GUESSING' THE MEANINGS OF WORDS FROM CONTEXT: STRATEGY AND TECHNIQUES

D. F. CLARKE and I. S. P. NATION

D.T.E.C. Language Institute, Bangkok, and English Language Institute Victoria University, Wellington, N.Z.

conjunction relationships is given in the Appendix. The previous research, and relationships); 4, guessing the word and checking the guess. A basic list of immediate grammar; 3, studying the wider context (usually the conjunction involves four steps: 1, determining the part of speech of the word; 2, looking at the guidance for teachers or learners. This article describes a strategy for guessing meanings from context and suggests ways of practising this strategy. The strategy as a useful skill there has been little research in this area and very little useful value and applications of the skill are discussed and suggestions are made for future Although the skill of guessing word meanings from context is widely acknowledged

1. Previous studies

unknown words can be successfully dealt with in this way. The few studies of guessing words from context indicate that a large proportion of the

administered to Freshman university students whose mother-tongue was English. The test Seibert (1945) carried out two studies to show the effectiveness of guessing word meaning alternative technique of marking was used. average, 60% of the blanks were correctly filled by the university students. The acceptable dangerous tool.' (p. 300). The second study was a modified cloze test in 'without context to check the meaning of the words, etymology, when faulty, may be a etymology accounted for between 10% to 40% of the guesses. However, Seibert noted that main words proved to be guessable. Because of the similarities between French and Spanish, words in Spanish reading texts by making use of etymology and context. 60% to 90% of the but with no previous knowledge of Spanish attempted to guess the meanings of the main from context. In the first study, university teachers with a knowledge of French and Latin pretested with university teachers to ensure that all blanks were guessable. On the

Honeyfield (1977) also suggests the use of modified cloze as a way to practise guessing words from context. Evidence from Wainman (1979) suggests that standard cloze tests and is a central part of the reading process and may only differ slightly from the inference and modified cloze tests measure the same thing. If this is true, then guessing words from context prediction which characterizes intelligent reading.

Seibert's (1945) we shall use the more widely accepted and less awkward term Guessing. ¹Inferring perhaps conveys the requirements of this skill better than the word Guessing. However in this study as in

Seibert suggested that this classification could be used as the basis for teaching the general meaning of a paragraph. Each of these categories was further sub-classified association, sentence structure, association of ideas, use of deduction, and clues found in processes involved in guessing. This resulted in five categories of clues, namely word Seibert also tried to investigate the conditions where guessing is possible and the mental

incidentally by meeting it in context, and concluded that a large quantity of words could be learnt in this way without using a dictionary or glossary. Saragi et al. (1978) investigated the amount of new vocabulary that could be learnt

2. The present study

Our experience shows that learners with a vocabulary of around 3,000 words are capable of guessing, on average, 60—70% of the unknown words in a reading passage. Some unknown words cannot be guessed from context. Let us look now at a strategy for doing then every learner can achieve a similar score with training. In any passage very few of the learner can find enough clues in a passage to guess 80% of the previously unknown words, each with 10 to 15 words to be guessed, the range was 50-85%. In theory at least, if one passage used in one of our classes was 0-80%. After working on five passages in this way, remarkable improvement over as few as five passages. The range of achievement on the first regularly achieve around 80%. Secondly, practice with this skill results in

A strategy

and often over several sentences. The fourth step involves guessing the word and checking The third step is to look at the wider context of the word usually beyond the level of the clause to look at the immediate grammar context of the word, usually within a clause or sentence. look at the word itself and its surroundings to decide on the part of speech. The second step is The following strategy consists of four steps. They need not be taken in exactly the same order as is given here but it is worth making sure that each step is taken. The first step is to that the guess is correct. Let us now look at each step in detail.

- speech of the item in question. number of directions but all of them benefit from the learner first establishing the part of Guessing the meaning of words from the immediate context can be approached from a
- along the lines of, 'Who does what to whom?' For example, in the following sentence, cripple may be unfamiliar but can be adequately inferred according to the formula: Typhoon Vera killed or injured 218 people and crippled the seaport city of Keelung, the verb Knowing the part of speech of the word then allows one kind of analysis to take place

Typhoon Vera Verb Keelung

undesired) influence upon a city. given a negative value since it is likely that a typhoon will have some kind of negative (or 'neutral', many others can be assigned a positive or a negative value. Thus, cripple can be Typhoon Vera did something to Keelung. Although many verbs can be considered as

involved. However, the fact is that for a general understanding of a reading passage it is The precise meaning of cripple cannot of course be reached by this type of guessing, but learners should be able to produce such ideas as 'damage' or 'destroy'. Later sentences may synonym in their own language or the language they are studying meets with no success and to urge learners not to be over-concerned about exact meanings. Too often the search for a often sufficient to appreciate the general meaning of a word. Indeed, it is a useful technique help to show exactly how negative crippled is by telling about the amount of damage has a positive or negative value for adequate comprehension to take place. has a discouraging effect. In many cases, it is sufficient to establish that the unknown word

sentences and between one sentence and another is both essential to the reading process itself meaning (see Appendix). To make learners aware of the connection between parts of condition, contrast, classification or exemplification can be used as the basis for guessing The predictable patterns which accompany such areas of language as cause and effect, when considering segments of language larger than the immediate environment of a word. on a broad scale and valuable in the guessing of individual words. The idea of an unknown word having a positive or a negative value can be useful, also,

of teaching the guessing process. The sentence is from an article about the Loch Ness The following example of cause and effect and contrast in combination illustrates one way

appeared to be a diamond-shaped fin and snake-like neck. (Clarke, forthcoming). picture but although the photographs were hazy and indistinct, they did show what Because of the peat-laden water, not even the powerful lights were sufficient for a clear

following type of analysis can provide a strategy for guessing them. concession) unit in the second. The italicized words are taken to be unknown and the The short passage contains a cause and effect unit in the first half and a contrast (or

and so a good guess at its meaning can be made if the effect is understood. In this case, the useful in determining the meaning of the other. peat-laden (adjective) occurs in the cause Since the effect or result depends on the cause, an understanding of one clause can be very quite irrelevant to know the exact meaning of peat. unclear in some way. All these are sufficiently close for adequate comprehension, since it is said about water in connection with photographs? That it is cloudy, filled with particles, negative type of adjective when applied to water in this context. What negative things can be determination of meaning is not possible, but it is also not necessary. peat-laden is clearly a kind of water would prevent a clear picture being taken?' Once again, an exact effect is that clear pictures could not be obtained, and so the question might be asked, 'What

negative value can often help in guessing the meaning of a particular word in that clause photography). An awareness that a particular clause can be expected to have positive or cause (in this instance, murky water) generally has the same way as cause and effect. Conditional pairs — sentences containing if, unless, provided that etc — can be handled in Guesswork is helped in cause and effect pairs if the learners are aware that a negative-type a negative-type effect (poor

The positive/negative concept can also be applied to the use of contrast or concession

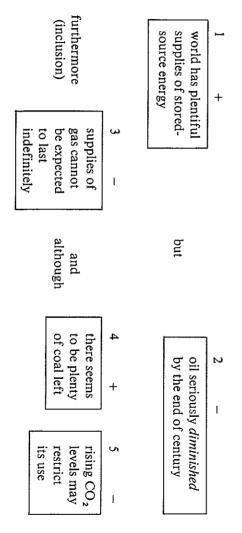
sufficient for general comprehension to know that the photographs are 'not good' in some about a photograph?' can be asked if a more specific meaning is required. However, it is adjectives as applied to photographs. Questions such as, 'What can be negative (or bad) negative and it is likely that the unknown adjectives hazy and indistinct are negative were obtained on the photographs. The although clause can therefore be assumed to be above, the second clause can be considered to be generally positive since at least some details predicted to be negative. In the example of contrast from the Loch Ness Monster passage In this case, if one clause can be considered positive in meaning, the other one can be

useful to teach a basic list of the words which mark such relationships. recognize contrast when it occurs. As with Cause and Effect and other relationships, it is great many of them do allow such a guessing procedure, provided that the learners can While not all Contrast pairs can be analyzed effectively in terms of positive or negative, a

same value, either positive or negative. Consider the following short passage: inclusion. Ideas linked together by and or other inclusive words can be assumed to have the (although this also has the function of marking sequence) is the commonest indication of Inclusion is used to mean one idea is added to, or is supportive of, an initial idea. And The teaching of the idea of inclusion can further expand the framework for guessing.

atmosphere will soon restrict its use. although there seems to be plenty of coal left, the rising carbon dioxide levels in the natural resource such as oil will be seriously diminished by the end of the century. Furthermore, the supplies of natural gas cannot be expected to last indefinitely, and At the present time, the world has plentiful supplies of stored-source energy, but a

In terms of contrast and inclusion, this passage can be broken down as follows:



(Clark, forthcoming)

Since the box before furthermore is negative, the box after it will also be negative, because and four are the same value, but in fact box three relates to box five, because of the Contrast Inclusion links similar values. The and before the fourth box might indicate that boxes three

marked by although. An awareness of the broad areas of meaning represented in this diagram will allow guessing of individual words in the way already described

down? stop? Reference to other nearby words might help to clarify the degree of negativity. century?' — reduce? run out? The general idea is clear enough. Similarly, restrict is expected and so the question can be asked, 'What negative thing can happen to oil by the end of the stopped is an impossible collocation. Thus 'stop' is an unlikely meaning for restrict (although it is very close) because seriously to be a negative-value verb. Thus, 'What negative thing can happen to the use of coal?' Diminished can be expected to have a negative value (particularly as linked with seriously)

guessed and it shows them that an approximation of meaning is all that is necessary in many that outlined here, gives learners new confidence that very many words can be intelligently approaching each clause as a separate item. The application of a definite strategy, such as Certainly, such a procedure encourages reading with a continual eye to context rather than way, but practice with marked examples leads to an ability to recognize unmarked types. Of course, many examples of cause and effect and contrast are not marked in an obvious

- context, and wider context, he should attempt to guess the meaning and then check his guess. There are three ways of checking: After the learner has gone through the three previous steps of part of speech, immediate
- speech as the word in the passage; 1) Check that the part of speech of the meaning that you have guessed is the same part of
- 2) See if the word has a prefix, root, or suffix that might give a clue to the meaning:
- 3) Substitute your guess for the word in the passage and see if it makes sense

initial guess determines the interpretation of the immediate and wider context instead of the prefixes. Beyond this, however, the advantages and disadvantages become more evenly matched. Thus it is best to use word analysis as a means of checking rather than as one of the doubt that it is worthwhile for learners to master a list of twenty or so of the most useful to have known roots and prefixes they in fact do not, and should not be analysed. There is no meaning of the whole is often not straightforward, and in some cases although words seem roots have several meanings, so the relationship between the meaning of the parts and the these words can easily be guessed by word analysis. This is because some prefixes and most 3,000 word level can be broken into prefixes, roots, and suffixes, only a small proportion of context influencing the guess. Secondly, although 25%-30% of the vocabulary above the before the immediate grammar and the wider context have been looked at. As a result the analysis of the parts of a word leads to guessing too early. That is, guessing then occurs guessing word meanings. There are several reasons for this. The most important is that steps for guessing. A notable feature of this strategy is the de-emphasis of prefixes and roots as means of

(laterally = coming after or later). Failure to understand the context produced some speech from the word in the passage. the commonest errors in using the strategy was to guess a meaning that was a different part of into their grasp of the strategy and also into difficulties they encounter while reading. One of The errors that learners make when guessing words from context give interesting insights Faulty analysis of word parts also led to errors

interpret owe correctly. When it was explained to them that the sentence meant The aridity errors. Most learners did not infer sparse correctly in the sentence Desert areas owe their of desert areas is caused by sparse rainfall, most were able to find the meaning correctly. aridity to sparse rainfall. After talking to some learners it was found that they did not

Our experience coincides with that of Bright and McGregor (1970:31)

means we are robbing him of a chance to practise this skill.' way is a skill that can only be acquired by practice. Every time we tell a pupil what a word 'Perhaps the most important thing of all is to remember that the ability to infer in this

In the next section we will look at techniques for practising the strategy

4. Techniques

does what? Who does what?' if the word is a noun or verb, or 'What is what?' if it is an & Nation, forthcoming). So learners can practise recognizing the part of speech of various context, word parts, can be practised separately before being combined into a strategy (Long exercise by analyzing sentences into boxes as in step 3 of the strategy above. reference to the text. The learners can also practise using the wider context as a separate adjective, or 'What does what how?' if it is an adverb. They answer these questions by line number of that word in the text. The learners must ask themselves questions like 'What adjectives, or adverbs in a text. In this exercise the teacher gives the learners a word and the words in context. They can do the What does what? exercise with various nouns, verbs, The various steps needed in the strategy, namely part of speech, immediate context, wider

doing a few words like this the learners are ready to work on their own. the word is, and then another looks at the immediate grammar of the word, and so on. After different learners to do each step. So one learner has the task of saying what part of speech word is chosen from the passage for the whole class to guess. The teacher then calls on to the learners using a word from the passage. The steps are put up on the board. Then one as homework. When the strategy is being introduced the teacher can demonstrate the steps The guessing strategy can be used in co-operative class exercises or for individual work such

be used. Here is an example. To guide the learners through the steps, some type of answer sheet or set exercise format can

canyon	improvized	ill-fated		Word
00	4	2		Line
			speech	Part of New
				New
			(immediate grammar)	What does what?
			(if any)	Relationship Guess
		-		Guess

find its meaning. As a lead into dictionary work a final column can be added where the cause-effect, or contrast etc., if the word is involved in a relationship which helps them to is a known word they leave it blank. In the column headed Relationship the learners write In the column headed New the learners write new if they did not know this word before. If it

not. For other examples of guided exercises see Clarke (forthcoming) and Long and Nation learners write the meaning given in the dictionary and evaluate if their guess was correct or

and then each pair explains the steps to the class and the teacher awards them a score (100%) and then each pair explains the steps to the class and the teacher awards them a score (100%) and then each pair explains the steps to the class and the teacher awards them a score (100%) and the teacher awards the t that they do not know. The pairs have a few minutes to discuss the steps and find the meaning little preparation. The learners work in pairs. Each pair is given one word from the passage correct, 80% etc.). As the learners become more skillful, guessing words can be done as a class exercise with

5. Further study

teaching this vital reading skill. help guessing? The answers to these questions will help to increase our effectiveness in guess than others. Is there an optimum density of news words to known words which will unsuccessful guessing are still not clearly understood. Certain parts of speech are easier to tests develop the skill of guessing word meanings? The conditions which lead to successful or measure of how well a learner can guess word meanings? How much does practice with cloze meanings from context has not been fully investigated. Is a score on a cloze test a reliable the foreign language and vice versa? The relationship between cloze exercises and guessing practice in guessing in the mother-tongue automatically result in improvement in guessing in Does the skill transfer from one language to another like the skill of speed reading? Will There are many things we do not know about the skill of guessing words from the context.

6. Value and applications

useful prerequisite for other activities. The skill of guessing meanings from context is a valuable one for several reasons, and is a

- the teacher and coupled with large amounts of extensive reading can result in rapid guessing meanings from context allows the learners to learn vocabulary without the help of courses to teach all the vocabulary needed for reading unsimplified material. The skill of 1. Honeyfield (1977) has shown that there is insufficient time in most second language vocabulary expansion.
- understanding of the word by discussing and classifying the concepts which lie behind the word. When a word has been met several times, the class can spend time organizing their interpreting the contextual meaning of a word, this will help increase their command of that times for learners to appreciate their range of meaning. If the learners have the skill of 2. Most words that have been dealt with in a course still need to be met in context several
- reading efficiency. At some stage it is worth giving learners practice in deciding which unguessable words should be looked up in the dictionary and which should be ignored. and allows the reader to continue reading without interruption. In this way it increases The ability to guess the meaning of a word without referring to a dictionary saves time
- some idea of what that word means so that it is possible to choose between the various 4. In order to look up the meaning of a word in the dictionary, it is first necessary to have confirmation or an extension of what has already been guessed. A useful class exercise is to meanings given. The information gained from the dictionary in most cases will be a

get learners to summarize the information they can get about the word from its use in context before looking at the dictionary. For example, 'What is the stem of the word? What is its part of speech? What sentence pattern does it occur in? If it is a noun, is it countable or uncountable?'

guessing meanings is in many ways developing the skill of reading. what should occur, and seek confirmation of the prediction. Thus developing the skill of To guess a meaning the reader must consider and interpret the available evidence, predict

APPENDIX

A basic list of conjunction relationships

12	Ξ	10	9	∞	7	6	S	4	·ω	2	_
Comparison	Classification	Summary/ Conclusion	Arrangement	Time	Condition	Cause-Effect	Contrast	Exemplification	Explanation	Exclusion	Inclusion
—er, more than, similarly, likewise, differently, equally	comprises, consists of, can be classified as, can be divided into	to sum up, in short, in a word, to put it briefly	firstly, finally, in the first place	when, before, after, while, subsequently, then	if, provided that, supposing that, as long as, unless, otherwise	because, since, as a result, thus, so that, in order to, consequently	but, although, despite, yet, however, still, on the other hand	for example, such as, thus, for instance	in other words, that is to say, I mean, namely	or, nor, alternatively, else, instead, rather than	and, furthermore, in addition, besides, also
A or B are similar or different in some way.	B and C are subclasses of A.	B summarizes A.	A and B are arranged in this sequence by the writer.	A and B actually occurred with this time or sequence relationship.	(a type of cause-effect relationship) Possibly A; if so, then B.	A is the cause of or reason for B.	B is contrary to the expectation raised by A.	B is an example of A.	B restates or names A.	A and B represent alternatives.	A and B should be considered together.

REFERENCES

BRIGHT, J. A. & McGregor, G. P. 1970 'Inference from context' in *Teaching English as a Second Language*, Longman, London, pp. 30—32.

CLARKE, D. F. forthcoming A course in reading strategy, London.

HALLIDAY, M. A. K. & Hasan, R. 1967 Cohesion in English, Longman, London.

HONEYFIELD, J. 1977 'Word frequency and the importance of context in vocabulary learning'. *RELC Journal*, 8, 2, pp. 35—42.

LONG, M. N. & Nation, I. S. P. 1980 Readthru Longman, Singapore

SARAGI, T., Nation, I. S. P., & Meister, G. F. 1978 'Vocabulary learning and reading' System, 6/2, pp. 72-78.

Modern Language Journal, 29, pp. 296-323. SEIBERT, L. C. 1945 'A study of the practice of guessing word meanings from a context'

WAINMAN, J. 1979 'Cloze testing of second language learners' English Language Teaching Journal, 33, 2, pp. 126-132.