The Application of Phonics to the Teaching of Reading in Junior High School English Classes in Japan

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Introduction

Communicating in English is increasingly required for Japanese people as members of an international society. The cultivation of communicative competence is the stated goal of English education in Japan today. It has been three decades since *Mombushô*, the Ministry of Education, established this objective, and over the years attempts to improve English L2 teaching have been undertaken. However, TOEFL results¹ clearly show that the country is far from reaching the Ministry's goal (Ochi, 1999). Takao Suzuki, a noted sociolinguist, concurs that, in general, the English ability of Japanese

people is surprisingly low; for example, university graduates who have studied English for eight to ten years cannot even give satisfactory directions to foreign travelers in Japan (1999).

One of the main factors which has contributed to such poor English proficiency among Japanese people is *yakudoku*, a foreign language learning method traditionally used in Japan.² Yakudoku, which means "translation reading," is a reading method in which English sentences are first translated into Japanese word-by-word, and then the resulting translation is reordered to suit Japanese word order. In the yakudoku-style class, which is typical of English study in Japan, a teacher reads the text aloud for his or her students and has them repeat it. Then the students give its word-for-word translation, usually assigned as the previous night's homework and written in their notebook, after which the teacher corrects their translation by offering grammatical explanations and provides a model translation. The goal of the class is to have students understand the exact Japanese translation; therefore, instead of working within the English text, the students concentrate strictly on Japanese translations. The yakudoku method is used by the majority of Japanese teachers of English from junior high school³ to university. Hino notes that according to two recent nation-wide surveys conducted by the Japan Association of College English Teachers, approximately 80% of Japanese teachers of English in high schools and universities used the yakudoku method, and by some estimates, 70% of Japanese university students today have been taught to read

English solely with this method (1988). This approach to teaching, however, undermines progress towards internationalization in Japan: "In terms of the teaching of English for communication needed today, *yakudoku* is undoubtedly a serious handicap for Japanese students of English" (p. 52). This is because the *yakudoku* method creates problems for English L2 learning; i.e., in the yakudoku-style class, little attention is given to phonetic sounds (Okuda, 1985; Nisato, 1989; Takiguchi, 1995). The essence or true nature of language is voice or speech sounds; without it, language cannot exist. Therefore, learning proper pronunciation is imperative for the study of a foreign language. In terms of English instruction, without having confidence in pronunciation, students not only lose the will to speak, but also confidence in every other aspect of English communication, including listening, writing, and reading (Matsuka, 1981, 1993). In addition, in Mombushô's Course of Study Guidelines, which define and control the contents of English teaching in secondary schools in Japan, emphasis is placed on the instruction of proper pronunciation, whereas the teaching of translation into Japanese is not even mentioned (Mombushô, 1988). In spite of this, the mastering of yakudoku skills is still strongly identified with the goal of learning English in Japan (Hino, 1988). As a consequence, the teaching of pronunciation (i.e., how to make English sounds or how to read English spellings directly with correct pronunciation) has

long been neglected in class, and this omission has caused the dual problem of the prevalence of "*katakana* pronunciation" and the rote memorization of long lists of vocabulary items.

Katakana is a Japanese syllabary (phonetic alphabet) used to transcribe words of foreign origin; however, it does not represent the exact English sounds and is actually often far from the correct pronunciation (Sugiura, 1994). Through katakana letters written under the text to show the reading, incorrect English pronunciation is promoted. Once this *katakana* pronunciation is acquired, it becomes a lifelong habit, one that is extremely difficult to break. The katakana pronunciation of English words, flourishing and used everywhere in Japan, is clearly an obstacle in the quest for proper pronunciation. In short, students cannot read words independently because they do not know the sounds of letters which constitute the words; i.e., they cannot connect the letters of the alphabet with their sounds. Without knowing how to read words, it is difficult to write them. This is simply because they are rarely taught the relationships between letters and sounds. Thus, the only way for students to keep up with classes is resorting to the rote memorization of the pronunciation and spelling of all words. This is the reason why English is often said to be a subject of rote learning in Japan. However, this strategy requires enormous efforts by students and creates a heavy workload so that those who lack the will to learn drop behind easily.

An important responsibility for teachers in Japan is to guide students in learning the association between letters and sounds so that they can read English independently. Because of these problems (i.e., *katakana* pronunciation and rote memorization of vocabulary resulting from the *yakudoku* method), phonics instruction is effective in providing a means of accomplishing these goals. It focuses on phonetic sounds so that students can be provided with instruction in proper pronunciation. Phonics deals directly with letter-sound relationships, as it is a teaching method for reading based upon the correspondence between spelling and sound. Through phonics teaching, students can gain confidence in their pronunciation because they learn the correct sounds that letters or letter combinations represent, so that by connecting them they are able to pronounce words properly. Therefore, *katakana* pronunciation or rote memorization of vocabulary is no longer needed. In short, phonics helps cultivate students' fundamental communicative skills in English in reading, writing, listening, and speaking.

Phonics is a teaching method developed in America in the 1800s to help children who had difficulty learning spelling by rote memorization. According to the Longman dictionary, phonics is "a method of teaching beginners to read by learning how to pronounce letters, letter groups, and syllables" (1995, p. 120). Heilman adds that "[p]honics instruction is teaching letter-sound relationships, [and its] purpose is to

provide beginning readers with a means of identifying unknown printed words" (1998, p. 27). Once children can recognize words by associating written letters with the corresponding speech sounds which they have already acquired, they can read books because they already know the meaning of words. Thus, learning to read means learning to sound out words (Flesch, 1986). Phonics instruction, as pre-reading, is given to children in many introductory English courses in English-speaking countries:⁴

Phonics is a common method of teaching new learners of English how to read in the United States. Teachers begin teaching phonics to students in kindergarten, age 5 and 6, and continue teaching it until 2nd grade, age 7 and 8. Today phonics is taught for a minimum of 30 minutes every day during the first three years of school. (Patton, 1994, p. 94)

For Japanese students, who know neither English sounds nor word meanings, phonics can also be a useful and necessary teaching method. Phonics is important for Japanese students because it

... teaches [them] how to sound out letters one by one. Through phonics, Japanese children learn (1) how to make correct English sounds (2) how to independently read English words and sentences and (3) how to spell out words they hear. Phonics provides the basics of English for beginning students. (Matsuka, 1992)

However, very little research has been conducted on the use of phonics in classrooms in Japan, and there is only one study which this author is aware of in which the effectiveness of phonics instruction was tested in Japanese junior high schools. In this study, reported by Morinaga, (1983), phonics instruction was given in an "intensive training course" which was not part of regular English classes. By using a phonics textbook which had a relatively small number of example words for each phonics rule (i.e., 450 vocabulary items in total, divided into 18 categories of phonics rules), 20minute sessions of phonics instruction were given to first and second year junior high students for a total of 13 sessions (i.e., four hours and 20 minutes). Pre- and posttests for reading were assigned in which each student was required to sound out 22 "nonsense words," and evaluation was based on whether the students could read the underlined part of these artificial words which reflected a phonics rule. The percentage of correct answers by first year students improved from 28.9% (pretest) to 59.1% (posttest) and by second year students from 53.4% to 64.5%. However, the phonics rules which were tested were not determined by analyzing the vocabulary in students' English textbooks, and it is not clear how they were taught, nor how the example vocabulary items were used to help them understand the phonics rules. There is also no information on the participants (e.g., how many, or how they were selected, etc.), and the results were not subjected to any statistical analyses. In addition, there was only one comparison made within the treatment group before and after phonics instruction, but no control group was established to verify the absence of extraneous variables. Nevertheless, the results that were obtained from this study are promising despite certain shortcomings in the research design. The present study has been designed to avoid many of the pitfalls described above in Morinaga's investigation. Rather than testing the effects of phonics instruction in an intensive, short-term fashion, this study focuses on comprehensive, long-term phonics instruction with clearly specified subjects, materials, and procedures. This research aims to show that phonics instruction is a useful and effective teaching tool when used in conjunction with Mombushô's curriculum in regular English classes in Japanese junior high schools. The goal of this study is to verify empirically that phonics instruction improves students' reading ability and raises their desire to learn Therefore, the following two research questions were tested in this English. investigation: (1) If students are provided with proper phonics instruction for an adequate period of time at the beginning stages of their English L2 education, will their reading ability show significant improvement? (2) If students undergo this kind of treatment, will they develop positive and enthusiastic attitudes towards their English studies?

Method

Subjects

The subjects of this investigation were first year students (ages 12 to 13) in Yodo Junior High School in Matsuyama. There were 220 students involved in the study, and they were divided into six classes with an average of approximately 37 students per class, equally divided between males and females. The six classes were uniform in terms of academic levels, although individual students varied in terms of their abilities.

In this investigation, one class (i.e., class 2) was used as the control group and did not receive phonics instruction; the other five classes (i.e., classes 1, 3, 4, 5, and 6) were used as the treatment group, in which phonics instruction was provided. The five classes of the treatment group were taught by this author,⁵ whereas the control group class was taught by another teacher who knew little about phonics and did not provide any phonics instruction. Classes 1, 3, 4, and 5 in the treatment group (N=142) were assigned preand post-instruction reading/listening tests, as was the control group (N=37), although these students did not receive any phonics instruction during the period between the tests. A small group of volunteer students from class 6 of the treatment group (12 out of a total of 37 students) were also assigned pre- and post- instruction reading/speaking

tests. In addition, the entire treatment group (N=179) was assigned a questionnaire about their phonics study.

Materials

The Phonics Textbook (See Appendix 1)

A phonics textbook was developed by this author and used in the treatment group classes. These teaching materials deal with the minimum essential phonics rules (i.e., the "sound alphabet," "magic E," "polite vowels," and 21 "letter combinations"),⁶ as determined by a vocabulary analysis of the subjects' English textbooks in terms of Matsuka's phonics rules.⁷ The textbook includes a brief explanation of each rule and many example words to which the rule is applied; i.e., about 25 example vocabulary items for each rule amounting to about 800 in total. (For further details on this phonics textbook, see Takeda, 2000, and Takeda, 2002).

The Reading/Listening Test, the Reading/Speaking Test, and the Questionnaire

The reading/listening test was a multiple choice pronunciation test, administered orally by the instructor. It was designed to be convenient for use with large groups so that many students could take this test together in the classroom in a short period of time. In contrast, the reading/speaking test, an individual interview-style verbalizing

test, was structured to be more suitable for a small number of students. Both tests consisted of the same vocabulary items; i.e., the reading/listening test required students to choose the correct pronunciation of target items and the reading/speaking test required students to sound them out. These tests presented 30 words which were unfamiliar to students and which were not included in either their English textbooks or the phonics textbook.⁸ However, these words reflected all of the most important phonics rules dealt with in the phonics textbook. Namely, each vocabulary item represented an application of one of these rules: items 1~5 on the test paper concerned the "sound alphabet," 6 and 7 "magic E," 8 and 9 "polite vowels," and 10~30 the 21 "letter combinations."

The questionnaire, which was adapted from previous research conducted by Sugiura (1994), included a series of questions which were designed to shed light on students' feelings about the phonics instruction they had received.

Procedures

The Phonics Instruction

The phonics instruction started in the first English class of first year students in Yodo Junior High School in April, 1999. This instruction was conducted in the first 10

minutes of each class by using the phonics textbook, and it lasted until the end of October. The organization of this six-month period of phonics instruction began with the "sound alphabet," which was taught carefully and thoroughly because this is the basis of all phonics instruction. It took one month for students to master this alphabet. Then, the students read short words which could be read entirely by applying only the sound alphabet. This exercise demonstrated the principle that any English words can be read by connecting the sounds of their constituent letters. Letter combinations involving "magic E" and "polite vowels" were then taught through the following steps:

(1) The phonics rule is arrived at inductively by students, i.e., the teacher does not provide explicit instruction on the rule at the beginning, but lets students discover it for themselves. For example, the rule ch=/t/ is presented by showing students the word *lunch*, which is familiar to most of them. The teacher asks them, "How do you pronounce this word?" Students reply, "/lAnt//." The teacher says, "Very good! Then, how about the *ch* part only?" Students respond, "/t//."

(2) The teacher provides careful instruction on how to make the sound of the letter combination by demonstrating the mouth shape and movement. Students then practice by sounding it out many times.

(3) Following the directions written in the textbook (i.e., "Try reading the words below according to the following instructions in ①-③. ① Underline the letter combination of each word. ② Read the underlined parts. ③) Read the whole word."), students attempt to read many example words which have the same letter combinations, using their developing "word attack skills."9

(4) The teacher checks their pronunciation and corrects them.

By building on the sound alphabet, the students gradually learned all of the essential phonics rules in a step-by-step process in their first six months of English instruction. After finishing the phonics textbook, they were assigned to read new words and new passages in their English textbooks by themselves, with the teacher's occasional Therefore, the period of "phonics application" which followed their assistance. fundamental phonics instruction was considered to be a period of "reinforcement" as their word attack skills developed.

In general, students showed a strong interest in this instruction, and enjoyed reading unknown words by themselves in the sense of "playing a game." They were actually able to read most of their new words correctly. Therefore, the first 10 minutes in every English class were not at all an obstacle to the advancement of the curriculum, but an enjoyable warm-up period which students seemed to find stimulating.

The Assessment

Before and after the period of phonics instruction (i.e., in April and December), preand posttests in reading/listening and reading/speaking were administered, and the questionnaire was completed by students along with the posttests. The posttests were conducted about two months after actually finishing the phonics textbook so that the knowledge students had obtained from their phonics instruction could be reinforced and completely assimilated in this time.

In terms of the reading/listening test, for each item, the teacher read the word three times, each time pronouncing the part of the word to which a phonics rule applies differently. One of these pronunciations was the correct one. For example, the word "phut"¹⁰ was pronounced /pAt/, /fAt/, and /hAt/. Students were required to listen carefully and choose the pronunciation which they thought was correct. Before the teacher began reading, students were given a few minutes to peruse all of the items in order to make preliminary guesses about their pronunciation. While the reading/listening test does evaluate the students' understanding of phonics rules, it is not a test of the students' pronunciation. Because the students must first read the test words to themselves before choosing the sounded word, this test does accurately examine the students' reading and listening abilities.

Because the reading/listening test does not examine the students' speaking abilities, the reading/speaking test covers this crucial missing element; i.e., the students' pronunciation. The reading/speaking test was conducted in an individual interview style with a student and two teachers facing each other across a table. The student was asked to pronounce each word printed on the test paper as clearly as possible, one by one, while the two teaches evaluated his or her pronunciation independently. Sometimes, as the need arose, students were asked to read certain words again more loudly or more slowly. Their pronunciation was graded from A to C.

The grading criteria are as follows:

- A: The student can read the entire word correctly.
- B: Though the student cannot read the entire word correctly, he or she can read the part of the word to which the phonics rule applies correctly.
- C: The student cannot read the part of the word to which the phonics rule applies.

Data Analysis

The results of these tests (i.e., pre- and post- reading/listening tests for the control and treatment groups and pre- and post- reading/speaking tests for the additional treatment group) were analyzed statistically to determine if significant progress resulted.

In terms of the reading/listening test, the pretest scores of the control and treatment groups (N=37, N=142, respectively) were compared using a *t*-test, as were the posttest scores. The gain scores between pre- and posttest scores for both groups were also compared using a *t*-test. In addition, the pre- and posttest scores of the treatment group were compared using a matched-pair *t*-test.

In terms of the reading/speaking test, the pre- and posttest scores of the volunteer group (N=12) were compared using a matched-pair *t*-test. ¹¹

In terms of the questionnaire which was administered to the entire treatment group (N=179), the percentage of each question was calculated and a number of representative student comments were selected to illustrate their attitudes.

Results

The Reading/Listening Test

The results of the statistical analysis of the pretest scores for the control and treatment groups are as follows:

Pretest Scores for the Control and Treatment Groups

Control Group Pretest Scores	Treatment Group Pretest Scores	Mean Difference	^t obs
37	142	· · · ·	
11.11	10.61	0.50	0.76
3.53	3.55		
	Pretest Scores 37 11.11	Pretest Scores Pretest Scores 142 11.11 10.61	Pretest ScoresPretest ScoresDifference3714211.1110.610.50

p<.01

As Table 1 shows, the pretest means scores for the control and treatment groups were 11.11 and 10.61, respectively, a difference of 0.50. Results of a *t*-test for the pretest scores of both groups revealed no significant difference in abilities between the groups prior to phonics instruction (p<.01).

The results of the statistical analysis of the posttest scores for both groups are as follows:

Statistic	Control Group Posttest Scores	Treatment Group Posttest Scores	Mean Difference	t _{obs}
N	37	142		
М	13.68	17.53	3.85	5.45*
SD	3.68	4.34		
*p<.01				

Table 2

Posttest Scores for the Control and Treatment Groups

As Table 2 shows, the posttest mean scores for the control and treatment groups were 13.68 and 17.53, respectively, a difference of 3.85. A *t*-test revealed a significant difference between the two groups after phonics instruction (p.<.01).

The results of the statistical analysis of the gain scores between pre- and posttest scores for both groups are as follows:

Statistic	Control Group Gain Scores	Treatment Group Gain Scores	Mean Difference	tobs
N	37	142		
М	2.57	6.92	4.35	5.45*
SD	4.04	5.26		<u></u>
*p<.01				•

Table 3

Gain Scores for the Control and Treatment Groups

As Table 3 shows, the gain score means for the control and treatment groups were 2.57 and 6.92, respectively, a difference of 4.35. A *t*-test revealed a significant difference in the improvement of students' abilities between the two groups (p<.01).

The results of the statistical analysis of the pre- and posttest scores for the treatment group are as follows:

Statistic	Treatment Group Pretest Scores	Treatment Group Posttest Scores	Mean Difference	^t obs
N	142	142		<u></u>
Μ	10.61	17.53	6.92	15.66*
SD	3.55	4.34	<u></u>	
*p<.01				

Table 4 Pre-and Posttest Scores for the Treatment Group

As Table 4 shows, the pretest mean score for the treatment group was 10.61, whereas the posttest mean score was 17.53, indicating a gain of 6.92. Results of a matched-pair *t*-test for the pre- and posttest scores revealed a significant improvement in students' abilities (p < .01).

These results indicate that the phonics instruction provided to the treatment group improved students' ability to read in English to a significant degree.

The Reading/Speaking Test

The results of the statistical analysis of the pre-and posttest scores for the volunteer group who did the reading/speaking test are as follows:

Table 5

Pre-and Posttest Scores for the Volunteer Group

Statistic	Volunteer Group	Volunteer Group	Mean	t _{obs}
	Pretest Scores	Posttest Scores	Difference	•••

Ν	12	12		
М	2.08	16.08	14.00	11.26*
SD	2.27	4.80		
*p<.01				

As Table 5 shows, the pretest mean score for the volunteer group was 2.08, whereas the posttest mean score was 16.08, indicating a gain of 14.00. Results of a matched-pair *t*-test for the pre-and posttest scores revealed a significant improvement in the students' ability (p<.01). This supports the results of the first experiment, confirming that phonics instruction was a significant factor in enhancing the ability of students to read in English.

The following graph shows the improvement of the reading ability of each of the 12 students who took this test:

Reading Test



Finally, verification of rater judgements in the reading/speaking test was carried out with an interrater reliability study. The following chart shows the high reliability of the posttest scores between the two raters:

	Rater 1	Rater 2
Rater 1	1	
Rater 2	0.98	1

The Questionnaire

The results of the questionnaire are as follows:

1. In terms of our phonics study, put \bigcirc on one of the following statements:

 Phonics study has been useful to me. 	(146/179	81.6%)
 Phonics study has not been useful to me. 	(0/179	0.0%)
 I have no special impression about phonics study. 	(33/179	18.4%)

- 2. If any of the following statements apply to you with regard to phonics study, put as many Os as you like:
 - •I am able to read words better than before. (166/179) 92.7%)
 - •I am able to read English textbooks better than before. (137/179 76.5%)

•I am able to remember how to read the words who	se	
pronunciation I have forgotten.	(83/179	46.4%)
•I am even able to read words which I have not		
yet learned, by guesswork.	(139/179	77.7%)
•I am even able to read sentences which I have		
not yet learned, by guesswork.	(87/179	48.6%)
•I have developed an interest or desire to		
read words which I have not yet learned.	(94/179	52.5%)
•I have developed an interest or desire to read		
sentences which I have not yet learned.	(78/179	43.6%)
•I now understand how to pronounce words.	(126/179	70.4%)
•I now understand how to make English sounds.	(71/179	39.7%)
 My English pronunciation has improved. 	(84/179)	46.9%)
 Phonics study has been useful when writing 		
words.	(104/179)	58.1%)
•I am able to memorize the spellings of words		
better than before.	(89/179)	49.7%)
•I am able to see the spellings of words in		
my mind's-eye when I hear the sounds of		
the words.	(48/179	26.8%)

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3. Write any opinions or comments you have on your phonics study (sample responses translated from Japanese by this author):

In the beginning, I did not know how to read English at all, but through phonics study, I gradually became able to read words and sentences for myself. This made me very happy and now I love English!

Thanks to phonics, I can now read English words by using "English readings" though I relied only on "rômaji¹² readings" before. Phonics is useful not only when reading the English textbook, but also reading English in daily life.

Phonics study made my English pronunciation far better than before, and now I have a strong desire to read unknown words. I think this is really a great thing!

Takeda—Application of Phonics

I was very surprised that the speed of memorizing the spellings of words was completely different between having learned phonics and not having learned it. I was lucky because I could study phonics!

The results of this questionnaire indicate that virtually all of the students felt that phonics instruction had been useful to them and that their reading abilities had improved. In addition, almost all the students wrote positive and constructive comments on their phonics study.

Conclusion

The purpose of this research was to investigate whether or not phonics instruction improves students' reading ability and enhances their desire to learn English. Through this investigation, it has been demonstrated that appropriate phonics instruction has a measurable effect on the improvement of students' reading ability and is also responsible for the cultivation of positive and enthusiastic attitudes towards English studies. In addition, the first 10-minute period of phonics instruction in every class for half a year neither delayed the progression of the regular English curriculum, nor was it a burden to the students. This study strongly indicates that phonics instruction can be a useful and effective teaching tool when used in conjunction with *Mombushô's* curriculum in regular

English classes in Japanese junior high school.

At present, unfortunately, most Japanese students have difficulty maintaining their desire to learn English which is taught to them through the yakudoku method because they have to spend much of their energy and time translating English passages into Japanese and memorizing a great number of vocabulary items by rote. In addition, their katakana pronunciation discourages them from reading aloud or speaking English in public. English has long been a "memory subject" in Japan which requires strenuous effort, perseverance, and patience. English is often described as a subject which saps students' energies and motivation in Japan, and this stigma must be eliminated as soon as possible. As we have now entered the 21st century, the Japanese government has declared that communicative competence in English is extremely important for the future of Japan. They say the problem is where and how it should be placed in the present education system. However, the present system of English L2 education in Japan has many problems which must be solved first. One of the most crucial problems is in how English is learned at early levels of instruction; i.e., Japanese students learn English through Japanese, or by replacing it with Japanese, which is the typical feature of English learning through the yakudoku method. This way of learning English has delayed the progress of English education in Japan for many years, and it will be impossible to improve English L2 teaching in this country without changing this method and its concomitant attitudes towards learning English.

The key to solving this problem is phonics instruction. When students are able to read and write English letters and spellings directly, *katakana* will no longer be necessary; i.e., they will be able to read English, not with *katakana* pronunciation, but with a correct English pronunciation, and will be able to write English directly in the target language without using *katakana* letters. Eliminating *katakana* will thus bring new attitudes of trying to understand foreign languages as they are. It is imperative to read English with English sounds and to understand the language directly without translating it into Japanese when reading or listening to English. The habit of translating English into Japanese prevents smooth functioning in all language skills (i.e., reading, writing, listening, and speaking) because the translation takes time and stops the natural flow of communication. The implementation of phonics instruction in Japanese junior high schools will have a beneficial effect in changing the goals of learning English to a means of acquiring communicative skills rather than extracting knowledge from foreign culture which has long been the aim of *yakudoku* instruction.

Therefore, discarding the yakudoku method, which is the main tradition of English L2 teaching in Japan, will be the beginning of real English language learning in the pursuit of communicative competence. Phonics can save millions of Japanese students who lose their desire to study English at the beginning stage. They can overcome the

most serious obstacles in the introductory period of English learning; i.e., being unable to read and write English because of an inability to connect sounds with letters (Inagaki, 1988; Nakajima, 1995; Teshima, 1995). Phonics instruction should be made compulsory at the introductory stage in English L2 teaching in Japan so that all first year students can attain these skills. Therefore, all English teachers of junior high schools should acquire the ability to teach phonics. In order to realize this goal, a teaching methodology for phonics should be implemented in the teacher training curriculum at university.

Though this study clearly shows the benefits of phonics instruction, because of the small size of the control group and this author's participation in the experiment, this study should be seen only as a first step in examining the effectiveness of phonics in junior high school classrooms. Using this model, further studies should be carried out on a larger scale and in a more controlled environment. It is hoped that this study can contribute to more comprehensive studies of phonics in the future.

Notes

- ¹ For example, the results of TOEFL from 1997 to 1998 show Japan ranking 205th out of 218 nations in the world and 24th among the 26 Asian nations (Suzuki, 1999, p. 2).
- ² Hino states that *yakudoku* is a deeply rooted sociolinguistic tradition in Japan, which dates back over a thousand years to when the Japanese started to study Chinese (1999, p. 45).
- ³English instruction starts in the first year of junior high school in Japan.
- ⁴Though phonics is commonly used as a teaching method in America, it is important to keep in mind the continuing debate between advocates of phonics and the "whole language" method. Whole language is not an instructional program, but rather a philosophy which aims to empower children as they learn to read. The concept is vague and assumes that phonics rules will be picked up by students in the course of reading stories. This "reading wars" debate has plagued American schools for decades, and according to Heilman (1998, pp. 20-21), it is a major hurdle in the fight against illiteracy in the United States.
- ⁵ The author of this paper was an English teacher at Yodo Junior High School and a Master's Degree candidate at Ehime University during this empirical study.
- ⁶ The rules used in this research can be defined as follows:
 - •The "sound alphabet": the most representative or the most commonly used sound of

each letter of the alphabet (i.e., $/ae//b//k//d//e//f//g//h//i//d_3//k//l//m//n//$ $<math>/\supset//p//k//r//s//t//A//v//w//ks//j//z/$), by which words can basically be read. Matsuka also calls this the "phonics alphabet."

•Magic E": when a word ends with the letter "e," the vowel just before it is read with its alphabet name and the letter "e" at the end is soundless.

•"Polite vowels": when two vowels sit together, the first one is read with its alphabet name and the second one is soundless.

•"Letter combinations": a combination of two or three letters representing a specific sound as a whole (e.g., ph, sh, th, au, aw, oo, ar, or, air, etc.).

⁷ This analysis was based on the vocabulary items in One World English Course 1~3 (Sasaki, 1993), one of five major English textbooks in Japan, and all 1007 words, except for proper nouns and abbreviations that 1st, 2nd, and 3rd year students study, were analyzed to determine which phonics rules were applied most frequently in textbooks in order to assess which rules should be taught in class. Matsuka's phonics rules and method (1981, 1993) are adopted in this study because she is the leading expert on phonics research and its practice in Japan, and her research institute, Matsuka Phonics Institute, has achieved credible results and has published numerous phonics teaching materials.

⁸ Relatively unknown, though authentic, English words were chosen for the test, eliminating the chance of students' prior knowledge influencing their scores.

- 9 Phonics provides students with the techniques and motivation for "attacking" and deciphering words they are not familiar with, which is called the skill of "word attack." ¹⁰According to the Longman dictionary, the definition of this word is "a dull sound as of something bursting" (1995, p. 1208).
- ¹¹In this test, students who received a B were regarded as being able to read the word because they understood the phonics rule which was applied to the key part of the word. Then, the number of A's and B's was counted as a score for each student.
 ¹²Rômaji is Japanese written in Roman letters, and is different from English orthogonal provides and provide to the student.

orthography and pronunciation.

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Appendix 1 Sample Pages from the Phonics Textbooks



1		の	アル	ィフ	了 ^	ベッ	F
				Sound Aip			
	と『音 Flatai	』(音のア	ルファベ: odas file "ha	ット)を覚 nues" of the:	【えましょ	э .	7ァベット) pulær alphatext)
	a	b	c	d	e	f	g
	h	i	j	k	1	m	n
	0	р	q	r	S	t	u
	V	W	X	у	Z		
	★ 母音(の文字(5 	つ) (ま、 are the fiyre や	weis?			
	() ()	() () ()
なお、()と()もよく母音の役易をします。 Besides, () and () often pisy a role as vowels, too.							
<u> </u>	-			•1-			

k 以下の単語(みましょう)		wing words by (ァペット)をつ connecting the sound dying the sound alph	sof
ant (& 9)	bat (=>69)	bus and	cat ®	CUT (1978)
dad (\$\$+6)	dog ⇔	don ann	end (#7)	fan (354)
fat umm	fox ®	gas (1999)	god (#)	gun w
ham	hip 🚥	hit me	ink (129)	jet
kid (740)	lip	man (JWD	nut (木の実)	pal um
pet (Kyb)	pig	rat	SU11 (末間)	tax (tax)
tip (Fym	top (as)	yen	WAX (59)	zen (#)
film (7 ~ 144)	golf	1	nand (#)	milk
pond w	pulp		slip (#8)	vest (Fav+)
stamp (07)		trunk (+7>9) -2-		zigzag (9999)

Takeda—Application of Phonics





aim bail bait brain claim faint gain grain jail Kaiko lain maid mail main nail pail pain rail rain sail vain wait snail Spain stain train Jamaica afraid

bay day ray bray dray fray gray gay hay jay lay clay slay play pray pay May nay say spray stay tray stray way sway Sunday

bee fee Lee see beef beet beep coffee deed deep feed feel heel feet flee free keen green greet peel peep seed sleep steep sweep sweet tree weed week weep

cat meat tea team bead beak beam bean beat beast clean cream dream heat Jean lead leaf leak lean meal mean neat pea peak read sea seal seam seat speak

bow low mow row sow tow bowl blow flow slow crow grow snow know follow hollow pillow yellow narrow sparrow window

- 5 -



unce punch pinch bench chin chip chop chess chest chill chase chime choke chain cheek cheap beach peach reach teach ketchup chocolate chimpanzee

fish she ash cash dash dish mash rash rush wish ship shop shut shot shoot sham shame shape shell shush brush blush crash crush English

mank bath path math moth both Beth broth cloth month tooth teeth thatch theft theme thin thing think three throw thump

is that than the thee them then there their they thy father mother brother these those thine bathe clothe breathe soothe thou though

ros lock luck lack lick rick back cock dock duck kick neck socks black clock rocket stock truck ticket check chicken cricket mackintosh

whom whose what when where which why whack whale wheel wheat whim while whine white whole whisky whether whistle

pamphlet telephone phraze photo photographer pamphlet telephone phraze photo photographer phenomenon philosophy Philip Philippine Philadelphia

ball call fall hall mall pall tall wall baseball basketball softball small stall soft malt also alter almost always already Albright almighty altogether

basek cook gook hook kook look mook nook rook took foot good hood wood woof wool oops brook crook shook stood

boo loo moo woo zoo cool fool food hoop loop moon noon pool room root loot soon tool toot loom broom poon spoon tooth cocoon platoon shampoo

house louse mouse mouth south blouse ouch out bout about doubt trout count foul pouch loud cloud bound found hound pound sound round ground noun announce denounce pronounce mountain thousand

cow bow vow how now wow down gown town owl brown crown clown drown tower power powder flower bowwow kowtow chow-chow

news mew few Jew Kew NewYork NewZealand news knew blew flew crew screw drew Andrew grew pew phew threw chew chewing gum automatic autumn because daub daughter pause sauce sausage astronaut Santa Claus

※ 以下は、すべて【r のついた母音】です! The following are all "vowels with the letter r"!

card cart part apart depart chart smart start star guitar Tarzan bar jar far farm arm army art ark bark dark lark park mark market March hard yard garden

for form fork cork pork port sport passport sort short stork storm horse north forth force forty porch torch

whild work worker word worm worry worse worst worth motor mirror sensor actor doctor sailor emperor visitor junior senior elevator escalator

herd per perm perch person Harper nerve serve server germ Germany Berlin berg Bert Ernie fern jerk term river tiger butter better letter summer soccer teacher sister brother father mother yesterday

stir skirt shirt birl birch birthday chirp circus circle

Thusday fur further burst burn turn church curve curtain curl hurl hurt hurdle nurse purse purple turtle Saturn surfing murk murder murmur

chair air airport fair hair pair laird Blair Clair flair glair stair upstairs affair repair airy dairy fairy prairie

1	-,-	-8- 1	
	, , , , , , , , , , , , , , , , , , ,		