บทคัดย่อ การวิจัยเพื่อพัฒนาใช้ ใมโครคอมพิวเตอร์เป็นสื่อในการเรียน การสอนทักษะการอ่านภาษาอังกฤษแบบเอกัตภาพ

แสงระวี เชาว์ปรีชา

การวิจัยนี้มีจุดมุ่งหมาย เพื่อศึกษาความเป็นไปได้และประสิทธิภาพของการนำไมโครคอมพิวเตอร์มาเป็น สื่อในการเรียนการสอนทักษะการอ่านภาษาอังกฤษแบบเอกัตภาพ โดยใช้โปรแกรมที่สร้างขึ้นด้วยภาษา BASIC

ขอบเขตของการศึกษา คือ การทดลองเปรียบเทียบการเรียนการสอนทักษะการอ่านภาษาอังกฤษกับกลุ่ม ตัวอย่าง ซึ่งเป็นนิสิตระดับปริญญาโทของบัณฑิตวิทยาลัย จุฬาลงกรณ์มหาวิทยาลัย ในสาขาวิชาต่าง ๆ คือ วิศวกรรมศาสตร์ วิทยาศาสตร์ พาณิชยศาสตร์การบัญชี และรัฐศาสตร์ จำนวน 24 คน โดยกลุ่มตัวอย่างทั้งหมด ผ่านการทดสอบก่อนการทดลอง เพื่อแบ่งเป็นกลุ่มผู้เรียนที่มีความสามารถทางการอ่านภาษาอังกฤษทัดเทียมกัน 2 กลุ่ม คือ กลุ่มควบคุมเรียนกับอาจารย์ผู้สอนแบบปกติในชั้นเรียน และกลุ่มทดลองเรียนกับผู้วิจัยและใช้ไมโครคอมพิวเตอร์เป็นสื่อบทเรียนที่ใช้สอน เป็นบทอ่านของหลักสูตรภาษาอังกฤษแบบเข้มของสถาบันภาษา จุฬาลงกรณ์ มหาวิทยาลัย และได้รับการดัดแปลงเพื่อใช้กับโปรแกรมที่สร้างขึ้น เพื่อให้ผู้เรียนในกลุ่มทดลองใช้เรียนกับไมโครคอมพิวเตอร์ บนพื้นฐานของการเรียนการสอนแบบเอกัดภาพและเสมือนมีผู้สอนพิเศษเป็นรายบุคคล นั่นคือ ผู้ เรียนสามารถเรียกข้อมูลจากแผ่นแม่เหล็กที่เตรียมไว้มาเรียนได้ตามความต้องการ โปรแกรมบทเรียนจะสามารถโต้ ตอบกับผู้เรียนได้ โดยให้บทอ่าน ตั้งคำถาม ตรวจคำตอบแสดงผลเป็นการชมเชย หรือตำหนิในทันที่ที่ผู้เรียน ตอบ แล้วเก็บคะแนนรวมทั้งแสดงผลการเรียนเมื่อเริ่มเรียนบทต่อไปได้

ผลการทุกลอง ปรากฏว่า สมฤทธิ์ผลจากการเรียนของผู้เรียนกลุ่มทุกลองและกลุ่มควบคุม แตกต่างกัน โดยนัยสำคัญที่ระดับ 0.05 หรืออีกนัยหนึ่งผู้เรียนที่เรียนโดยใช้โปรแกรมที่สร้างขึ้นกับไมโครคอมพิวเตอร์เป็นสื่อ มีสัมฤทธิ์ผลทางการเรียนสูงกว่ากลุ่มควบคุม และแตกต่างกันอย่างเป็นที่พอใจ นั่นคือกล่าวโดยสรุปแล้ว การนำ ไมโครคอมพิวเตอร์มาใช้ในการเรียนการสอนทักษะการอ่านภาษาอังกฤษจะช่วยครูผู้สอนได้เป็นอย่างมาก

ภาคผนวก A ตัวอย่างบทเรียนที่ใช้คอมพิวเตอร์เป็นสื่อ

BUSINESS FUNCTIONS SEC1
SECTION 1:

WHAT IS BUSINESS?

Within a capitalist society, (economic system which is based on competition, profit, supply and demand) the prime (most important objective of a business is to make a profit by selling a product or a service, whether tangible (able to be clearly defined) or intangible. This product or service could be a can (tin) of beans, systems analysis training, a train trip or a motor car. In every case the business organisation, from the small shop to the international company, aims to make this profit by satisfying the needs of a group of consumers.

These needs or demands can usually be satisfied in one or more of the following ways.

- a. Obtaining (at some cost), processing, and selling a product, as in mining, agriculture or fishing
- b. Purchasing, processing and selling a refined (purified)
 or changed product. This could be an extension (continuation)
 of 1, above. For example iron one (raw material used to make iron) may be made into steel by

firm (company) A, but then sold to firm B, which makes stel sheets and finally used by firm C, which makes car bodies.

- c. Purchasing and distributing, as in retailing.
- d. Offering a service such as car repairing, sub-contract (doing part of another contract machining, or computer services.
- e. Offering expertise, (special knowledge or skill) as in consultancy, (a company or person who provides advice) insurance, banking or education.
- f. Offering facilities, (amenities) such as houses or hotels.

The list above divides business into 6 groups, numbered 1-6. Look at the businesses below and write the number of the group it belongs to after each one.

1 A logging company
 (i.e. a company that cuts
 down tres)

YOUR ANSWER IS

FVEN THE BEST CAN BE WRONG

THE RIGHT ANSWER IS a

2 A liquor store

(i.e. a shop that sells
wines and spirites)

YOUR ANSWER IS B YOU GOOFED SANGRAWEE THE RIGHT ANSWER IS C

3 A sports club

YOUR ANSWER IS a

BE CAREFUL SANGRAWEE

THE RIGHT ANSWER IS f

4 A market research company

(i.e. a company that examines

current trends in the business

world, e.g., would it be

profitable for company A to

manufacture a new product B.)

YOUR ANSWER IS b

NO NO NO

THE RIGHT ANSWER IS e
5 A shoe repair shop
YOUR ANSWER IS g
NO WAY, SANGRAWEE
THE RIGHT ANSWER IS d
6 A petrol refinery
YOUR ANSWER IS a

THINK REAL HARD

THE RIGHT ANSWER IS b

Two important factors must be recognized. First, a barter economy will not satisfy all our needs. (A barter economy is one in which needs can only be satisfied by exchanging one's own products for different ones made by someone else.) This means finding someone else who has what you want and who also wants what you have. The use of money payments simplifies this by

providing a medium of exchange, (something of an agreed value which can be used in payments) and by allowing goods to be exchanged which are of different values. Second, a profit can be made if the consumer is willing to pay more for the goods sand services than it costs to provide them.

- 7 "factors" means
 - a. aspects
 - b. divisions

YOUR ANSWER IS EVEN THE BEST CAN BE WRONG THE RIGHT ANSWER IS a

YOUR TOTAL SCORE IS 0 OUT OF 7 OR O %

ภาคผนวก B

ตัวอย่างบทเรียนที่ใช้ครูสอน

MANAGEMENT

This unit is about management (running a business), which is one of the most important concepts in Commerce and Accountancy.

According to one famous classification, management consists of the following activities: (1) planning, (2) organization, (3) command, (4) co-ordination, and (5) control.

Now write the number of the activity above after the explanation of it below:

(a)	making sure everything goes
	according to plan
(b)	making sure everyone works together for a common purpose
(c)	achieving a division of laborate (work) which will lead to an effection execution (carrying out) of plans
(d)	telling people what they are required to do, and making sure they do it
(e)	deciding how the business will continue in the future

THE HISTORY OF MANAGEMENT

MANAGEMENT has, of coures, been practised since the dawn of human history. Men have always collaborated with one another in hunting and building and agriculture and many other activities. Such collaboration for a common purpose means that arrangements have to be made for a division of labor, which in turn necessitates the existence of a leader-someone whose task it is both to make the arrangements and to see that the remainder of the group carries them out. Where the group is a very simple one, there may be no formal (official)

there may be no round tolling
appointment of a leader. Everyone
knows what his job is and how it
fits in with the other man's job,
he regards it as natural and
inevitable that he should play his
part in the group.
1. "collaborated" means
a. worked together
b. practised management
2. "carries them out" means
a. does the work
b. takes them away
3. "regards" means
a. considers
b. thanks
The next paragraph talks about
'originals'.
1. In which sentence are we told
what 'originals' means?
sentence:
2. The writer uses other words or
phrases to refer to these
'originals'.
What does he use in the second
and third sentences?
In 2:
In 3:
and

But even among primitive group there were originals, people who did not want to work or who wanted to work in ways different from those laid down (specified) by tradition. If there had not been such people there could have been no progress in man's knowledge and mastery over his environment. They were, however, regarded as a nuisance; they wanted to disturb the habit patterns of the rest of the group, the comfortable working arrangements which everyone understood and to which they were accustomed. There were also quarrelsome (argumentative) people and men who wanted other mens' wives, or ornaments or other possessions; they, too upset the orderly social life of the group.

1.	"r	nuisance" means	
		troublemakers	
	b.	leaders	
2.	"(ornament" means	
	a.	decorative objects	
	b.	useful tools	
3.	"u	ipset" means	
	a.	disturbed	
	b.	helped	
	1.	In this paragraph the wigives three examples of peo	
		who disturbed the social	life
		of the group. They were	e :
		1	• • • • • •
		2	
		3	·••••
	2.	What is the writer's attit	ude
		to the 'originals'?	
		(a) critical	
		(b) favourable	
		ANSWER:	
	3.	Which sentence tells us	the
		answer to question 2?	

sentence:

Out of these necessities man evolved (i.e. developed) institution of leadership. Individuals, because of their age, or knowledge of the customs of the group, or superior strength or cunning which made others afraid of them, acquired authority. They became the leaders of their groups. People did what such men told them to do. Where this authority was supported by the general feeling of the group it was much more powerful than when it rested solely on fear. But whatever its foundation (basis), it served to hold the group together, to enable men and women to collaborate in tasks of various kinds without disturbance of the social patterns they had evolved. 5. "cunning" means a. cleverness b. leadership 6. "solely" means a. only b. mainly 1. "acquiring authority" is similar to "becoming a leader". T: F?				
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a. onlyb. mainlyl. "acquiring authority" is similar to "becoming a leader".T: F?				
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b. mainlyl. "acquiring authority" is similar to "becoming a leader".T: F?				
1. "acquiring authority" is similar to "becoming a leader".T: F?				
similar to "becoming a leader". T: F?				
T:F?				
2. Give two examples of how people				
2. Give two examples of now people				
acquired authority (a)				
				
(b)				
3. This authority depended on one				
of two things; either on fear				
or on				
4. If it depended on fear, it was				
less				
The function of this primitive				
form of leadership was essentially				
conservative. (i.e. wanting to				
prevent change) The leader was				
there to protect the working group				

against interference, to prevent the outsider, the ignorant or the inept from disturbing its routines and the customary methods of working together. If change became necessary, the leader had instinctive idea as to how much change the members of the group would accept at any time, how it should be introduced, and in what directions. Undoubtedly, the discipline (control) exercised by this kind of leadership was often drastic (having a very strong effect) and tyrannical. (obtaining obedience by force) But the worst penalties were reserved for the innovator (person who makes changes) and the heterodox. (person who holds beliefs different from those that are generally accepted)

- 1. "inept" means
 - a. someone who wants to change things
 - b. someone who always says the wrong thing

The function of the leader was to encourage change. T: F?

Although changes were not readily accepted in early society, new ideas were of course adopted (accepted) from time to time. Some of these were of small consequence, but at rare intervals there came changes of far-reaching importance. The change with which we are concerned is the change from an economy based primarily on handicrafts and natural sources of power-wind, water, gravity and so on-to an economy based on power-driven machinery.

- 1. "at rare intervals" means
 - a. strangely
 - b. very occasionally
- 2. "far-reaching" means
 - a. having a wide range of applications
 - b. having a long-term effect

1. The change referred to in the last sentence was of small
consequence. T:F?
2. Wind, water, etc. are examples
of
3. What is the main idea of the first sentence above?
(a) changes were not readily accepted
(b) new ideas were adopted
Answer:
4. what do you expect to read
about next?
The origin of this change was
the scientific curiosity (desire
to investigate) released by the
Renaissance. (period of revival
of literature and art in the 14th-
16th centuries) The resources
which were released by the early use
of power-driven machinery acted as a powerful stimulant to further
investigations, particularly in the
physical sciences. For the last
two centuries there has been a
great acceleration in man's
knowledge and power to control his
material environment-first steam,
then electricity, then nuclear
fission and atomic energy.
3. "stimulant" means
a. incentive
b. force
4. "acceleration" means
a. speeding upb. increase
Steam, electricity, nuclear fission
and atomic energy all help man to
chis e
Paralleled with (i.e. at the same time as) these discoveries in the
time as) these discoveries in the

sources of power there was a similar increase in knowledge about the

materials used in manufacture, and there was a progressive refinement of the machines themselves. From a power-driven tool designed to carry out a single process previously performed by a single craftsman (someone who works with his hands), many modern machines have become a closely integrated (working together) complex of mechanical tools carrying out series of processes automatically, so that in many instances it is possible to feed in raw material at one end and to take out an end-product ready packed at the other.

1. Underline the word "refinement" in the above paragraph. You know what "fine" means-can you guess the meaning of "refinement"?