

DOCUMENT RESUME

ED 429 995

TM 029 705

AUTHOR Brown, Gavin
 TITLE Assessing an Essential Skill: Finding Information in the Library.
 INSTITUTION New Zealand Council for Educational Research, Wellington.
 PUB DATE 1998-12-00
 NOTE 23p.; Paper presented at the Annual Conference of the New Zealand Association for Research in Education (Dunedin, New Zealand, December 3-6, 1998).
 PUB TYPE Reports - Research (143) -- Speeches/Meeting Papers (150)
 EDRS PRICE MF01/PC01 Plus Postage.
 DESCRIPTORS Academic Achievement; *Elementary School Students; Elementary Secondary Education; Foreign Countries; Library Instruction; *Library Skills; *Secondary School Students; Sex Differences; *Test Construction
 IDENTIFIERS New Zealand

ABSTRACT

Two instruments were developed to elicit information about students' abilities and their instructional needs in finding information in a library. Tests of student skills were developed through a series of empirical trials and reviews. The third trial of the test was carried out by using whole classes selected randomly to yield two classes from four schools for each test. Results show that the developed elementary (grades 5 and 6) and intermediate (grades 7 and 8) tests are sufficiently reliable to proceed to national standardization. The tests for secondary school students has many difficult items, and will require further developmental trials before national standardization. Test results show that girls score higher and are rated higher than boys, and that students in high-performance schools ("high decile") score better than those at low and middle levels of performance. Older students also tend to do better than younger ones. The tests seem to be moving in the right direction in terms of their ability to discriminate reliably among candidates, and they should permit teachers to make informed decisions about the learning needs of a wide variety of students. (Contains nine tables, four figures, and two references.) (SLD)

 * Reproductions supplied by EDRS are the best that can be made *
 * from the original document. *

NZARE Conference 1998

Dunedin, 3 - 6 December 1998

Gavin Brown,

New Zealand Council for Educational Research

PO Box 3237, WELLINGTON 6000

Tel: (04) 802-1468

E-mail: gavin.brown@nzcer.org.nz

Assessing an essential skill:

Finding information in the library

Success in information literacy partly requires accurate and independent ability to locate items in libraries. This paper reports on the author's exploratory work in developing school-based assessments in library skills. Direct tests of student knowledge and teacher observational ratings of student independence have been developed. The paper will describe how library skills have been defined and sequenced for primary (Y5-6), intermediate (Y7-8), and secondary (Y9-10) stages. Findings on the reliability and validity of the assessments at all levels will be discussed. Specific questions to be addressed include:

- What role do gender and decile play in test performance and teacher observation?
- What differences are there in achievement in understanding catalogues and locating items in a library?
- What agreement is there in library skills achievement as measured by test scores and by teacher observation?

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

This document has been reproduced as received from the person or organization originating it.

Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official OERI position or policy.

PERMISSION TO REPRODUCE AND
DISSEMINATE THIS MATERIAL
HAS BEEN GRANTED BY

Gavin Brown

TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)

ED 429 995

TM029705

In a paper (Brown, 1997) given at the 1997 NZARE conference I discussed information skills in the New Zealand curriculum framework and foreshadowed some types of assessment instruments that could be developed to assist classroom teachers in teaching information skills. This paper follows the development of two instruments designed to elicit information about students' abilities and their instructional needs in finding information in a library. These two instruments are part of a collection of direct tests, teacher rating schedules, and student self-reports (Table 1) that are being developed or planned for phased publication in 1999. Three levels of the test are in development (ie. primary, intermediate, & secondary), and one teacher rating schedule across the three levels is planned.

As NEMP's research last year (Crooks & Flockton, 1998) pointed out students generally find information easily but struggle to know how or why to make use of the information. Nevertheless, in a battery of assessment instruments it is still useful to identify the architecture of a student's understanding of library systems and their purposes and it is toward that goal that these instruments have been developed.

Instruments

The tests and rating schedule have been developed through a series of empirical trials and reviews (Figure 1). This process has allowed refinement of several dimensions of the instruments; the wording of the questions, the layout and ordering of items, the validation of the tasks and stimulus material against school library realities, determination of the difficulty and discrimination of each item, and the sequencing of the information skills curriculum under-girding the instruments. This last dimension has been most crucial since detailed expectations of achievement standards do not yet exist for information skills. The three levels of the test act as a *de-facto* statement of the minimum content which students could be expected to master.

The content of the test is broken into four major aspects of library systems that assist library users to locate and make use of information (Table 2); the catalogue, library sections and shelving, and evaluation of sources. Some aspects of knowledge are tested early on and disappear from the test criteria as children age; for example library sections. Some aspects of knowledge (eg. the world wide web and evaluating the authority of sources) are introduced later as students develop the reading and information experience needed to handle the questions. Other dimensions remain important across all three tests; that is knowledge about Dewey decimal system and the use of key words. The development or sequencing of these systems is also marked by increasing the amount and complexity of information that students have to handle in order to answer the questions. The type of response required of students also contributes to increasing difficulty; multiple-choice questions are easier in general than constructed responses. To illustrate these points a very small sample of items on the use and structure of the Dewey decimal system, with results, show an increasingly demanding curriculum expectation (Figure 2).

It should be kept in mind that these sequences are valid only for the condition of being asked to produce knowledge in a pen & paper, independent, on-demand test situation. Obviously, teachers will instruct, model, and support children in understanding these content demands much sooner than students could be expected to answer written questions independently. Thus, the three tests can indicate to teachers the areas of library knowledge students should be able to handle by the end of years 6, 8, and 10 respectively if students are to make effective use of the library to meet their own information needs.

Throughout the design and construction of these instruments emphasis has been put on the fact that all library systems, structures, and procedures exist to enable users to solve information problems. The kinds of problems users have include:

- Does this library have any information pertinent to my problem?
- What information can I get from the catalogue to help solve the problem?
- How do I structure my problem in terms of library systems?
- Where is the information I want?
- What form is the information in?
- What procedures do I use when things go wrong (eg. there's too many sources, a source isn't where it's supposed to be, and so on)?

Thus, the tests elicit responses which show that students can both exhibit knowledge of the library system itself and knowledge of how to use the library system to meet certain information problems.

In addition to the tests, a teacher rating scale has been in development. This scale identifies 11 problem situations commonly faced in the process of using catalogues and locating information in a library (Table 3). All of the situations, bar knowing how to use the catalogue technology, are covered to some degree by test items. Teachers rate students on the quality of independence they have observed students exhibiting in the problem situations. This scale has the capability of helping teachers identify students who may be able to locate information despite their inability to score well on the test.

Method

The third trial of the library skills test was carried out by post using whole classes selected randomly according to the certain criteria concerning decile, and location (Table 4). In effect, this provided two classes from four schools for each test with one school each at low (1-3) and high (8-10) decile ranges and two schools for the mid (4-7) decile range. However, when relying on the good will of others at a distance best laid plans do go astray and numbers do not quite match up with the plan.

Each test is analysed using ConQuest statistical package to determine item difficulties and discrimination, as well as overall test reliability.

In order to validate the teacher rating scale, teachers were asked to rate every second student taking the test. Despite this plan going even more astray in terms of data collection, sufficient data was captured to carry out a variety of multi-variate statistical analyses using SAS.

Results

The primary and intermediate tests (Tables 5) are sufficiently reliable to proceed to national standardisation with coefficient alpha scores of 0.91 and 0.87 respectively. This is quite respectable internal consistency given the low number of items, again 35 and 33 respectively. Bar some minor modifications, these two tests are sufficiently robust technically to proceed to standardisation. The secondary test has a significant number of extremely difficult items, especially those that require students to fill out a search field accurately (Figure 3), and will require further trialing prior to standardisation.

Pearson Correlation coefficients (Table 6) indicate a small number of statistically significant relationships within the data set.

- Gender has a positive though weak correlation with all three measurements; ie. females tend to do better on the test and tend to be rated higher for catalogue and location skills.
- Test version and year have weak negative correlations with test score and catalogue rating. This indicates that catalogue ratings and test scores have a small tendency to decrease with age; perhaps suggesting that the tests are increasingly harder.

- Decile has a weak positive correlation with test score alone implying that students from higher decile schools perform better on formal paper and pencil testing.
- The assessment instruments correlate quite well with each other. The test score has a moderately strong positive correlation with the two ratings while the two ratings are strongly correlated with each other. This implies that while the two rating scales are measuring more or less the same characteristic as each other they are, as might be expected, measuring a somewhat different trait than the test.

Analysis of means (Tables 7) produces similar results. There is no statistically significant difference across the three levels in terms of location rating. Likewise no difference exists between the secondary and intermediate tests and ratings results. However, the primary test and catalogue rating are significantly different from the other two levels. Statistically significant differences exist in favour of the high decile group test results only; there are no statistically significant difference for the ratings across all decile levels. Perhaps unsurprisingly, differences for the test and both ratings between boys and girls are statistically significant in favour of the females. For test scores the impact of decile on gender is interesting (Figure 4); girls at low and mid-decile groups are very close to each other before stepping up to the high decile girls; whereas boys' scores increase across each decile group.

Multiple analysis of variance statistics (Tables 8) clearly indicate that the data is explained best by the separate main effects of decile, school year, and gender. The test scores are driven separately by all three demographic variables; while the two ratings are both driven by gender differences only. The only overall significant interaction, which explains the data after accounting for the main effects of decile, school year and gender, is that of year and decile, in other words scores rise as both the year and the decile rises.

A principal components analysis (Table 9A) clearly shows that after the measurement variables, school year, decile, and gender, shape the next 3 descending components resulting in four components that explain over 90% of the variance. School year and test version are proxies for increasing age of students. A principal factor analysis (Table 9B), which reduces the correlation matrix by removing the uniquenesses, simplifies the data structure to two factors. The first factor loads heavily on the two ratings, moderately on the test score, and weakly on gender. The second factor loads heavily on test version and school year or age.

Conclusions

This data analysis tells a relatively simple, yet powerful, story about children's library skills. Girls score higher and are rated higher than boys. Students in high decile schools receive higher test scores than those at low and mid-decile schools. Older students tend to do better than younger ones. And yet, this is not the whole story. The fact that the students are not truly randomly sampled, due to the cluster effect of testing whole classes, may suggest that what looks like a decile effect may be a school or teacher effect that could be replicated in other schools.

It appears that the tests are moving in the right direction in terms of their ability to discriminate reliably among candidates. More importantly, they will permit teachers to make informed decisions about the learning needs of a wide range of students. As well the teacher rating schedules, while measuring differently from the tests, give an insight into student behaviour that coincides, quite strongly for consensual validation, with the test scores. It is possible that the rating scales might be successfully used as a substitute for the test.

References

- Brown, G. (1997). *Information skills in the New Zealand curriculum: A blueprint for education?* Paper presented at the NZ Association for Research in Education Annual Conference, December 4-7, 1997, Auckland. [On-line]. Available: <http://pakuranga.school.nz/asla.html/gbrown.html>
- Crooks, T., & Flockton, L. (1998). *Information skills: Assessment results 1997*. National Education Monitoring Report 7. Dunedin: University of Otago, Educational Assessment Research Unit.

Table 1: NZCER Development Plan for Information Skills Assessment Instruments

	Plan	Find				Comprehend				Utilise/Apply				Present			Evaluate			
		Library		Parts of Books		Reference Books		Seeking Information		Maps / Diagrams		Tables / Graphs		Evaluating Information		Oral	Visual	Written	Process	Outcome
		P	I	S	P	I	P	I	S	P	I	S	P	I	S					
Level		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
Test		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
Performance Task(s)		✓	✓																	
Teacher Assessment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Self-Assessment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	→	→	→	→	→	→
Peer Assessment																				

Status by end 1998

Trial 3 completed: Standardisation early 99	✓
Trial 2 completed: Standardisation 99	✓
Trial 1 completed: Standardisation mid 99	✓
Pilot stage: Standardisation mid 99	✓
In Writing/Review: Standardisation mid 99	✓
Yet to commence	✓

Table2: Content Analysis: Library Skills Tests

Numbers are the question numbers in each test

Topic	Primary	Intermediate	Secondary
Catalogue Use			
Author	10, 22, 23, 27, 31, 32	19, 21	11, 23
Dewey Number	11, 13, 20, 23, 24, 28, 29, 30, 34	15, 17, 18, 21, 22, 23, 24, 26, 27, 28, 29	5, 8, 9, 22, 27, 28a, 28b, 29
Item Format		3, 8	
Publication Place		5, 16iii	
Publication Year	21, 22	6, 16v	4
Publisher		9, 16iv	
Subject / Key Words	12, 14, 15, 16, 17, 18, 20, 26, 29	1, 7, 11, 12, 13, 14	6, 7, 9, 13, 14, 15, 18, 20, 22, 24, 26, 29
Title	9, 18, 19, 21	16ii	7, 25
Library Section			
Big Book	5		
Catalogue	8		
Fiction	1, 7, 33	2, 20	8
Non-Fiction	3, 6, 11, 35	17, 18, 30	
Reference	2, 4		1
Vertical File		10	
World Wide Web			19, 21
Library Location			
Search Procedures	25	11, 13, 14, 15, 22, 24, 25	16, 22, 23, 24, 25, 26, 30
Shelf / Bay	23, 29, 30, 31, 32, 34	17, 18, 19, 20, 23, 26, 27, 28, 29	11, 13, 27, 28a, 28b, 29
Signposts/Maps	1, 2, 3, 4, 5, 6, 7, 8		
Spine Labels	28, 29, 30		5, 27, 28a, 28b, 29
Evaluation of Sources			
Authority			19, 21
Completeness			2
Comprehensibility		4	3, 17
Currency/Recency	21, 22	6	4
Relevance			18

Table 3: Teacher Rating Form - Independence

<i>Understanding the Catalogue</i>	<i>Likely Response</i> <i>Works independently.</i>	<i>Likely Response</i> <i>Seeks help only after some effort.</i>	<i>Likely Response</i> <i>Seeks help before own effort.</i>	<i>Likely Response</i> <i>Works is unfocused.</i>	<i>Likely Response</i> <i>Work is abandoned.</i>
1. Knowing how to use the catalogue.	Uses the on-line or printed help materials.	Help after effort.	Help before effort.	Starts aimlessly playing with catalogue.	No effort.
2. Understanding the catalogue entry information.	Refers to on-line or printed help materials.	Help after effort.	Help before effort.	Starts browsing the shelves.	No effort.
3. Finding too much material from the catalogue.	Refines list by using narrower search terms or limiting tools.	Help after effort.	Help before effort.	Deals with the whole list or just the first few items.	No effort.
4. Finding no appropriate items.	Restarts with a different search terms.	Help after effort.	Help before effort.	Uses inappropriate items anyway.	No effort.
5. Finding a mixture of relevant and irrelevant items.	Sorts out and uses relevant items only.	Help after effort.	Help before effort.	Uses irrelevant items anyway.	No effort.
<i>Locating Items on the Shelf</i>	<i>Works independently.</i>	<i>Seeks help only after some effort.</i>	<i>Seeks help before own effort.</i>	<i>Works is unfocused.</i>	<i>Work is abandoned.</i>
1. Knowing where the correct section is.	Refers to the library map, sign posts, or other guides.	Help after effort.	Help before effort.	Starts browsing.	No effort.
2. Knowing on which shelf the material is.	Follows shelf guides & spine labels in correct order.	Help after effort.	Help before effort.	Starts browsing.	No effort.
3. Using other relevant items when the item looked for is not on the shelf.	Browses related items on the shelf.	Help after effort.	Help before effort.	Starts browsing.	No effort.
4. Finding a 'non-book' item.	Checks the catalogue for its proper location.	Help after effort.	Help before effort.	Starts browsing.	No effort.
5. Finding an item that has been checked out of the library.	Places a 'reserve' on the item.	Help after effort.	Help before effort.	Starts browsing.	No effort.
6. Finding items that are inappropriate, (eg. too general, too technical, etc.).	Browses for other related items on the shelf.	Help after effort.	Help before effort.	Uses inappropriate material anyway.	No effort.

Table 4: Sampling Design Parameters - Trial 3 Postal Method

Level	Primary		Intermediate		Secondary	
<i>Year</i>	5	6	7	8	9	10
Number	100	100	100	100	100	100
Gender	<i>Male 50%</i>			<i>Female 50%</i>		
Decile	<i>Low (1-3)</i>		<i>Middle (4-7)</i>		<i>High (8-10)</i>	
	25%		50%		25%	
Area	<i>Rural/Small Town</i>		<i>Provincial Cities</i>		<i>Major Urban</i>	
	25%		25%		50%	

Table 5A: Primary Library Skills - Test Results

	Trial3	Trial 2	Trial 1
<i>N</i>	184	106	113
<i>Time</i>	T4 98	T3 98	T2 98
<i>Year Level</i>	5 & 6	5	6
<i># Items</i>	35	40	31
<i>Average</i>	19.8 56.7%	15.0 37.6%	14.1 45.5%
<i>Std Dev</i>	8.01	7.34	5.69
<i>Std Err Avg</i>	.50	.71	.54
<i>Std Err Meas't</i>	2.46	2.73	2.38
<i>Coefficient alpha</i>	.91	.86	.82

Table 5B: Intermediate Library Skills - Test Results

	Trial3	Trial 2	Trial 1
<i>N</i>	237	124	100
<i>Time</i>	T4 98	T3 98	T2 98
<i>Year Level</i>	7 & 8	7	8
<i># Items</i>	33	34	28
<i>Average</i>	16.4 49.6%	15.3 44.9%	14.6 52.1%
<i>Std Dev</i>	6.79	6.14	4.59
<i>Std Err Avg</i>	.44	.55	.46
<i>Std Err Meas't</i>	2.47	2.52	2.23
<i>Coefficient alpha</i>	.87	.83	.76

Table 5C: Secondary Library Skills - Test Results

	Trial3	Trial 2	Trial 1
<i>N</i>	178	94	97
<i>Time</i>	T4 98	T3 98	T2 98
<i>Year Level</i>	9 & 10	9	10
<i># Items</i>	31	32	32
<i>Average</i>	17.2 55.3%	15.2 47.6%	17.5 54.6%
<i>Std Dev</i>	5.56	5.7	5.06
<i>Std Err Avg</i>	.42	.59	.51
<i>Std Err Meas't</i>	2.38	2.38	2.33
<i>Coefficient alpha</i>	.82	.83	.79

Table 6: Correlation Analysis

(Pearson Correlation Coefficients / Prob > |R| under Ho: Rho=0 / Number of Observations)

	SEX	TVER	YEAR	DECILE	TEST	CAT	LOC
SEX	1.00000	-0.03789	-0.03762	0.04875	0.26816	0.19643	0.27260
gender (0 = Male 1 = Female)	0.0	0.5126	0.5155	0.3993	0.0001	0.0015	0.0001
	301	301	301	301	301	258	258
TVER	-0.03789	1.00000	0.95043	-0.08316	-0.16049	-0.13971	-0.03720
test version	0.5126	0.0	0.0001	0.1501	0.0053	0.0248	0.5520
	301	301	301	301	301	258	258
YEAR	-0.03762	0.95043	1.00000	-0.09999	-0.12397	-0.12281	-0.01063
school year	0.5155	0.0001	0.0	0.0833	0.0315	0.0488	0.8651
	301	301	301	301	301	258	258
DECILE	0.04875	-0.08316	-0.09999	1.00000	0.26500	0.04393	0.04778
school decile group	0.3993	0.1501	0.0833	0.0	0.0001	0.4823	0.4448
	301	301	301	301	301	258	258
TEST	0.26816	-0.16049	-0.12397	0.26500	1.00000	0.58644	0.60498
test score	0.0001	0.0053	0.0315	0.0001	0.0	0.0001	0.0001
	301	301	301	301	301	258	258
CAT	0.19643	-0.13971	-0.12281	0.04393	0.58644	1.00000	0.87159
catalogue rating	0.0015	0.0248	0.0488	0.4823	0.0001	0.0	0.0001
	258	258	258	258	258	258	258
LOC	0.27260	-0.03720	-0.01063	0.04778	0.60498	0.87159	1.00000
location rating	0.0001	0.5520	0.8651	0.4448	0.0001	0.0001	0.0
	258	258	258	258	258	258	258

Table 7A: Mean Scores by Test Version

	Primary		Intermediate		Secondary				
	N	Mean	Std Dev	N	Mean	Std Dev	N	Mean	Std Dev
Test	94	19.4	7.7	120	16.6	7.2	87	16.5	5.8
Catalogue	65	21.0	3.3	120	18.7	5.4	73	19.0	5.5
Location	65	23.8	5.1	120	22.1	6.7	73	23.1	6.5

Significant differences* exist between the Primary and Intermediate Tests and the Primary and Secondary Tests. A similar difference exists for the Catalogue Rating.

Table 7B: Mean Scores by Decile Group

	Decile Low		Decile Middle		Decile High				
	N	Mean	Std Dev	N	Mean	Std Dev	N	Mean	Std Dev
Test	47	15.2	6.8	177	16.6	6.9	77	20.7	6.8
Catalogue	47	19.1	4.6	163	19.3	5.4	48	19.8	4.3
Location	47	22.4	5.7	163	22.7	6.6	48	23.4	5.8

Significant differences* exist between the High and Low Deciles and the High and Middle Deciles for the test only. No significant difference for Catalogue and Location Rating.

Table 7C: Mean Scores by Gender

	Male			Female		
	N	Mean	Std Dev	N	Mean	Std Dev
Test	147	15.5	7.3	154	19.3	6.4
Catalogue	125	18.3	5.4	133	20.3	4.5
Location	125	21.0	6.7	133	24.5	5.4

Significant differences* exist between the Males and Females for all three measurements.

*Tukey HSD test.

Table 8A: Test Score Manova Summary*

<i>Source</i>	<i>DF</i>	<i>SS Type III</i>	<i>Mean Square</i>	<i>F Value</i>	<i>Pr > F</i>
Decile	2	969.1	484.5	11.85	0.0001
Gender	1	1124.7	1124.7	27.50	0.0001
Year	3	436.4	145.5	3.56	0.0150
Error	249	10183.0	40.9		
Total	257	12866.4			

*Based on Least Square Means, All other effects not significant

Table 8B: Catalogue Rating Manova Summary*

<i>Source</i>	<i>DF</i>	<i>SS Type III</i>	<i>Mean Square</i>	<i>F Value</i>	<i>Pr > F</i>
Gender	1	224.4	224.4	9.41	0.0024
Error	249	5937.1	23.8		
Total	257	6552.0			

*Based on Least Square Means, All other effects not significant

Table 8C: Location Rating Manova Summary*

<i>Source</i>	<i>DF</i>	<i>SS Type III</i>	<i>Mean Square</i>	<i>F Value</i>	<i>Pr > F</i>
Gender	1	735.9	735.9	19.99	0.0001
Error	249	9167.5	36.8		
Total	257	10279.8			

*Based on Least Square Means, All other effects not significant

Table 8D: Overall Effects Significance*

<i>Effect</i>	<i>Wilks' Lambda</i>	<i>F</i>	<i>DF</i>	<i>Pr > F</i>
Decile	0.903	4.308	6	0.0003
Year	0.911	2.578	9	0.0064
Gender	0.874	11.773	3	0.0001
Year x Decile	0.894	1.766	15	0.0357

*Based on Least Square Means, All other effects not significant

Table 9A: Principal Components Analysis

<i>Component</i>	<i>Proportion</i>	<i>Members</i>	<i>Weights</i>	<i>Meaning</i>
1	0.369	Test Catalogue Location	0.496 0.551 0.545	Measurement
2	0.277	Test Version School Year	0.661 0.664	Age
3	0.141	Decile Group	0.921	Decile
4	0.127	Gender	0.937	Gender
<i>Cumulative</i>	0.914			

N= 258, 7 Variables (last 3 components ignored due to small size)

Table 9B: Principal Factor Analysis

<i>Factor</i>	<i>Proportion</i>	<i>Members</i>	<i>Weights</i>	<i>Meaning</i>
1	0.563	Location Catalogue Test Gender	0.909 0.890 0.687 0.307	Measurement & Gender
2	0.442	Test Version School Year	0.958 0.957	Age

Figure 1: Design Processes: Library Skills Tests

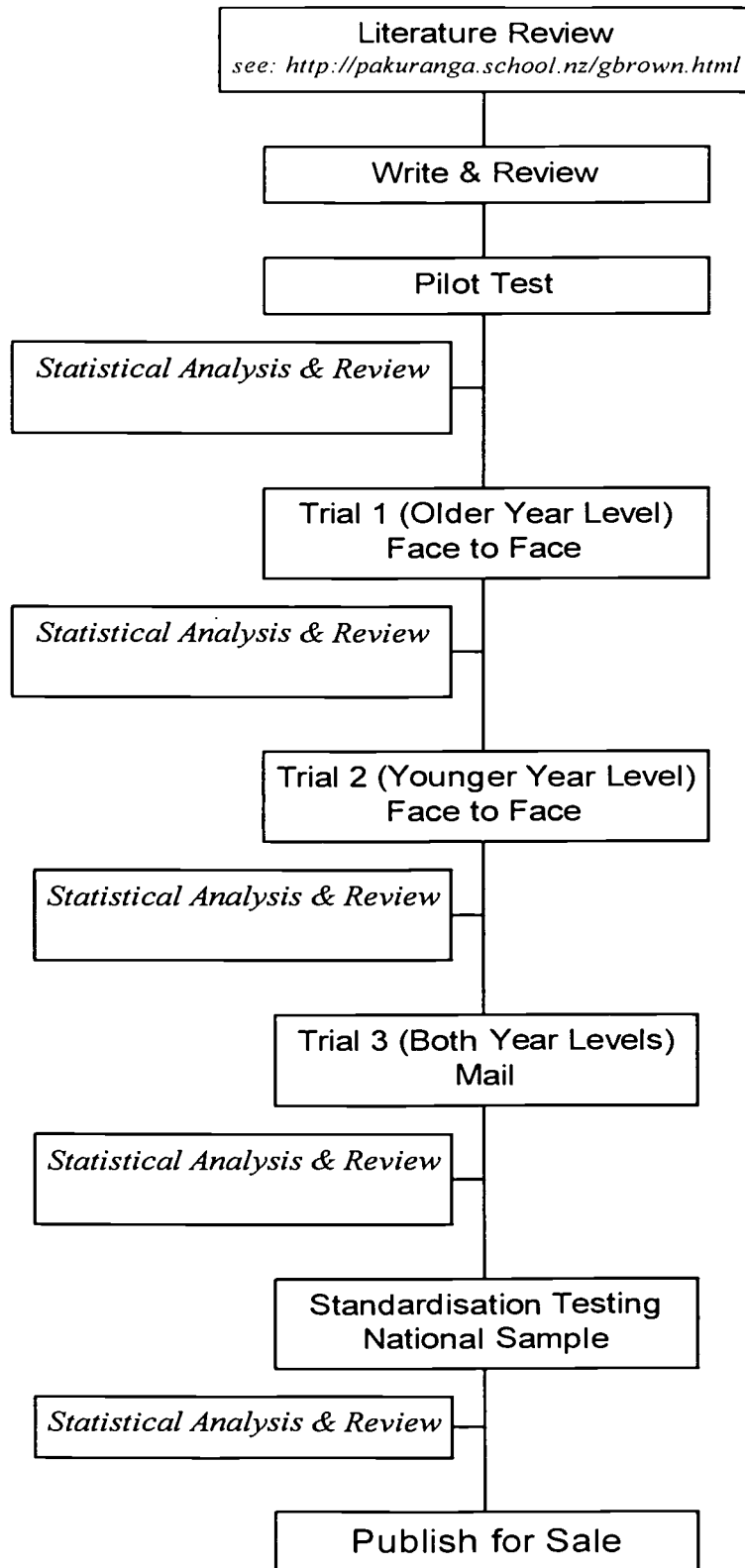
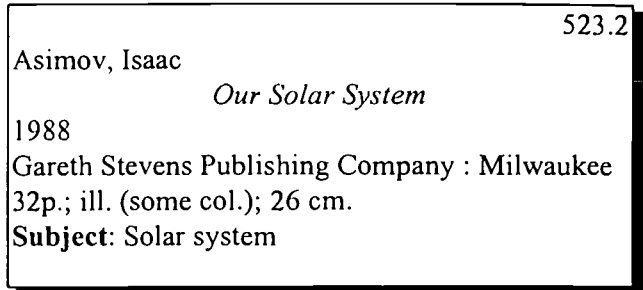


Figure 2: Dewey Decimal Sample Questions

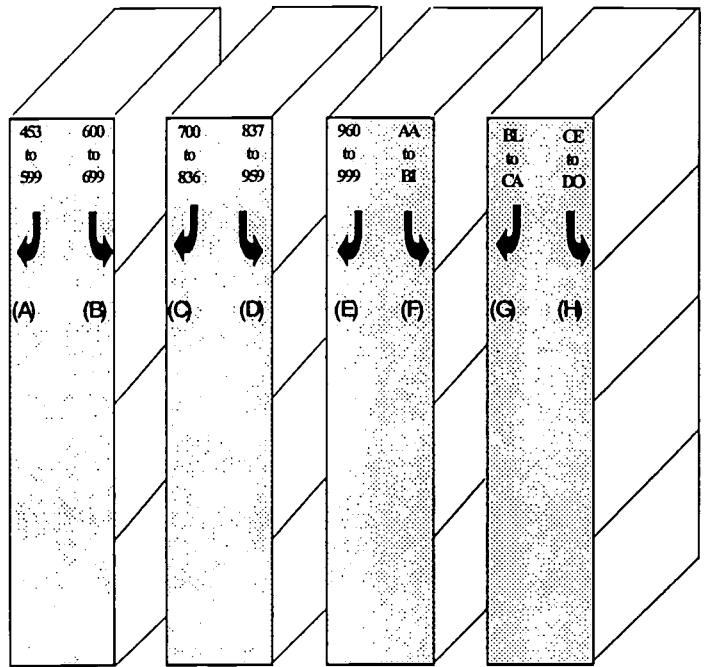
Primary

- (13) What does the number 523.2 mean?
- (A) There are two books on this topic on the shelf.
 - (B) There are 523 pages in the book.
 - (C) There are two books by this writer in the library.
 - (D) The book is in the 523 section of the library.
- [D 83% pb 0.49]



Intermediate

- (17) In which bay on which you would find a book with the number 959.9?
- [D 70% pb 0.39]
- (18) *Air Transport* by Robert Baird at number 600 would be in which bay?
- [B 71% pb 0.39]



Secondary

- (28) One book on the shelf is in the wrong place.
- (A) Write the full spine label number of the one book that is in the wrong place.
[303.3 EHI 54% pb 0.62]
 - (B) Write the letter (A-F) that shows the two books between which the misshelved book should go.
[A 33% pb 0.44]

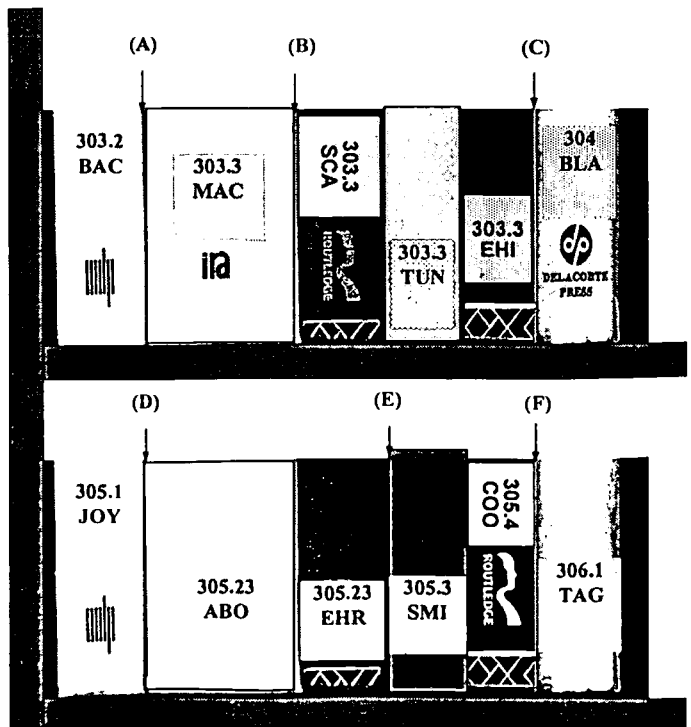


Figure 3: Some Problematic Items - Secondary Test

Below is the search screen of a computer library catalogue. Use it to answer questions 22 to 25. For each question put your answer in the correct field of the catalogue screen. All the answers go in the one screen.

Write in the correct field exactly what you would type in if you were looking for:

- (22) books on the topic 'comets – 523.6'.
- (23) a book by Carl Sagan.
- (24) information about "technology used in space".
- (25) the book *The Dragons of Eden*.

WELCOME TO THE SCHOOL LIBRARY CATALOGUE
Enter Your Request in the Fields

Author Search:

Title Search:

Subject/Key Word Search:

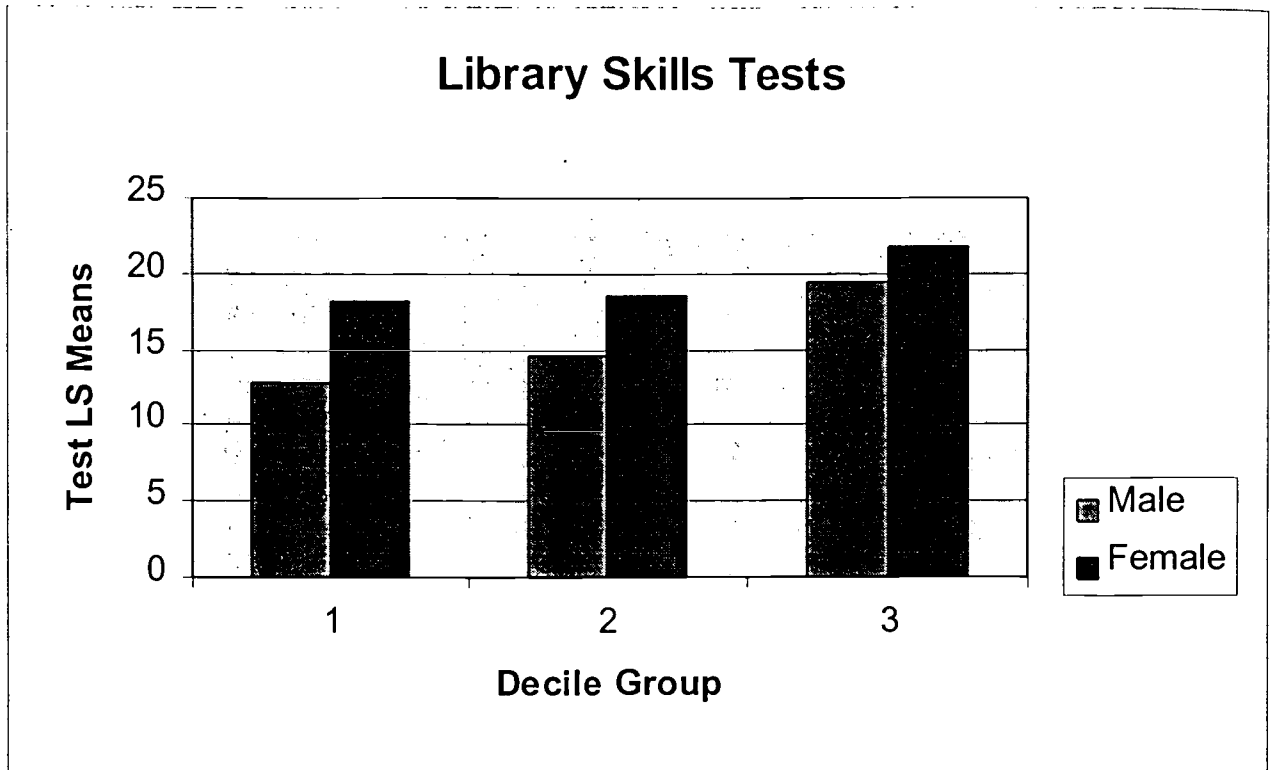
Dewey Number Search:

Search

** Remember to check the accuracy of your entry.*

BEST COPY AVAILABLE

Figure 4: Decile & Gender Results





U.S. Department of Education
 Office of Educational Research and Improvement (OERI)
 National Library of Education (NLE)
 Educational Resources Information Center (ERIC)



Reproduction Release
 (Specific Document)

I. DOCUMENT IDENTIFICATION:

Title: Assessing an essential skill: Finding information in the library.	
Author(s): Gavin Brown	
Corporate Source: New Zealand Council for Educational Research	Publication Date: 1997

II. REPRODUCTION RELEASE:

In order to disseminate as widely as possible timely and significant materials of interest to the educational community, documents announced in the monthly abstract journal of the ERIC system, Resources in Education (RIE), are usually made available to users in microfiche, reproduced paper copy, and electronic media, and sold through the ERIC Document Reproduction Service (EDRS). Credit is given to the source of each document, and, if reproduction release is granted, one of the following notices is affixed to the document.

If permission is granted to reproduce and disseminate the identified document, please CHECK ONE of the following three options and sign in the indicated space following.

The sample sticker shown below will be affixed to all Level 1 documents	The sample sticker shown below will be affixed to all Level 2A documents	The sample sticker shown below will be affixed to all Level 2B documents
PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL HAS BEEN GRANTED BY _____ TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)	PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL IN MICROFICHE, AND IN ELECTRONIC MEDIA FOR ERIC COLLECTION SUBSCRIBERS ONLY, HAS BEEN GRANTED BY _____ TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)	PERMISSION TO REPRODUCE AND DISSEMINATE THIS MATERIAL IN MICROFICHE ONLY HAS BEEN GRANTED BY _____ TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)
Level 1	Level 2A	Level 2B
Check here for Level 1 release, permitting reproduction and dissemination in microfiche or other ERIC archival media (e.g. electronic) and paper copy.	Check here for Level 2A release, permitting reproduction and dissemination in microfiche and in electronic media for ERIC archival collection subscribers only	Check here for Level 2B release, permitting reproduction and dissemination in microfiche only
Documents will be processed as indicated provided reproduction quality permits. If permission to reproduce is granted, but no box is checked, documents will be processed at Level 1.		

I hereby grant to the Educational Resources Information Center (ERIC) nonexclusive permission to reproduce and disseminate this document as indicated above. Reproduction from the ERIC microfiche, or electronic media by persons other than ERIC employees and its system contractors requires permission from the copyright holder. Exception is made for non-profit reproduction by libraries and other service agencies to satisfy information needs of educators in response to discrete inquiries.

Signature:	Printed Name/Position/Title: Gavin Brown, Researcher	
Organization/Address: NZCER PO Box 3237 Wellington 6000 Zealand	Telephone: 64-4-802-1468	Fax: 64-4-384-7933
	E-mail Address: gavin.brown@nzcer.org.nz	Date: 8 April 1999