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ABSTRACT

This guide for a workshop offered in Queensland. Australia on resource-based teaching and learning strategies for flexible delivery of curriculum lists workshop objectives and program topics and provides background on the presenters. The following program topics are then discussed in more detail: (1) definitions, requirements, and advantages of resource-based teaching and learning; (2) flexible delivery in a business setting, within the classroom, or through individual study; (3) the impact of competency-based training curriculum on the teaching process; (4) competencies for information users; (5) information retrieval and research skills; (6) planning for resource-based teaching and learning; and (7) top level structure, i.e., a strategy for identification of the structures that an author has used in constructing a text so the learner can decompose the information. Supplemental materials include worksheets for various information retrieval activities, a chart of key competency strand/performance level, a diagram of Bloom and Krathwohl taxonomies of cognitive processes, a table of application of Bloom's Taxonomy of Cognitive Processes, and a checklist for planning library assignments. (ALF)



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RESOURCE-BASED TEACHING AND LEARNING



Jointly presented by Library Network Branch

&

Mount Gravatt Colleg**e of TAFE**

MT GRAVATT COLLEGE OF TAFE

NOVEMBER 1992

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AIM & OBJECTIVES

The aim of this program is to introduce a selection of resource-based teaching and learning strategies as a method for flexible delivery of curriculum.

At the end of the program participants will be aware of:

- environmental factors impacting on the TAFE curriculum and its delivery
- how resource-based teaching and learning can be used as a delivery method
- how information resources are used
- information retrieval strategies that can be included in learning activities
- planning strategies for the use of this delivery method
- support available through the college library.

PROGRAM

- 1. The TAFE environment
- 2. Definition and examples of resource-based teaching and learning
- 3. The concepts of information literacy
- 4. Information retrieval and research skills
- 5. Basic concepts of resource-based teaching and learning
- 6. Putting resource-based teaching and learning into practice
- 7. Interchange of ideas and thoughts



PRESENTERS

Robert Burnheim

Learning Strategies Support Librarian, Library Network Branch

Previous to his appointment to TAFE, Robert worked with the Department of Education in the Division of Curriculum Services. He has presented many workshops on the effective use of information resources, the development of information literacy skills and the services required to support the effective delivery of the competency-based training curriculum.

Anne Floyd

Senior College Librarian, Mt Gravatt College of TAFE

Previous to this position, Anne acted as User Services Librarian at Library Network Branch and prior to that was manager of Resource Services at Redland Community College. In 1991 she was awarded a QEVET Scholarship for travel to Europe to research the implications of competency-based training for library services.

During the first part of 1992, Robert and Anne conducted a state-wide investigation of the library and resource services required to support the delivery of a competency-based training curriculum. The report of this investigation is available through all TAFE college libraries. Information gathered through that investigation will be featured during this workshop.

Robert and Anne both hold qualifications in teaching and librarianship.

MORE INFORMATION?

If further information is required, Robert can be contacted on 07 840 4727 while Anne is available on 07 343 5988 extn 240.



WHAT IS RESOURCE-BASED TEACHING AND LEARNING?

We define resource-based teaching and learning as:

Structured learning activities where the student has primary responsibility for the information transfer process.

Resource-based teaching and learning requires:

- significant planning and preparation
- students to accept greater responsibility for the quality and depth of their learning
- teachers to provide motivation, management, guidance, remedial assistance, reference points and pastoral support

Resource-based teaching and learning represents a move away from the teacher providing nearly all information to the student through lessons, to the teacher providing the student with opportunities and activities for the student to locate, retrieve, evaluate and use information.

Resource-based teaching and learning is not dependent on the teacher's presence at the site of learning. While resource-based teaching and learning is independent of the teacher's physical presence, it is highly dependent on the quality of planning done by the teacher.

When considering the use of resource-based teaching and learning, we need to acknowledge that:

- Not all students learn equally well through the same strategies.
- Certain methods are more applicable to particular situations.
- No single method is superior, particularly in terms of student performance, to another in all situations

Prent M. 1988, Curriculum Development and Design, Sydney, Allen and Unwin. p.126

Resource-based teaching and learning provides opportunities for learning activities to be structured so that they provide high reality and relevance to the actual situation. While featuring lower levels of direct teacher participation, they encourage higher than average learner involvement in the teaching process.



5

SOME THOUGHTS ABOUT RESOURCE-BASED TEACHING AND LEARNING

The following statements address some of the why, where and how questions that arise when considering the idea of resource-based teaching and learning. From the library perspective, the use of this teaching delivery style will help students to become aware of the wide range of information resources available to them. Resource-based teaching and learning, when used as the delivery mechanism, will build the information literacy skills of the students and provide ample opportunities for them to practise and master skills.

We need to develop and enhance the individual's potential to optimise learning by developing the knowledge, skills and attitudes that are essential for managing learning.

We need to provide students with the skills to become informed decision makers, effective communicators and life-long learners.

As educators, we must move away from text books, passive listening and treating the teacher as the fount of all knowledge, master of rote learning and large class instruction.

Resource-based teaching and learning has a part to play because it:

- allows for different starting points
- allows for a variety of learning outcomes
- allows for a variety of experiences
- allows each student to process learning in a variety of ways
- encourages student decision-making and choice-taking
- maximises opportunities for exceptional students
- allows the use of a variety of evaluation procedures.

Most competency-based training curriculums suggest that delivery methods used need to consider:

- a focus on demonstration of achievement
- differing rates of learning and achievement
- nonaligned movement through the course
- movement away from the need to engage in a full course of instruction

The use of resource-based teaching and learning delivery techniques will help teachers to work to these suggestions.



FLEXIBLE DELIVERY

Flexible delivery concerns the adoption of learning approaches which do not rely solely on traditional, classroom based, face-to-face teaching.

Flexible delivery proposes the delivery of instruction away from the institution to utilise the facilities of business and industry. Included are:

- work-based training i.e. training directed by the demands of work expectations
- action learning i.e. training under real conditions. An example may be teaching carpentry skills by building an actual dwelling on-site rather than training by building models or samples.
- enterprise training. i.e. training to the specific need and conditions of the business/industry. This training may not always lead to the awarding of a credential.

The adoption of flexible delivery approaches within the classroom may see the following methods used:

- self-paced learning
- video, audio and computer-based learning
- learning centres
- resource-based teaching
- self-managed work groups.

Where individual study is adopted, this may occur off-campus, at home, in the workplace or at an open learning centre. Featured will be:

- resource-based external study
- telecommunication-based delivery telecommunication-based support.



IMPACT OF COMPETENCY-BASED TRAINING CURRICULUM ON THE TEACHING PROCESS

0 Student centred education \circ Individualised instruction 0 Don't hold back the more able student O Extension work 0 Teacher as the manager, facilitator, motivator 0 Change from whole class teaching to individualised instruction 0 Versatility in and breadth of teaching style(s) Range of delivery techniques 0 0 Use of more resources Teaching resources become learning resources

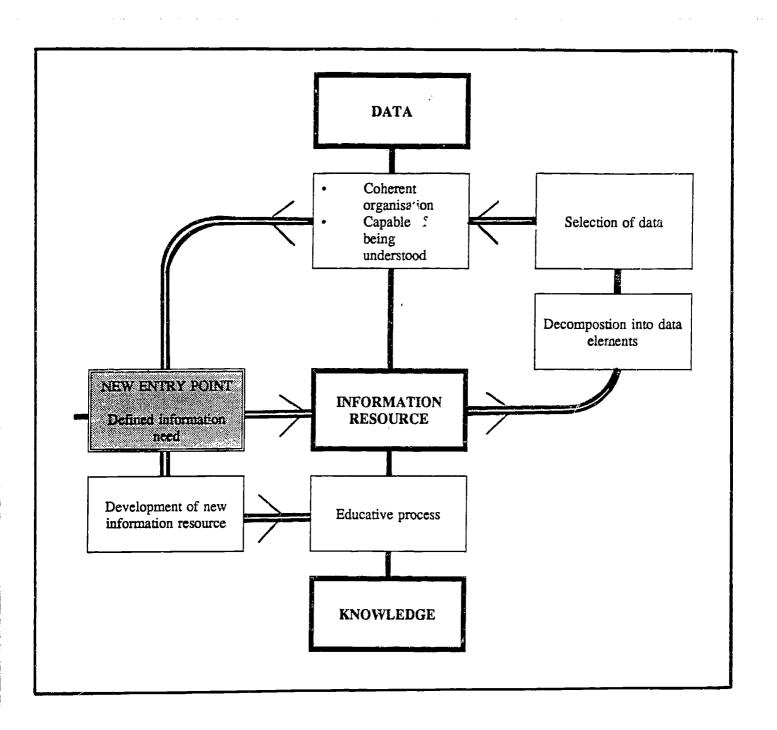
COMPETENCIES TO BE ACHIEVED

In these, competency-based times, what competencies does the student need to have to be a competent user of information. Based on the work of Mich. Marland (1981), the following competencies should be achieved.

The student is able to:

- formulate and analyse the information need
- identify and appraise the worth of likely sources
- trace and locate individual resources
- examine, select and reject individual resources in the light of the information need
- interrogate resources to isolate required information
- record and store information
- interpret, analyse, synthesise and evaluate the information gathered
- present and communicate findings
- evaluate the conduct of the process.







INFORMATION RETRIEVAL AND RESEARCH SKILLS

Retrieving information and turning it into relevant and useful knowledge is a complex task which requires three basic competencies.

1. ORIENTATION

Students need to have knowledge of:

- where materials are located (main library, campus library, satellite collections)
- library layout
- borrowing entitlements
- what materials are available (books, journals, newspapers, video tapes, audio tapes, slides, maps, charts, pamphlets, indexes, CD-ROM's, computer databases, models, hardware)
- what facilities are offered (circulation, quiet reading rooms, private study areas, group work areas, audiovisual hardware for viewing, personal computers, typewriters, inter-library loans, on-line searching)
- what location tools are available (OPAC [On-Line Public Access Catalogue], card catalogues for non-catalogued materials, indexes, [either hard copy, on-line or CD-ROM]) and Reference Desk Services.

2. <u>INFORMATION RETRIEVAL</u>

Information seekers need to be competent and confident users of the following:

- OPAC (On-line Public Access Catalogue)
- Card catalogues
- Classification systems used in libraries (LC and Dewey)
- CD-ROM



Information retrieval cont.

- Microfiche (TAFE Union Catalogue, QUT Catalogue)
- Computer databases
- Journal indexes (print, CD-ROM, or on-line for the more sophisticated user)
- Table of content and index of book
- Using video presenters, tape recorders, film projectors, slide and filmstrip projectors
- Photocopiers

3. RESEARCH SKILLS

Students need to acquire the ability to:

- read for speed
 - for different purposes (ranging from identifying the usefulness of material to complex understanding of concepts)
 - effectively read diagrams, graphs, statistical tables (visual literacy)
- establish goals and purpose of research
- manage time to complete the task for the required deadline
- transfer the research skill previously acquired to new situations
- locate suitable materials
- make decisions about what material is relevant to their needs and what is peripheral to their immediate needs
- note-take from different material mediums (including active listening)
- sort and organise material into a logical sequence
- **communicate** their knowledge and information to others (either by oral or written communication, formally)
- footnote and prepare bibliographies to accompany written presentation of material
- present tasks in a highly effective format (may require word processing skills)



PLANNING FOR RESOURCE-BASED TEACHING AND LEARNING

TEACHER					
Planning	Planner				
which delivery method	•				
which methodology (individuals, pairs, groups)					
identification of past skills and experiences (RPL)					
prepare standards/criteria	Facilitator				
mode of presentation - oral, written					
prepare unit prepare timeline					
Evaluate and Revise	Supporter				
methodology of delivery					
Teams					
liaise with library staff pre-plan unit ensure adequate resources arrange team teaching of information retrieval and research skills	Team Member				
liaise with other college staff resource teachers literacy teachers counsellors					
• liaise with other teachers					

	STUDENT
Individual	Motivation
	why this material
	why this method
	Development of Autonomous Learner
Responsible	• confidence
	• risk taker
	effective communicator
	self motivated
	time manager
Decision-Maker	•goal orientated
	Responsibility and Control for own learning and behaviour
	decision making
	• problem solving
	• individual differences
	• individual learning styles
Team Member	Self Managed Teams
	develop team skill
	• learn from peers

OUTCOME - COMPETENCE

Skill, Knowledge, Understanding



TOP LEVEL STRUCTURE

Top level structure was developed by Brendon Bartlett. This strategy involves the identification of the structures that an author has used in constructing a text. By using this strategy, learners can access the author's textual structure and identify the intent of the work thus enabling information decomposition to occur. By retaining the structure, or adhering to a structural design, it becomes easy to organise information data coherently, thus creating information resources. Top level structure analysis can be used with most print and non-print resources.

Decomposition

All information resources have structure. If they did not, they would have little use. They would be incapable of being understood, they would lack coherency. If the information user is able to identify the structure decomposition of the information resource becomes relatively easy.

The structures that are most commonly used would appear to be:

- listing
- problem/solution
- question/answer
- cause/effect
- comparisons.

Each of these structures can be identified through a variety of keys.

Examples are:

Listing

Look for phrases such as:

- There are several types of . . .
- Some features of this model are . . .
- First we observed . . . then . . .
- The sequence of events was

Problem/Solution and Question/Answer

These phrases are often used:

- The solution to . . . was . . .
- ... solved ...
- The trouble was caused by . . .
- We need to . . . so that



Cause/Effect

Look for

- ... may be due to ...
- If . . . then . . .
- As a result of . . . the following happened . . .

Comparison

Phrases to be on the alert for are:

- in contrast
- on the other hand
- similar to
- compared with.

Recomposition

Just as all prepared information resources have structure, so too should the information resources developed by the student. The same structures, as described above, can be used by students to:

- analyse the intent of a question and thereby establish the information need
- organise the collection of data, and
- provide a logical shape to the information resource being developed.

There are clues that the student should be alert for that will indicate the structure to be developed. The following phrases and question stems will be commonly found/.

Listing

- What are
- Show the steps
- Describe in order

Problem/Solution and Question/Answer

- Analyse
- Discuss
- If

Cause/Effect

- What was the outcome
- Outline the causes of
- What effect

Comparisons

- Discuss the advantages and disadvantages of
- Show the difference
- How effective



LISTING INFORMATION RETRIEVAL

Look for these words in the text: all also as time passed haracteristics first then first for example for instance later lots of many parts next sequence several some features such as to begin with types Look for these words in questions and assignment topics: Arrange Describe in order Detail List What are Show the steps				
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CONCEPT:	CONCEPT:			
IDEAS/POINTS:	IDEAS/POINTS:			
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PROBLEM/SOLUTION and QUESTION/ANSWER INFORMATION RETRIEVAL

Look for these words in the text:

adaptions

because

difficulties

need to prevent

option of

problem

question/answer

result

so

solution

solved

trouble

Look for these words in questions and assignment topics:

Analyse Discuss Diff

PROBLEM or QUESTION	SOLUTION or ANSWER
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COMPARATIVE INFORMATION RETRIEVAL

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This chart has been set up for three way comparisons. Where more than three cases are being examined, extra sheets should be used.

CASE 3:	
CASE 2:	
CASE 1:	
COMPARISON POINT	



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CAUSE	EFFECT/S
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Performance Level 3	Access, evaluate and organise information from a range of sources	Express complex ideas and information in unpredictable or unfamiliar situatons	Initiate, perform, and evaluate a complex activity independently	Collaborate with others to complete complex activities $2\hat{\imath}$
Performance Level 2	Access, select and organise information from more than one source	Express complex ideas and information in familiar situations	With guidance, plan and organise a complex activity	Help formulate and achieve group goals
Performance Level 1	Access and record pieces of information from a single source	Express routine ideas and information in familiar situations	Plan and organise a routine activity under supervision	Work with others to undertake familiar activities
Ferformance Key Competency Strand	Collecting, analysing and organising ideas and information	Expressing ideas and information	Planning and organising activities	Working with others and in teams

BLOOM & KRATHWOHL TAXONOMIES

COGNITIVE AFFECTIVE

KNOWLEDGE - RECEIVING COMPREHENSION -— RESPONDING APPLICATION — - VALUING ANALYSIS — **ORGANISING** SYNTHESIS -**EVALUATION** -CHARACTERISING



APPLYING BLOOM'S TAXOROMY OF COGNITIVE PROCESSES

and Training, Victoria 1991)	SOME POTENTIAL ACTIVITIES AND PRODUCTS	Make a list of the main events. Make a timeline of the events. Make a facts chart. Write a list of any pieces of information you can remember. List all the (?) in the text. Make a chart showing.
(From Achieving Excellence, Ministry of Education and Training, Victoria 1991)	SAMPLE QUESTION STEMS	What happened after? How many? Who was it that? Can you name the? Describe what happened at? Who spoke to? Can you tell why?
	USEFUL VERBS	tell list describe relate locate write find
ERI Il tox Provides	NKING PROCESS	KNOWLEDGE

Which is true of false ...? Find the meaning of ...? What is ...? name state

What do you think could of happened Can you provide an example of what What differences exist between ...? Can you distinguish between ...? Who was the key character ...? Write in your own words ...? What was the main idea ...? Write a brief outline ...? Who do you think ...? you mean ...? next ...? distinguish interpret translate compare discuss outline describe explain predict restate

Prepare a flow chart to illustrate the sequence of events. Make a cartoon strip showing the sequence of events. Develop a colour-coded diagram of the process. Illustrate what you think the main idea was. Illustrate some aspect of the event/process. retell in your own words. Write a summary report.

Draw pictures to show an event.

COMPREHENSION

Do you know of another instance where Can you group by characteristics such What questions would you ask of ...? Can you apply the method used to What factors would change if ...? some experience of your own ...? Could this have happened in ...? construct complete Illustrate calculate examine classify solve show nse 3

Can you provide a definition for ...?

APPLICATION

Take a collection of photographs to illustrate/demonstrate a Construct a model to demonstrate how it would work. Make up a scrapbook about the area(s) of study. particular point.

Design a market strategy for your product using a known Make up a puzzle game using ideas from the study area. strategy as a model.

Design a mural using the same materials. Write a textbook about ... for others. Would this information be useful if you

develop a set of instructions about ...?

From the information given, can you

Secation cont.

distinguish analyse

ANALYSIS

examine

investigate categorise

identify

separate explain

presented in ...? nave been? outcomes? compare advertise contrast

If ... happened, what might the ending Which events could not have happened?

What was the underlying theme of ...? What do you see as other possible How was this similar to ...?

Can you compare your ... with that Why did ... changes occur?

Can you explain what must have nappened when ...?

How is ... similar to ...?

What are some of the problems of ...? Can you distinguish between ...?

What were some of the motives behind

What was the turning point?

What was the problem with ...?

Why don't you devise your own way to If you had access to all resources, how Can you see a possible solution to ...? Can you design a ... to ...? would you deal with ...?

How many ways can you ...? What would happen if ...?

construct

design

imagine mprove

compose

invent

SYNTHESIS

predict

plan

Design a questionnaire to gather information. Write a commercial to sell a new product.

Conduct an investigation to produce information to support a view.

Construct a graph to illustrate selected information. Make a flow chart highlighting critical stages.

Show relationships using a branch (i.e. family tree) diagram. Develop a jigsaw puzzle based on the process. Put on a play about the study area.

Write a biography of the person studied. Prepare a report about the area of study.

Create a new product. Give it a name and plan a marketing Design a building to house your study/work. Invent a machine to do a specific task. campaign.

Write a TV show, play, role play about ... Write about your feelings in relation to ...

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Make up a new language code and write material using it. Design a record, book or magazine cover for ... Sell an idea. SOME POTENTIAL ACTIVITIES AND PRODUCES

eric cont.

formulate propose devise

Can you develop a proposal which %... plnow

Is there a better solution to ...?

Do you think ... is a good or bad thing? Can you defend your position about ...? How would you have handled ...? Judge the value of ...

choose

select

judge

EVALUATION

decide

What changes to ... would you

debate

verify argue

justify

recommend?

Are you a ... person? Do you believe ...?

recommend

determine

prioritise

discuss

assess

What do you think about ...? How would you feel if How effective are ...?

Make a booklet about five rules, laws or principles that you see Prepare a list of criteria to judge a ... show. Indicate priority Conduct a debate about an area of special interest. as important. Convince others. and ratings.

Form a panel to discuss views, e.g. "Drum brakes are more effective than disc."

Write a letter to ... advising on changes needed at to ... prepare a case to present your view about ... Write a half-yearly report.

LIBRARY PREPARATION CHECKLIST

This list, originally developed at Logan College of TAFE, provides a checklist to be used when planning assignments.

٥	Set realistic goals by checking the library first and locating the quantity of resources available on your particular topic. Your librarian can advise on resources for assignment topics
	Consider potential modes of presentation when checking available resource; for example, audio-visual productions.
	Be wary of setting a topic that is too recent as written materials may be limited.
	Beware of subjects that are too specialised as information may be limited and specific materials may not be readily available.
0	Freeze resources which will be in high demand by your students before you give them their assignment topics.
	Offer a range of questions on any specific topic.
<u> </u>	Arrange a session of reader education for your class with library staff. This session should include information search skills and resources that may be useful in working to the assignment topic.

