or anything else that interferes with concentration, will divert attention away from school-related tasks.

Students' scores on this scale measure their abilities to concentrate and direct their attention to school and school-related tasks, including study activities. Students who score high on this measure are effective at focusing their attention and maintaining a high level of concentration. Students who score low on this measure are less successful at focusing their attention on the task at hand by eliminating interfering thoughts, emotions, feelings, and situations. They need to learn techniques to enhance concentration and to set priorities so that they can attend to school as well as to their other responsibilities. Learning techniques for focusing attention and maintaining concentration helps students implement effective learning strategies and can make learning and studying both more effective and more efficient.

Coefficient Alpha = .86

Sample Items:

My mind wanders a lot when I study.

If I get distracted during class, I am able to refocus my attention.

INFORMATION PROCESSING

Meaningful learning is enhanced by the use of elaboration and organization strategies. These strategies help to build bridges between what a student knows and what he or she is trying to learn and remember. Using what we already know, that is, our prior knowledge, experiences, attitudes, beliefs, and reasoning skills to help make meaning out of new information is critical to success in educational and training settings. The difference between an expert and a novice is not just the amount of knowledge they possess but also, and perhaps even more important, the way that knowledge is acquired and organized. It is the difference between storing one thousand folders by throwing them in the middle of a room versus storing them by some meaningful organization in filing cabinets.

Students' scores on this scale measure how well they can create imaginal and verbal elaborations and organizational schemes to foster understanding and recall. Students who score low on this measure need to learn methods that they can use to help add meaning and organization to what they are trying to learn. These methods range from simple paraphrasing and summarizing to creating analogies, the use of application, creating organizational schemes and outlining, and the use of synthesis, inferential, and analytic reasoning skills. A student who does not have a repertoire of these strategies and skills will find it difficult to incorporate new knowledge and understanding in such a way that acquisition and recall will be effective, often despite the large amount of time spent studying. The effectiveness and efficiency of both autonomous and classroom learning are facilitated by the use of information processing strategies.

Coefficient Alpha = .84

Sample Items:

To help me remember new principles we are learning in class, I practice applying them.

I try to find relationships between what I am learning and what I already know.

MOTIVATION

The Attitude Scale measures students' general attitudes toward school and their general motivation for succeeding in school. However, although general attitudes and motivation levels are important, so is a student's motivation to perform the specific tasks related to achievement. The degree to which students accept responsibility for studying and for their performance is reflected in the everyday behaviors they exhibit related to school and school tasks. These behaviors include reading the textbook, preparing for class, finishing assignments on time, and being diligent in studying, even if the topic is not particularly interesting to them (or even trying to figure out ways to make it more interesting).

Students' scores on this scale measure the degree to which they accept responsibility for performing the specific tasks related to school success. Students who score low on this measure need to work on goal setting, perhaps at the more global levels assessed on the Attitude Scale, but certainly at the more specific level of individual tasks and assignments. Accepting more responsibility for studying and achievement outcomes requires that students learn to attribute much of what happens to them in school to their own efforts rather than to outside forces such as luck or poor teachers, or to uncontrollable forces such as innate ability. Accepting more responsibility and attributing success to one's efforts results in more effective studying and school performance.

Coefficient Alpha = .84

Sample Items:

When work is difficult I either give up or study only the easy parts.

I set goals for the grades I want in my classes.

SELECTING MAIN IDEAS

Effective and efficient studying requires that the student be able to select the important material for in-depth attention. Most lectures, discussions, and textbooks contain redundant material, extra examples, and many supporting details to help explain what is being taught or presented. A major school task involves separating the important from the unimportant or simply didactic information that does not have to be remembered. If a student cannot select the critical information, then the learning task becomes complicated by the huge amount of material the individual is trying to acquire. Lacking this skill also increases the likelihood that the student will not have enough time to study everything that must be covered.

Students' scores on this scale measure their skills at selecting important information to concentrate on for further study in classroom, lecture or autonomous learning situations. Students who score low on this measure need to learn more about how to identify important information so that they can focus their attention and information processing strategies on appropriate material.

Coefficient Alpha = .89

Sample Items:

I have difficulty identifying the important points in my reading.

When studying, I seem to get lost in the details and miss the important information.

SELF TESTING

Reviewing and testing one's level of understanding are important for knowledge acquisition and comprehension monitoring. These strategies both support and contribute to meaningful learning and effective performance. Without them learning could be incomplete or errors might persist undetected. Reviewing and self testing also contribute to knowledge consolidation and integration across topics. Using mental reviews, going over class notes and the text, thinking up potential questions to guide reading or help prepare for an exam are all important methods for checking understanding, consolidating new knowledge, integrating related information (both from what is being learned and from what is already known), and identifying if additional studying must be done.

Students' scores on this scale measure their awareness of the importance of self testing and reviewing and the degree to which they use these methods. Students who score low on this measure need to learn more about the importance of self testing as well as specific methods for reviewing school material and monitoring their comprehension. These methods include structured reviews of large amounts of material; mental reviews of individual study segments; asking questions before, during, and after reading, studying, or going to class; trying to use new information in novel ways; trying to apply a principle or method; and using a systematic approach to study.

Coefficient Alpha = .84

Sample Items:

I stop periodically while reading and mentally go over or review what was said.

To check my understanding, I make up possible test questions and try to answer them.

STUDY AIDS

Students need to know how to create their own study aids and how to use those created by others. For example, textbook authors or publishers will often use headings, special type, white space, special markings, summaries, and statements of objectives to help students learn from their materials. Many also provide Web sites or other supplementary materials to help students learn the material. However, unless students know how to recognize and use these hints and aids, they will not benefit from them. It is also important for students to know how to generate their own study aids by methods such as the creation of diagrams, text marking, creating charts or summary sheets, and underlining. There are other supplementary activities that also support and enhance meaningful learning such as attending group review sessions, going to the instructor during office hours, searching for related material on the Web, forming study groups, or comparing notes with other students to check for accuracy or completeness.

Students' scores on this scale measure their ability to use or create study aids that support and increase meaningful learning and retention. Students who score low on this scale may need to learn more about the types of study aids provided in educational materials and classes and how they can create their own aids. Using and creating study aids improves both the effectiveness and the efficiency of learning.

Coefficient Alpha = .73

Sample Items:

I try to find a study partner or study group for each of my classes.

My underlining is helpful when I review text material.

TEST STRATEGIES

Effective test performance depends on both preparation strategies and test-taking strategies. A student needs to know how to prepare for the type of performance that will be required and how to maximize that performance. Test preparation includes knowing about the type of test they will be taking. For example, is it going to be a short-answer or a multiple-choice exam? Will performance require simple recall or will concepts, principles, and ideas need to be applied? Test preparation also includes knowing about methods for studying and learning the material in a way that will facilitate remembering the material and using it at a later time. Test-taking strategies include knowing about the characteristics of tests and test items, and how to create an effective test-taking plan.

Students' scores on this scale measure their use of test-taking and test preparation strategies. Students who score low on this measure may need to learn more about how to prepare for tests, how to create a plan of attack for taking a test, the characteristics of different types of tests and test items, and how to reason through to an answer. Often, students' performance on a test is not an accurate indicator of what they have learned. Knowing about test-taking and test-preparation strategies and how to use them helps students target their study activities, set up useful study goals, implement an effective study plan, and demonstrate their knowledge and skill acquisition so it can be accurately evaluated.

Coefficient Alpha = .80

Sample Items:

I have difficulty adapting my studying to different types of courses.

I review my answers on essay tests to make sure I have made and supported my main points.

TIME MANAGEMENT

Managing time effectively is an important self-regulation strategy for learning. Most students have various demands on their time; only by creating realistic schedules and using them can they fit in everything. Creating and using schedules also encourages students to take more responsibility for their own behavior. It requires some knowledge about themselves as students and learners. What are their best and worst times of day? Which subjects are easier or harder for them? What are their preferences for learning methods? This type of knowledge and self-awareness helps students to create workable schedules, and perhaps even more important, it helps students to create the motivation to use them.

Students' scores on this scale measure the degree to which they create and use schedules. Students who score low on this scale may need to learn about how to create a schedule and how to deal with distractions, competing goals, and procrastination. Accepting more responsibility for studying and achievement outcomes requires that students set realistic school goals and create plans that will facilitate goal achievement. Effective time management enhances these activities.

Coefficient Alpha = .85

Sample Items:

I find it hard to stick to a study schedule.

I set aside more time to study the subjects that are difficult for me.

PART 4: THE DEVELOPMENT OF THE LASSI, 1ST EDITION

The developmental work that led to the creation of the LASSI began twenty-two years ago as part of the Cognitive Learning Strategies Project at the University of Texas at Austin. In response to the increasing numbers of academically under-prepared students entering post-secondary educational and training settings, many institutions were creating programs to address student deficiencies. However, one of the major problem areas in this field related to assessment. The successful implementation of a learning and study strategies course or program requires a reliable and valid means for measuring students' deficits and progress. In addition, an accurate diagnosis of entry-level skills could be used to create individualized prescriptions for improvement and subsequent assessments as well as to provide a basis for evaluating the effectiveness of the course or program.

EARLY DEVELOPMENTAL ACTIVITIES

The first few years of work focused on data gathering. In addition, an analysis was made of existing published and experimental instruments and inventories. We found that the topics encompassed by the terms "study skills" and "learning strategies" varied considerably among researchers, practitioners, and assessment measures. Since there was no consensus concerning definitional components, the initial phases of this work involved an attempt to create a categorical scheme. To assist in this work, we conducted a survey project to examine the contents of study skills books, manuals, and programs. Input was also gathered from a series of experts in the area.

DEVELOPMENT OF AN ITEM POOL

Using the data gathered in the first series of studies, an initial item pool was created. This pool of 645 items was drawn from all of the sources used in the early developmental stage. Using a tentative categorical scheme that was developed, expert judges sorted the items.

During the process of sorting the items, two major problems were identified: first, many items were close duplicates; and second, a number of items fit into more than one category (e.g., time management as a test-taking strategy). The first problem was resolved by eliminating duplicate items and the second was left to be addressed after the initial pilot tests when the categorical scheme could be revised based on both the descriptive and correlational data collected. In addition, items that did not directly deal with study practices (e.g., items about personality characteristics) and items whose content concerned an aspect of behavior or experience that could not be altered and, therefore, could not be a target for remediation (e.g., "My parents read to me as a child.") were eliminated. Specialists in tests and measurements rewrote items that were confusing, compound items (those containing more than one question or statement in the same item), and poorly worded items.

As a result of these selection processes, the pool of potential items was reduced to 291. Although the LASSI currently uses a Likert-type scale, these initial pilot items were converted to a true-false format. Approximately half of the items were worded positively and half were worded negatively.

PILOT TESTING

A preliminary pilot test was conducted to evaluate the administration procedures and to begin collecting psychometric data about the items. Different groups of students completed approximately one third of the items (to reduce the burden of testing for any one individual), a measure of social desirability and a questionnaire about the items and administration procedures. A subset of this population was also interviewed.

The measure of social desirability was used to determine the degree of relationship between responses to individual items and the subject's desire to be socially acceptable. This response bias can be a major problem for self-report instruments. The post-experimental questionnaire was used to gather information from the students about perceived difficulties, problem questions, and suggested modifications and improvements.

Based on an analysis of this data set and its relation to other student data such as Scholastic Aptitude Test scores, grade-point average, and high school rank, a number of changes were made. First, the format was changed to a Likert-type measure. Second, wording and phrasing changes were made on a number of items. Finally, items correlating above .50 with the measure of social desirability were eliminated. In addition, confusing or unclear items were rewritten or eliminated.

In addition to eliminating items from the potential pool, a number of new items were added. The sources of these new items included: a survey of current research literature in cognitive psychology, responses from students on the post-experimental questionnaire, suggestions from practitioners, and student responses on the Learning Activities Questionnaire, a precursor of the LASSI developed as part of the project.

Two content matter specialists and two psychometricians then examined this new pool of items independently. A revised set of 14 categories containing at least 7 items for each category was created. This version of the LASSI had 149 items.

A second pilot test was conducted to evaluate the administration procedures and to examine the properties of the items on the revised instrument. The descriptive data collected and the student comments made during the feedback portion of the administration sessions were used to establish criteria for selecting items for the field test version of the LASSI. This version of the LASSI had 130 items. In addition, a preliminary study of test-retest reliability (with a 3- to 4-week interval) was conducted. A test-retest correlation of .88 was computed for the total instrument.

SCALE CONSTRUCTION

A series of field tests was conducted over a 2-year period. During this period the number of items was reduced from 130 to 90, and 10 scales measuring clusters of learning strategies, study skills, attitudes and beliefs were developed. These clusters were identified by groups of experts and refined using psychometric data, such as Coefficient Alpha, for each potential scale. In addition, preliminary norms were developed using the Fall 1982 incoming freshman class at a small private college in the eastern United States (with a representative student body). A total of 850 students participated, with complete data available for 780 students.

The scales were refined and thirty new items were created and added prior to another large-scale field test in 1984. Item analysis data were used to create the 77-item form of the LASSI. Norms were developed using a sample of 880 incoming freshman from a large southern university. Test-retest correlations (3-week intervals) were computed on a sample of 209 students from an introductory course in communications at the same school.

A number of different approaches were used to examine the validity of the LASSI. First, the scale scores were compared, where possible, to other tests or subscales measuring similar factors. Second, several of the scales were validated against performance measures. Finally, the LASSI was subjected to repeated tests of user

validity. Professors, advisors, developmental educators, counselors, and learning center specialists at more than 30 colleges and universities used the LASSI on a trial basis. They reported few, if any, administration problems and a high degree of usefulness in their settings.

We have also examined the usefulness of the LASSI as part of our own work on the Cognitive Learning Strategies Project. It has been used repeatedly in an undergraduate course in learning-to-learn that is a part of our real-world labo-

ratory. This course is designed to help academically underprepared and educationally disadvantaged students who are either experiencing, or are predicted to experience, academic problems while attending college. Approximately 1,000 students per year enroll. This 3-credit elective course is taught in sections of about 30 each. The LASSI has been used to help diagnose individual student problems, to direct both remediation and enrichment activities, and to evaluate student progress and course components.

PART 5: THE DEVELOPMENT OF THE LASSI, 2nd EDITION

The developmental work that led to the creation of the LASSI, 2nd Edition began 5 years ago as part of the Cognitive Learning Strategies Project at the University of Texas at Austin. The LASSI, 2nd Edition was developed to:

1. Update the LASSI and remove dated items, such as Item #72, "Often when studying I seem to get lost in details and 'can't see the forest for the trees'." The expression, "... can't see the forest for the trees," was commonly used in the 1980's when the LASSI was developed but is no longer familiar to many college students.
2. Incorporate current research findings in the areas of cognitive educational psychology, developmental education, higher education, instructional psychology and the psychology of learning. For example, a greater emphasis was placed on the metacognitive concepts of awareness, reflection and self-regulation.
3. Incorporate changes in educational practice and instruction in higher education. For example, the Study Aids scale was updated to reflect students' use of Web sites associated with their textbooks or courses.
4. Broaden the scope of some of the scales to increase the degree to which they sample the underlying domains. For example, the Concentration Scale samples more broadly from the domain of academic tasks required of a college student.
5. Create equal numbers of items for each scale. The Selecting Main Ideas Scale on the original LASSI contained only five items. Now all of the scales contain eight items.
6. Improve further the psychometric properties of the LASSI. For example, the lowest Coefficient Alpha for any scale on the LASSI, 2nd Edition, is now .73, and all but two scales are above .80.
7. Create national norms based on a more broad-based sample. The sample was drawn from twelve different institutions representing different geographical regions as well as university, community college, state college and technical institutions.

EARLY DEVELOPMENTAL ACTIVITIES

The initial task in this project consisted of a series of interviews with professionals in both developmental education and educational psychology who either worked with or conducted research about students who were at-risk, or predicted to be at-risk, of academic failure or low performance in higher education settings, broadly defined. The data from these interviews helped us to identify criteria for the improvement of the LASSI, 1st Edition. In addition, feedback was also solicited from educational psychometricians with expertise in diagnostic/prescriptive assessments. Finally, a review of relevant research, related textbooks, and other learning assistance materials and Web sites was also conducted.

DEVELOPMENT OF AN ITEM POOL

Using the data gathered during the early development activities, an initial item pool was created. This initial pool of 134 items consisted of 77 items drawn from the 1st edition of the LASSI and 57 items created for the 2nd edition to address the seven developmental goals listed above in the introduction to this section. This pool of items was then examined by a team of developmental educators and educational psychologists, and, as a result of their input, a number of modifications were made: the wording of some of the items was changed, several items were deleted and new items were created to replace the discarded ones. After a second review, the items were randomly sorted to create a pilot test version of the instrument.

PILOT TESTING

The pilot test was administered to 2,400 entering students at a major university in the southwestern part of the United States. Students' Scholastic Aptitude Test (SAT) scores, if available, were also collected at this time. Achieve-

ment data were collected from these students in both the fall and spring semesters of 1998 and 1999. Based on an analysis of the students' LASSI item pool data set and its psychometric properties (including item/scale characteristics) and relation to other student data such as their SAT scores, grade-point averages, and high school rank, a number of changes were made. For example, some items were eliminated, some were modified, and work began on the development of additional items to strengthen further the scale definitions and psychometric properties.

A team of developmental educators, educational psychologists and educational psychometricians examined this new pool of 166 items (77 items from the LASSI, 1st Edition, 29 items from the pilot test version of the LASSI, 2nd Edition, and 60 new items written for the field test of the LASSI, 2nd Edition). After relatively minor wording revisions, a series of pilot tests were conducted with five groups of college students to examine the item characteristics and interpretation by students. This student feedback was the final step in preparing for the broad-based field test and norm development.

FIELD TESTING AND NORM DEVELOPMENT

The field test and norming version of the LASSI, 2nd Edition contained extra items for each scale (only 80 of the 166 items field tested were needed for the final instrument. The field test/norming version was administered to 1,092 students from twelve different institutions representing different geographical regions as well as university, community college, state college and technical institutions. See Appendix A, Table 1 for a summary of the sample size by institution breakdown. See Appendix A, Tables 2-13 for breakdowns of the sample according to age, ethnicity, gender, and GPA, as well as the breakdowns across these categories.

Balancing both conceptual and psychometric analyses, ten scales of eight items each were developed using those items that best represented the breadth and depth of the conception under-

lying each scale and that provided the strongest psychometric properties for the scale. Summaries of the item statistics for each of the LASSI, 2nd Edition scales can be found in Appendix B, Tables 14-23. Appendix C, Table 24 presents scale statistics (mean, standard deviation and

Coefficient Alpha) for each of the 10 scales. Appendix D, Table 25 lists the inter-scale correlations for all scales and Appendix E, Table 26 contains a listing of the norms for the LASSI, 2nd Edition.

Appendix A: Descriptions of the Field Test and Norming Sample (Tables 1-13)

Table 1

Demographics of the LASSI Norming Sample
Sample Size by Type of Institution

	Number of Schools	Number of Students
University	3	201
Community College	5	495
State College	3	348
Technical Institute	1	48
Total	12	1,092

Table 2

Demographics of the LASSI Norming Sample
GPA by Gender

GPA	Male	Female	Total
Below 2.0	6	20	26
2.0 - 2.5	70	76	146
2.5 - 3.0	120	182	302
3.0 - 3.5	131	260	391
3.5 - 4.0	50	177	227
Total	377	715	1,092

Table 3

Demographics of the LASSI Norming Sample
Ethnicity by Gender

Ethnicity	Male	Female	Total
White, non-Hispanic	235	474	709
African-American	58	95	153
Hispanic	54	95	149
Asian or Pacific Islander	7	9	16
Other	23	42	65
Grand Total	377	715	1,092

Table 4
Demographics of the LASSI Norming Sample
Age by Gender

Age	Male	Female	Total
17 or younger	32	52	84
18-19	225	403	628
20-21	45	56	101
22-23	16	37	53
24-25	12	31	43
26 or older	47	136	183
Total	377	715	1,092

Table 5
Demographics of the LASSI Norming Sample
Ethnicity by Age

Ethnicity	17 or younger	18-19	20-21	22-23	24-25	26 or older	Total
White, non-Hispanic	49	394	67	38	32	129	709
African-American	14	83	13	6	6	31	153
Hispanic	11	110	13	4	1	10	149
Asian or Pacific Islander	1	9	2	1	2	1	16
Other	9	32	6	4	2	12	65
Total	84	628	101	53	43	183	1,092

Table 6
Demographics of the LASSI Norming Sample
Ethnicity by GPA

Ethnicity	Below 2.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	Total
White, non-Hispanic	15	75	167	264	188	709
African-American	7	40	63	36	7	153
Hispanic	1	21	45	62	20	149
Asian or Pacific Islander	1	2	4	6	3	16
Other	2	8	23	23	9	65
Total	146	302	391	227	26	1,092

Table 7
Demographics of the LASSI Norming Sample
GPA by Age

Ethnicity	17 or younger	18-19	20-21	22-23	24-25	26 or older	Total
Below 2.0	1	9	5	2	5	4	26
2.0 - 2.5	7	80	22	13	8	16	146
2.5 - 3.0	26	177	27	16	8	48	302
3.0 - 3.5	35	237	32	16	9	62	391
3.5 - 4.0	15	125	15	6	13	53	227
Grand Total	84	628	101	53	43	183	1,092

Table 8
Demographics of the LASSI Norming Sample
Ethnicity by GPA — Males

Ethnicity	Below 2.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	Total
White, non-Hispanic	4	42	67	83	39	235
African-American	1	17	21	19	0	58
Hispanic	0	6	19	22	7	54
Asian or Pacific Islander	1	1	2	2	1	7
Other	0	4	11	5	3	23
Total	6	70	120	131	50	377

Table 9
Demographics of the LASSI Norming Sample
Ethnicity by GPA — Females

GPA	Below 2.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	Total
White, non-Hispanic	11	33	100	181	149	474
African-American	6	23	42	17	7	95
Hispanic	1	15	26	40	13	95
Asian or Pacific Islander	0	1	2	4	2	9
Other	2	4	12	18	6	42
Total	20	76	182	260	177	715

Table 10
Demographics of the LASSI Norming Sample
Age by GPA — Males

Age	Below 2.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	Total
17 or younger	0	4	10	14	4	32
18-19	2	43	78	73	29	225
20-21	2	10	13	17	3	45
22-23	1	6	6	3	0	16
24-25	1	3	2	2	4	12
26 or older	0	4	11	22	10	47
Total	6	70	120	131	50	377

Table 11
Demographics of the LASSI Norming Sample
Age by GPA — Females

Age	Below 2.0	2.0 - 2.5	2.5 - 3.0	3.0 - 3.5	3.5 - 4.0	Total
17 or younger	1	3	16	21	11	52
18-19	7	37	99	164	96	403
20-21	3	12	14	15	12	56
22-23	1	7	10	13	6	37
24-25	4	5	6	7	9	31
26 or older	4	12	37	40	43	136
Total	20	76	182	260	177	715

Table 12
Demographics of the LASSI Norming Sample
Ethnicity by Age — Males

Ethnicity	17 or younger	18-19	20-21	22-23	24-25	26 or older	Total
White, non-Hispanic	14	138	27	14	10	32	235
African-American	8	33	7	2	0	8	58
Hispanic	4	38	8	0	0	4	54
Asian or Pacific Islander	1	3	1	0	1	1	7
Other	5	13	2	0	1	2	23
Total	32	225	45	16	12	47	377

Table 13
Demographics of the LASSI Norming Sample
Ethnicity by Age — Females

Ethnicity	17 or younger	18-19	20-21	22-23	24-25	26 or older	Total
White, non-Hispanic	35	256	40	24	22	97	474
African-American	6	50	6	4	6	23	95
Hispanic	7	72	5	4	1	6	95
Asian or Pacific Islander	0	6	1	1	1	0	9
Other	4	19	4	4	1	10	42
Total	52	403	56	37	31	136	715

Appendix B: Summaries of the Item Statistics for Each LASSI, 2nd Edition Scale (Tables 14-23)

Table 14
Item Statistics for the **Anxiety** Scale

Item Number	Item Mean	Standard Deviation	Item-Total r	Item-Total r Excluding This Item	Coefficient Alpha Excluding This Item
29	2.630	1.238	0.668	0.550	0.862
35	3.006	1.237	0.836	0.769	0.837
43	3.073	1.219	0.785	0.701	0.845
46	3.881	1.255	0.631	0.503	0.867
61	2.810	1.252	0.724	0.619	0.854
69	3.381	1.119	0.794	0.722	0.844
72	3.208	1.156	0.589	0.463	0.870
78	3.531	1.136	0.764	0.682	0.848

Table 15
Item Statistics for the **Attitude Scale**

Item Number	Item Mean	Standard Deviation	Item-Total r	Item-Total r Excluding This Item	Coefficient Alpha Excluding This Item
6	3.220	0.962	0.487	0.289	0.781
17	4.120	0.853	0.641	0.499	0.742
36	4.229	0.901	0.660	0.514	0.739
41	4.396	0.909	0.690	0.551	0.732
48	4.287	0.916	0.629	0.472	0.747
51	3.897	0.886	0.685	0.550	0.733
70	4.773	0.655	0.527	0.403	0.758
76	4.494	0.806	0.656	0.527	0.738

Table 16
Item Statistics for the **Concentration Scale**

Item Number	Item Mean	Standard Deviation	Item-Total r	Item-Total r Excluding This Item	Coefficient Alpha Excluding This Item
1	3.169	1.003	0.701	0.600	0.847
8	3.804	0.908	0.679	0.584	0.849
16	3.346	1.041	0.737	0.640	0.843
32	2.803	1.172	0.773	0.674	0.839
49	3.531	1.087	0.718	0.610	0.846
55	3.130	1.149	0.793	0.703	0.835
67	3.556	1.035	0.764	0.676	0.839
75	3.633	0.999	0.536	0.402	0.868

Table 17
Item Statistics for the **Information Processing Scale**

Item Number	Item Mean	Standard Deviation	Item-Total r	Item-Total r Excluding This Item	Coefficient Alpha Excluding This Item
3	3.573	1.047	0.666	0.542	0.819
11	3.115	0.982	0.694	0.585	0.813
15	3.629	0.988	0.650	0.530	0.820
23	3.431	0.988	0.795	0.715	0.797
27	3.565	0.976	0.700	0.594	0.812
44	3.140	1.082	0.735	0.626	0.807
50	3.322	1.073	0.757	0.655	0.803
58	3.472	1.155	0.487	0.308	0.852

Table 18Item Statistics for the **Motivation Scale**

Item Number	Item Mean	Standard Deviation	Item-Total r	Item-Total r Excluding This Item	Coefficient Alpha Excluding This Item
14	4.030	1.029	0.744	0.636	0.811
22	3.786	0.951	0.563	0.422	0.838
30	3.787	0.947	0.710	0.603	0.816
39	3.869	0.913	0.705	0.601	0.817
42	3.913	1.027	0.685	0.560	0.822
56	4.075	0.944	0.774	0.686	0.806
65	4.169	0.858	0.611	0.494	0.829
80	3.557	1.066	0.695	0.567	0.821

Table 19Item Statistics for the **Self Testing Scale**

Item Number	Item Mean	Standard Deviation	Item-Total r	Item-Total r Excluding This Item	Coefficient Alpha Excluding This Item
9	3.341	1.079	0.659	0.541	0.829
18	2.924	1.110	0.714	0.606	0.821
25	3.048	1.137	0.747	0.646	0.816
33	3.311	1.107	0.550	0.406	0.846
37	3.071	1.111	0.696	0.583	0.824
47	3.121	1.098	0.732	0.630	0.818
60	2.763	1.165	0.718	0.605	0.821
74	2.952	1.101	0.707	0.599	0.822

Table 20Item Statistics for the **Selecting Main Ideas Scale**

Item Number	Item Mean	Standard Deviation	Item-Total r	Item-Total r Excluding This Item	Coefficient Alpha Excluding This Item
10	3.497	1.178	0.751	0.645	0.875
21	3.437	1.054	0.801	0.725	0.865
24	3.536	1.010	0.727	0.633	0.875
53	3.539	0.974	0.774	0.696	0.869
57	3.487	1.079	0.792	0.709	0.867
64	3.665	0.936	0.611	0.500	0.887
68	3.421	0.958	0.768	0.690	0.869
73	3.473	0.958	0.753	0.671	0.871

Table 21
Item Statistics for the **Study Aids Scale**

Item Number	Item Mean	Standard Deviation	Item-Total r	Item-Total r Excluding This Item	Coefficient Alpha Excluding This Item
12	3.601	1.050	0.506	0.345	0.721
20	2.788	1.288	0.526	0.328	0.728
34	2.713	1.258	0.622	0.451	0.701
40	3.033	1.205	0.651	0.497	0.692
54	3.481	1.119	0.516	0.345	0.722
66	3.605	1.124	0.618	0.468	0.699
71	2.595	1.154	0.633	0.482	0.696
77	3.439	1.192	0.653	0.501	0.691

Table 22
Item Statistics for the **Time Management Scale**

Item Number	Item Mean	Standard Deviation	Item-Total r	Item-Total r Excluding This Item	Coefficient Alpha Excluding This Item
4	3.053	1.136	0.753	0.657	0.828
7	2.882	1.170	0.602	0.462	0.851
13	2.957	1.261	0.795	0.700	0.821
28	3.040	1.173	0.807	0.724	0.819
31	3.126	1.083	0.698	0.592	0.836
59	3.992	0.989	0.627	0.516	0.844
62	3.737	1.002	0.557	0.433	0.853
79	3.290	1.132	0.755	0.660	0.827

Table 23
Item Statistics for the **Test Strategies Scale**

Item Number	Item Mean	Standard Deviation	Item-Total r	Item-Total r Excluding This Item	Coefficient Alpha Excluding This Item
2	3.725	1.060	0.648	0.500	0.783
5	3.501	1.022	0.692	0.562	0.773
19	4.047	0.887	0.596	0.464	0.787
26	3.534	0.865	0.656	0.541	0.777
38	3.481	0.938	0.737	0.632	0.763
45	3.539	0.940	0.718	0.608	0.766
52	3.619	1.091	0.505	0.319	0.812
63	3.684	1.022	0.662	0.524	0.779

Appendix C: Individual Scale Statistics (Table 24)

Table 24

Scale Statistics for the Final Version of Each Scale

Scale Name	Scale Mean	Standard Deviation	Coefficient Alpha
Anxiety	25.52	6.95	.87
Attitude	33.41	4.29	.77
Concentration	26.97	6.01	.86
Information Processing	27.25	5.66	.84
Motivation	31.19	5.32	.84
Self Testing	24.53	6.15	.84
Selecting Main Ideas	28.06	6.10	.89
Study Aids	25.25	5.56	.73
Time Management	26.08	6.30	.85
Test Strategies	29.13	5.08	.80

Appendix D: Inter-Scale Correlations (Table 25)

Table 25
Scale Intercorrelations

	Anxiety ANX	Attitude ATT	Concentration CON	Information Processing INP	Motivation MOT	Self Testing SFT	Selecting Main Ideas SMI	Study Aids STA	Time Management TMT	Test Strategies TST
Anxiety	1.000									
Attitude	0.230	1.000								
Concentration	0.424	0.547	1.000							
Information Processing	0.174	0.397	0.441	1.000						
Motivation	0.212	0.661	0.579	0.504	1.000					
Self Testing	0.120	0.449	0.458	0.641	0.555	1.000				
Selecting Main Ideas	0.584	0.375	0.622	0.408	0.406					
Study Aids	0.069	0.400	0.352	0.538	0.433	0.611	0.256	1.000		
Time Management	0.243	0.535	0.670	0.419	0.610	0.570	0.386	0.444	1.000	0.449
Test Strategies	0.633	0.457	0.641	0.393	0.475	0.382	0.794	0.275		1.000

Appendix E: LASSI 2nd Edition Scale Norms (Table 26)

Table 26
National Norms for the LASSI, 2nd Edition

Percentile Score	Anxiety ANX	Attitude ATT	Concentration CON	Information		Motivation MOT	Self Testing SFT	Selecting		Study Aids STA	Time Management TMT		Test Strategies TST	Percentile Score
				Processing INP	Processing INP			Main Ideas SMI	Main Ideas SMI		Management TMT	Strategies TST		
99	40	40	40	40	40	40	40	40	40	38	40	40	40	99
95	37	39	37	38	38	39	36	38	38	35	37	38	38	95
90	35		35	35	35	38	33	37	37	33	35	36	36	90
85	33	38	34	34	34	37	31	35	35	32	33	35	35	85
80	32	37	33	33	33	36	30	34	34	30	32	34	34	80
75	31		32	31	31		29	33	33	29	31	33	33	75
70	30	36	31	30	30	35	28	32	32		30	32	32	70
65	29		30			34	27	31	31	28	29			65
60	28	35	29	29	29	33	26	30	30	27	28	31	31	60
55	27			28	28			29	29	26	27	30	30	55
50	26	34	28	27	27	32	25							50
45	25		27			31	24	28	28	25	26	29	29	45
40	24	33	26	26	26		23	27	27	24	25	28	28	40
35	23		25	25	25	30	22	26	26		24			35
30	22	32	24	24	24	29		25	25	23	23	27	27	30
25	21		23			28	21	24	24	22	22	26	26	25
20	20	31	22	23	23	27	20	23	23	21	21	25	25	20
15	18	30	21	22	22	26	19	22	22	20	20	24	24	15
10	17	28	19	21	21	24	17	21	21	19	18	23	23	10
05	14	26	17	19	19	22	15	18	18	17	16	21	21	05
01	10	21	13	15	15	18	12	13	13	13	12	18	18	01



Learning and Study Strategies Inventory

2nd Edition

© 2002 H&H Publishing Company, Inc.

User's Manual

This User's Manual includes a history of the instrument's development, a complete description of the ten scales included in the LASSI, 2nd Edition, a section on administration and scoring, results of pilot and field testing, scale statistics, norms, and the processes used in scale construction. In addition, it contains information to help create individual prescriptions for enhancing students' skills.

Ordering Information

Volume discounts are available. Complete information on ordering LASSI, 2nd Edition is available from:

H&H Publishing Company, Inc.
1231 Kapp Drive
Clearwater, FL 33765-2116
(800) 366-4079 (727) 442-7760
FAX (727) 442-2195
E-Mail hhservice@hhpublishing.com
Web www.hhpublishing.com