

# Collocation Research Based on Corpora Collected from Secondary School Textbooks in Japan and in the UK

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## Abstract

The aim of this paper is to analyze verb-noun English collocations extracted from a history textbook for secondary school pupils used in the UK and from English textbooks for 10<sup>th</sup> graders in Japan. To conduct the research on collocation, the following research questions are set up: (a) What kind of collocations are used in the history textbook? (b) How many collocations are used in the history textbook? (c) How often do the same collocations appear in the textbook? and (d) What are differences between collocations in the history textbook in the UK and those in English textbooks in Japan?

The main finding shows that collocations are disregarded in both textbooks in terms of the kinds and the number of collocations. It may be natural that in history textbooks collocations are not so often used to explain various events in world history. However, English textbooks should much more pay attention to usage of collocations to cultivate learners' better command of English. In conclusion, English textbooks for 10<sup>th</sup> graders in Japan should include more variety of collocations to help the learners to develop larger vocabulary as the importance of collocation teaching for learners has been emphasized for the last two decades.

**Keywords:** corpus, collocation, second language acquisition (SLA)

## 1. Introduction

For the last two decades English collocation has been studied extensively from the pragmatic standpoint on the recognition that its knowledge is essential for advanced level of communication in English. Various approaches of acquiring it are suggested for non-native

speakers of English whose own languages are not direct-translationally equivalent to many English collocations. I argue that English collocations should be explicitly learned to develop their English communicative ability.

While a lot of collocation researches are carried out in other countries to date, English collocations themselves tend to be disregarded in Japan. This is proved by the description of collocation in the government guidelines for teaching in the Ministry of Education, Culture, Sports, Science and Technology (MEXT, 2003): “Basic collocations should be chosen for instruction.” This vague description never explains which collocations are basic and how many collocations should be selected. Accordingly, English textbooks for Japanese learners are compiled by those who do not have clear concept and consensus on what collocations to include.

Collocation research conducted by Koya (2004a) also shows that the textbook writers disregard the collocation learning of Japanese learners of English. For example, four secondary school English textbooks on the same level pay little attention to collocations, do not refer to the collocations which are frequently used in *Bank of English*, and treat each collocation only once or twice (Koya, 2004a). They do not use collocations repeatedly to help learners to build-up their collocational knowledge. Koya’s other collocation researches<sup>1</sup> also reveal that textbook writers neglect that learners should develop their collocational ability.

However, the question aroused after the research was what kind of collocations and how many will appear in textbooks on other subjects such as history and mathematics used to develop pupils’ basic knowledge. It is because textbooks which do not aim at pupils’ English proficiency may show more natural usage of collocations reflecting daily conversations of native speakers of English, while English textbooks are generally content-based and collocations, which help pupils facilitate their fluency of English conversation are subordinated to the content of English textbooks.

Therefore, this paper will extract collocations from a history textbook<sup>2</sup> for secondary school pupils used in the UK and compare those collocations with those included in secondary school English textbooks in Japan (Koya, 2004a). The finding is expected to help teaching collocations more effectively in English classes at secondary schools and also to help English textbook writers to compile English textbooks as materials to compensate current secondary school English textbooks in Japan.

## 2. Methodologies

### 2.1 Research questions

This research focuses on the following four questions:

1. What kind of collocations are used in the history textbook?
2. How many collocations are used in the history textbook?
3. How often do the same collocations appear in the textbook?
4. What are differences between collocations in the history textbook in the UK and those in English textbooks in Japan?

### 2.2 Materials

As different history textbooks seem to be used at different schools in the UK, a history textbook in this research, *Contrasts and Connections* is selected in terms of the following two points: one is that it is the bestseller in the UK and the other is that it is compiled by the Schools Council as a project of National Curriculum in the UK. This book covers The Roman Empire, Medieval Realms and Islamic Civilizations, from 500 BC to AD 1500 and reconsiders the nature of history and its relevance in secondary schools.

English I textbooks for the 10<sup>th</sup> graders are used in order to answer the research question 4. They are selected in that the majority of 10<sup>th</sup> graders are supposed to use them at schools and that English knowledge acquired with these textbooks will become the basis for them. Four textbooks are selected in that they are the bestsellers and are used by many students at schools “Nikkyohan Co, Ltd.,” data 1999: *Milestone English course I*, *One World English course I*, *Sunshine English course I* and *Unicorn English course I*. They are all revised in 2003, according to the new government guideline for teaching in MEXT administered in 2003.

Table 1. Total tokens and types in a history textbook in the UK and English I textbooks in Japan

|                 | history textbook in the UK | English I textbooks in Japan |             |            |             |
|-----------------|----------------------------|------------------------------|-------------|------------|-------------|
|                 | Contrasts & Connections    | Unicorn I                    | Milestone I | Sunshine I | One World I |
| Total Tokens    | 70839                      | 7910                         | 7144        | 5978       | 6290        |
| Total Types     | 6693                       | 1627                         | 1509        | 1394       | 1399        |
| Lexical Density | 9.45                       | 20.57                        | 21.12       | 23.32      | 22.24       |

Table 1 shows total types, total tokens and lexical density of all the textbooks used in this research. While the history book has almost ten times as many vocabulary items in all as

English I textbooks, number of separate vocabulary items in the history book is four to five times more than them. In other words, lexical density in the history book is very low, compared with those in English I textbooks and events of world history are expressed with limited unique words oriented in them such as *crusade* and *castle*.

### 2.3 Choices of collocations

Among variable word combinations, only verb-noun collocations were targeted in this research because of the most frequently used combinations. In order to specify collocations which are used in the history book, the following steps were taken. Firstly, all the nouns which appear in the target history book are extracted by means of *World Smith*, a KWIC concordance soft program. Secondly, the nouns are arranged in descending order from the highest frequency nouns to the lowest frequency ones and nouns which appear more than six times are targeted.<sup>3</sup> By doing so, 515 nouns were found. Thirdly, using these nouns as nodes, the collocates (verbs) are selected with reference to *COBUILD English Collocations on CD-ROM*, *Oxford Collocations Dictionary for Students of English* (2002) and *the BBI Dictionary of English Word Combinations* (1997).<sup>4</sup> Targeted are 170 noun-verb combinations considered as collocations among these three dictionaries. They are selected to answer the research questions 1 to 3 (See Table 2).

In order to answer the research question 4, collocations are selected in the following steps from the above mentioned four English I textbooks. Firstly, nouns and transitive verbs which appear in the target textbooks are extracted by means of KWIC concordance. Secondly, considering them as nodes, the collocates are selected in *COBUILD English Collocations on CD-ROM*. By doing so, 204 collocations were found. Thirdly, checking 204 collocations by *the BBI Dictionary of English Word Combinations* (1997) and *Oxford Collocations Dictionary for Students of English* (2002), 107 collocations were selected. Finally, 13 collocations listed as new and important word combinations in word lists of the respective textbooks were added to the 107 collocations. The total of 120 collocations were targeted in this research (See Table 3).

Table 2. Selected collocations extracted from a history textbook

| F.N | Nodes (N) | Collocates (V) | F.N | Nodes (N) | Collocates (V)     | F.N | Nodes (N) | Collocates (V)     | F.N | Nodes (N) | Collocates (V)     |
|-----|-----------|----------------|-----|-----------|--------------------|-----|-----------|--------------------|-----|-----------|--------------------|
| 1   | 135       | time spend     | 43  | 21        | throne ascend      | 85  | 11        | threat pose        | 127 | 8         | race run           |
| 2   | 135       | time waste     | 44  | 20        | trial stand        | 86  | 10        | bath take          | 128 | 8         | race win           |
| 3   | 135       | time take      | 45  | 18        | condition improve  | 87  | 10        | birth give         | 129 | 8         | spice add          |
| 4   | 95        | evidence find  | 46  | 18        | way find           | 88  | 10        | bridge build       | 130 | 7         | advance make       |
| 5   | 95        | evidence give  | 47  | 17        | message get        | 89  | 10        | crime commit       | 131 | 7         | advantage take     |
| 6   | 77        | part take      | 48  | 17        | message send       | 90  | 10        | eye catch          | 132 | 7         | arrow shoot        |
| 7   | 77        | part play      | 49  | 17        | message leave      | 91  | 10        | eye turn           | 133 | 7         | care take          |
| 8   | 76        | book publish   | 50  | 17        | message deliver    | 92  | 10        | game play          | 134 | 7         | contact make       |
| 9   | 66        | place take     | 51  | 16        | friend make        | 93  | 10        | game win           | 135 | 7         | copy make          |
| 10  | 60        | money make     | 52  | 15        | face make          | 94  | 10        | mark make          | 136 | 7         | document sign      |
| 11  | 60        | money raise    | 53  | 15        | language speak     | 95  | 10        | mark leave         | 137 | 7         | door open          |
| 12  | 60        | money spend    | 54  | 15        | language use       | 96  | 10        | payment make       | 138 | 7         | door close         |
| 13  | 51        | tax pay        | 55  | 15        | language learn     | 97  | 10        | payment receive    | 139 | 7         | door lock          |
| 14  | 51        | tax raise      | 56  | 15        | medicine take      | 98  | 10        | success achieve    | 140 | 7         | hole make          |
| 15  | 51        | tax cut        | 57  | 14        | capture evade      | 99  | 10        | success make       | 141 | 7         | hole drill         |
| 16  | 47        | list make      | 58  | 14        | difference resolve | 100 | 10        | victory win        | 142 | 7         | judgement exercise |
| 17  | 45        | crusade launch | 59  | 14        | difference make    | 101 | 9         | action take        | 143 | 7         | judgement make     |
| 18  | 43        | job get        | 60  | 14        | difference tell    | 102 | 9         | anger express      | 144 | 7         | judgement pass     |
| 19  | 42        | law pass       | 61  | 13        | room make          | 103 | 9         | boat take          | 145 | 7         | meeting hold       |
| 20  | 42        | picture get    | 62  | 13        | sins commit        | 104 | 9         | coin toss          | 146 | 7         | profit make        |
| 21  | 42        | picture paint  | 63  | 13        | sins forgive       | 105 | 9         | matter discuss     | 147 | 7         | sentence impose    |
| 22  | 42        | picture take   | 64  | 12        | impression give    | 106 | 9         | tactics use        | 148 | 7         | sentence pass      |
| 23  | 41        | castle build   | 65  | 12        | impression make    | 107 | 9         | tactics employ     | 149 | 7         | skill need         |
| 24  | 39        | rule make      | 66  | 12        | impression get     | 108 | 8         | advice give        | 150 | 7         | skill develop      |
| 25  | 38        | mosque build   | 67  | 12        | impression create  | 109 | 8         | advice offer       | 151 | 7         | skill learn        |
| 26  | 38        | record set     | 68  | 12        | meal eat           | 110 | 8         | advice take        | 152 | 7         | solution find      |
| 27  | 37        | head shake     | 69  | 12        | meal make          | 111 | 8         | attitude take      | 153 | 7         | walk take          |
| 28  | 37        | head turn      | 70  | 12        | position take      | 112 | 8         | beer drink         | 154 | 6         | clock put          |
| 29  | 32        | stage set      | 71  | 12        | reign end          | 113 | 8         | charge take        | 155 | 6         | course take        |
| 30  | 32        | stage reach    | 72  | 12        | rent pay           | 114 | 8         | charge drop        | 156 | 6         | decision take      |
| 31  | 31        | attack launch  | 73  | 12        | wood cut           | 115 | 8         | charge deny        | 157 | 6         | decision make      |
| 32  | 30        | journey make   | 74  | 11        | effect take        | 116 | 8         | charge face        | 158 | 6         | dough make         |
| 33  | 29        | answer give    | 75  | 11        | gates lock         | 117 | 8         | duty do            | 159 | 6         | faith lose         |
| 34  | 29        | answer get     | 76  | 11        | influence use      | 118 | 8         | love make          | 160 | 6         | faith put          |
| 35  | 26        | example set    | 77  | 11        | influence exert    | 119 | 8         | loyalty show       | 161 | 6         | faith keep         |
| 36  | 26        | view take      | 78  | 11        | letter send        | 120 | 8         | mountains climb    | 162 | 6         | mention make       |
| 37  | 25        | hand take      | 79  | 11        | letter write       | 121 | 8         | opinions express   | 163 | 6         | mercy show         |
| 38  | 25        | map draw       | 80  | 11        | letter receive     | 122 | 8         | permission get     | 164 | 6         | mouth open         |
| 39  | 24        | method use     | 81  | 11        | letter get         | 123 | 8         | property buy       | 165 | 6         | possession take    |
| 40  | 24        | statement make | 82  | 11        | scene set          | 124 | 8         | protection provide | 166 | 6         | riot run           |
| 41  | 22        | business do    | 83  | 11        | school leave       | 125 | 8         | protection give    | 167 | 6         | sacrifice make     |
| 42  | 21        | night spend    | 84  | 11        | statue erect       | 126 | 8         | protection offer   | 168 | 6         | stock buy          |
|     |           |                |     |           |                    |     |           |                    | 169 | 6         | subject change     |
|     |           |                |     |           |                    |     |           |                    | 170 | 6         | tales tell         |

Table 3. Selected collocations extracted from English I textbooks

|    |         |          |    |         |             |    |          |           |     |        |              |
|----|---------|----------|----|---------|-------------|----|----------|-----------|-----|--------|--------------|
| 1  | action  | take     | 31 | example | give        | 61 | message  | leave     | 91  | take   | time         |
| 2  | answer  | give     | 32 | face    | problem     | 62 | message  | deliver   | 92  | take   | care         |
| 3  | answer  | get      | 33 | face    | make        | 63 | message  | receive   | 93  | take   | look         |
| 4  | ask     | question | 34 | find    | way         | 64 | money    | spend     | 94  | take   | advantage    |
| 5  | break   | make     | 35 | follow  | path        | 65 | money    | raise     | 95  | take   | account      |
| 6  | break   | take     | 36 | get     | rid         | 66 | open     | door      | 96  | talent | show         |
| 7  | break   | deadlock | 37 | give    | advice      | 67 | open     | eye       | 97  | train  | take         |
| 8  | build   | house    | 38 | give    | way         | 68 | part     | take      | 98  | turn   | take         |
| 9  | buy     | share    | 39 | give    | information | 69 | part     | play      | 99  | turn   | attention    |
| 10 | buy     | house    | 40 | goal    | achieve     | 70 | place    | take      | 100 | walk   | take         |
| 11 | buy     | stock    | 41 | job     | get         | 71 | play     | role      | 101 | win    | election     |
| 12 | carry   | weight   | 42 | job     | take        | 72 | pleasure | take      | 102 | win    | title        |
| 13 | catch   | fish     | 43 | job     | find        | 73 | point    | make      | 103 | win    | championship |
| 14 | catch   | eye      | 44 | life    | make        | 74 | point    | see       | 104 | win    | game         |
| 15 | catch   | glimpse  | 45 | light   | shed        | 75 | point    | reach     | 105 | win    | race         |
| 16 | catch   | train    | 46 | line    | draw        | 76 | produce  | result    | 106 | make   | mistake      |
| 17 | catch   | bus      | 47 | lose    | weight      | 77 | read     | paper     | 107 | make   | progress     |
| 18 | catch   | breath   | 48 | lose    | money       | 78 | receive  | treatment | 108 | make   | friends      |
| 19 | chance  | give     | 49 | lose    | time        | 79 | receive  | support   | 109 | take   | pride        |
| 20 | chance  | take     | 50 | lose    | sight       | 80 | record   | set       | 110 | make   | call         |
| 21 | change  | make     | 51 | love    | make        | 81 | research | do        | 111 | make   | laws         |
| 22 | change  | name     | 52 | make    | difference  | 82 | seat     | take      | 112 | lose   | temper       |
| 23 | check   | make     | 53 | make    | money       | 83 | seat     | lose      | 113 | give   | speech       |
| 24 | close   | eye      | 54 | make    | sense       | 84 | seat     | win       | 114 | make   | speech       |
| 25 | decide  | fate     | 55 | make    | way         | 85 | send     | message   | 115 | make   | joke         |
| 26 | discuss | issue    | 56 | make    | decision    | 86 | send     | letter    | 116 | make   | reservation  |
| 27 | discuss | matter   | 57 | make    | use         | 87 | send     | postcard  | 117 | spend  | time         |
| 28 | eat     | food     | 58 | meet    | standard    | 88 | step     | take      | 118 | take   | picture      |
| 29 | example | set      | 59 | meet    | requirement | 89 | stop     | put       | 119 | take   | test         |
| 30 | example | follow   | 60 | message | get         | 90 | story    | tell      | 120 | take   | trip         |

106-120 collocations clearly mentioned in respective textbooks

## 2.4 Procedure

The following procedure was adopted:

1. Textbooks were computerized to facilitate this quantitative research.
2. The frequency of use of the target collocations and the context in each textbook were examined by means of *TXTANA*, a concordance software program.

## 3. Results

### 3.1 The features of collocations targeted in the history textbook

In order to answer research questions 1, 2 and 3, the frequency of the use of target collocations is checked by means of *TXTANA*, a concordance software program. Firstly, Table 4 shows two main features in terms of types of collocations. One is that while collocations in the targeted history textbook are generally familiar ones in the present daily life, a few are related to the historical events. For example, *build castle*, *launch crusade*, *build mosque*, *commit sins*, *win victory*, *use tactics* and *run riot* are unique for history.

The other is that this textbook has 63 types, almost one third of 170 collocations which are almost one third of collocations, indicating that world events are not necessarily described with collocational expressions.

Table 4 also shows the number and the frequency of target collocations in the history textbook. 63 (37 %) of 170 target collocations are used in the textbooks. This number is less than it is expected. Moreover, the total number of words in this text is 144, which means the same collocation is not repeated so often. In fact, more than half of number of separate collocations are repeated only once and only eight collocations appear more than five times: *pay tax*, *make list*, *take attitude*, *play part*, *make money*, *make journey*, *build castle* and *write letter*. Findings of the experiments by Crothers and Suppes (1967), Kachroo (1962), Salling (1959) show that words repeated more than five times are acquired by almost all the informants but more than half of words repeated only once or twice are not learned. It is obvious that this history textbook does not intend to teach collocations.

Thus, in the target history textbook, the use of collocations with which events in the world history are presented is very limited and taken no account of. This result may be natural because targeted is a history textbook whose main aim is to describe and explain historical events.

Table 4. Frequency of Collocations appearing in a history book (in descending order)

| F.C | F.N | Nodes (N)  | Collocates (V) | F.C | F.N | Nodes (N)  | Collocates (V) | F.C | F.N | Nodes (N)  | Collocates (V) |
|-----|-----|------------|----------------|-----|-----|------------|----------------|-----|-----|------------|----------------|
| 15  | 51  | tax        | pay            | 1   | 135 | time       | waste          | 1   | 8   | advice     | give           |
| 8   | 47  | list       | make           | 1   | 135 | time       | take           | 1   | 8   | advice     | take           |
| 8   | 8   | attitude   | take           | 1   | 95  | evidence   | give           | 1   | 8   | opinions   | express        |
| 6   | 77  | part       | play           | 1   | 77  | part       | take           | 1   | 7   | advance    | make           |
| 6   | 60  | money      | make           | 1   | 45  | crusade    | launch         | 1   | 7   | judgement  | make           |
| 6   | 30  | journey    | make           | 1   | 43  | job        | get            | 1   | 7   | meeting    | hold           |
| 5   | 41  | castle     | build          | 1   | 42  | law        | pass           | 1   | 7   | skill      | learn          |
| 5   | 11  | letter     | write          | 1   | 42  | picture    | paint          | 1   | 6   | possession | take           |
| 4   | 135 | time       | spend          | 1   | 39  | rule       | make           | 1   | 6   | riot       | run            |
| 4   | 10  | birth      | give           | 1   | 38  | mosque     | build          |     |     |            |                |
| 3   | 95  | evidence   | find           | 1   | 29  | answer     | give           |     |     |            |                |
| 3   | 66  | place      | take           | 1   | 26  | view       | take           |     |     |            |                |
| 3   | 60  | money      | raise          | 1   | 24  | statement  | make           |     |     |            |                |
| 3   | 24  | method     | use            | 1   | 22  | business   | do             |     |     |            |                |
| 3   | 18  | way        | find           | 1   | 17  | message    | get            |     |     |            |                |
| 3   | 12  | rent       | pay            | 1   | 16  | friend     | make           |     |     |            |                |
| 3   | 6   | decision   | make           | 1   | 13  | sins       | commit         |     |     |            |                |
| 2   | 25  | map        | draw           | 1   | 12  | impression | make           |     |     |            |                |
| 2   | 21  | night      | spend          | 1   | 12  | meal       | eat            |     |     |            |                |
| 2   | 17  | message    | send           | 1   | 12  | wood       | cut            |     |     |            |                |
| 2   | 15  | language   | speak          | 1   | 11  | gates      | lock           |     |     |            |                |
| 2   | 15  | language   | use            | 1   | 10  | crime      | commit         |     |     |            |                |
| 2   | 12  | impression | give           | 1   | 10  | eye        | turn           |     |     |            |                |
| 2   | 11  | threat     | pose           | 1   | 10  | game       | play           |     |     |            |                |
| 2   | 10  | payment    | make           | 1   | 10  | victory    | win            |     |     |            |                |
| 2   | 8   | beer       | drink          | 1   | 9   | boat       | take           |     |     |            |                |
| 2   | 7   | care       | take           | 1   | 9   | tactics    | use            |     |     |            |                |

Tokens of collocations = 144  
Types of collocations = 63

F.C = Frequency of collocations  
F.N = Frequency of nouns  
Nodes (N) = Nodes (Nouns)  
Collocates (V) = Collocates (Verbs)

### 3.2 Collocations in the history textbook in the UK versus in English textbooks in Japan

Table 5 shows which collocations and how many appear among those selected from English I textbooks for 10<sup>th</sup> graders in the targeted history textbook in the UK and the English I textbooks in Japan. While the contents and total tokens and types of words in both textbooks are completely different, surprisingly 18 of the 70 collocations are the same in both textbooks, which is almost half of total types of collocations in them.

Types of collocations in the history textbook are slightly less than those in English I textbooks. English I textbooks are more than those in the history textbook. It is because words such as *bus*, *share*, *stock*, *postcard* and *call* which comprise collocations did not exist in those days. It is natural that contents of the textbook control the use of words and collocations.

As a whole, collocations are disregarded in both textbooks in terms of the kinds and the number of collocations. History textbooks may have no problem for the fact that collocations are not so often used to explain historical happenings, but English textbooks should much more pay attention to usage of collocation to cultivate learners' better command of English.

Table 5. Frequency of collocations selected from English I Textbooks in Japan

|    | Collocations |             | F.C in H.T | F.C in E.T |     | Collocations |              | F.C in H.T | F.C in E.T |
|----|--------------|-------------|------------|------------|-----|--------------|--------------|------------|------------|
| 1  | action       | take        | 0          | 2          | 61  | message      | leave        | 0          | 0          |
| 2  | answer       | give        | 1          | 2          | 62  | message      | deliver      | 0          | 0          |
| 3  | answer       | get         | 0          | 0          | 63  | message      | receive      | 0          | 0          |
| 4  | ask          | question    | 0          | 2          | 64  | money        | spend        | 0          | 0          |
| 5  | break        | make        | 0          | 0          | 65  | money        | raise        | 3          | 2          |
| 6  | break        | take        | 0          | 0          | 66  | open         | door         | 0          | 0          |
| 7  | break        | deadlock    | 0          | 0          | 67  | open         | eye          | 0          | 1          |
| 8  | build        | house       | 0          | 0          | 68  | part         | take         | 1          | 1          |
| 9  | buy          | share       | 0          | 0          | 69  | part         | play         | 6          | 0          |
| 10 | buy          | house       | 0          | 0          | 70  | place        | take         | 3          | 1          |
| 11 | buy          | stock       | 0          | 0          | 71  | play         | role         | 2          | 1          |
| 12 | carry        | weight      | 0          | 0          | 72  | pleasure     | take         | 0          | 0          |
| 13 | catch        | fish        | 0          | 0          | 73  | point        | make         | 0          | 1          |
| 14 | catch        | eye         | 0          | 0          | 74  | point        | see          | 0          | 0          |
| 15 | catch        | glimpse     | 0          | 0          | 75  | point        | reach        | 0          | 0          |
| 16 | catch        | train       | 0          | 1          | 76  | produce      | result       | 0          | 0          |
| 17 | catch        | bus         | 0          | 0          | 77  | read         | paper        | 0          | 0          |
| 18 | catch        | breath      | 0          | 0          | 78  | receive      | treatment    | 0          | 0          |
| 19 | chance       | give        | 0          | 0          | 79  | receive      | support      | 0          | 1          |
| 20 | chance       | take        | 0          | 0          | 80  | record       | set          | 0          | 0          |
| 21 | change       | make        | 1          | 0          | 81  | research     | do           | 0          | 1          |
| 22 | change       | name        | 0          | 1          | 82  | seat         | take         | 1          | 1          |
| 23 | check        | make        | 0          | 0          | 83  | seat         | lose         | 0          | 0          |
| 24 | close        | eye         | 0          | 1          | 84  | seat         | win          | 0          | 0          |
| 25 | decide       | fate        | 0          | 0          | 85  | send         | message      | 2          | 1          |
| 26 | discuss      | issue       | 0          | 0          | 86  | send         | letter       | 0          | 0          |
| 27 | discuss      | matter      | 0          | 0          | 87  | send         | postcard     | 0          | 0          |
| 28 | eat          | food        | 0          | 4          | 88  | step         | take         | 2          | 4          |
| 29 | example      | set         | 0          | 0          | 89  | stop         | put          | 0          | 0          |
| 30 | example      | follow      | 0          | 0          | 90  | story        | tell         | 4          | 0          |
| 31 | example      | give        | 0          | 0          | 91  | take         | time         | 0          | 0          |
| 32 | face         | problem     | 2          | 0          | 92  | take         | care         | 2          | 2          |
| 33 | face         | make        | 0          | 1          | 93  | take         | look         | 0          | 1          |
| 34 | find         | way         | 3          | 2          | 94  | take         | advantage    | 0          | 0          |
| 35 | follow       | path        | 0          | 0          | 95  | take         | account      | 0          | 0          |
| 36 | get          | rid         | 5          | 0          | 96  | talent       | show         | 0          | 0          |
| 37 | give         | advice      | 1          | 0          | 97  | train        | take         | 0          | 1          |
| 38 | give         | way         | 1          | 0          | 98  | turn         | take         | 0          | 0          |
| 39 | give         | information | 2          | 1          | 99  | turn         | attention    | 0          | 0          |
| 40 | goal         | achieve     | 0          | 0          | 100 | walk         | take         | 0          | 0          |
| 41 | job          | get         | 1          | 2          | 101 | win          | election     | 0          | 0          |
| 42 | job          | take        | 0          | 0          | 102 | win          | title        | 0          | 0          |
| 43 | job          | find        | 0          | 0          | 103 | win          | championship | 0          | 0          |
| 44 | life         | make        | 1          | 0          | 104 | win          | game         | 0          | 0          |
| 45 | light        | shed        | 0          | 0          | 105 | win          | race         | 0          | 0          |
| 46 | line         | draw        | 2          | 0          | 106 | make         | mistake      | 2          | 4          |
| 47 | lose         | weight      | 0          | 0          | 107 | make         | progress     | 0          | 0          |
| 48 | lose         | money       | 0          | 0          | 108 | make         | friends      | 1          | 0          |
| 49 | lose         | time        | 0          | 0          | 109 | take         | pride        | 0          | 2          |
| 50 | lose         | sight       | 0          | 2          | 110 | make         | call         | 0          | 2          |
| 51 | love         | make        | 0          | 0          | 111 | make         | laws         | 0          | 1          |
| 52 | make         | difference  | 0          | 0          | 112 | lose         | temper       | 0          | 1          |
| 53 | make         | money       | 6          | 2          | 113 | give         | speech       | 0          | 1          |
| 54 | make         | sense       | 0          | 1          | 114 | make         | speech       | 3          | 4          |
| 55 | make         | way         | 3          | 0          | 115 | make         | joke         | 0          | 1          |
| 56 | make         | decision    | 0          | 1          | 116 | make         | reservation  | 0          | 2          |
| 57 | make         | use         | 1          | 1          | 117 | spend        | time         | 4          | 4          |
| 58 | meet         | standard    | 0          | 0          | 118 | take         | picture      | 0          | 1          |
| 59 | meet         | requirement | 0          | 0          | 119 | take         | test         | 1          | 2          |
| 60 | message      | get         | 1          | 0          | 120 | take         | trip         | 0          | 1          |
|    |              |             |            |            |     |              |              | 68         | 71         |
|    |              |             |            |            |     |              |              | 30         | 43         |

F.C in H.T = Frequency of Collocations in a Historical Textbook in the UK

F.C in E.T = Frequency of Collocations in English Textbooks in Japan



### 3.3 Summary

The results analyzed by the means of *TXANA* can be summarized as follows:

1. On the whole, the targeted history textbook includes such collocations as *play part*, *make money*, and *give birth* which are used in the present daily life.
2. Some unique collocations, *build castle*, *launch crusade*, and *use tactics* related to events in world history can be found in it.
3. Collocations appearing in the textbook are not repeated many times: more than half of collocations used in it are repeated once.
4. The targeted history textbook and the targeted English I textbooks have two similarities: almost the same number of collocations and half of the collocations appearing in them are common.
5. The type of collocations in the history textbook is a half less than that in the English I textbooks. It may be because objects for some words such as *train* and *bus* which comprise target collocations did not exist in those days.

## 4. Conclusion

This research focuses on comparison of the collocations in the history textbooks used in the UK and in English I textbooks for 10<sup>th</sup> graders in Japan. To analyze the history textbooks in the UK in terms of collocations is because a large variety of collocations are expected to be used even in the textbooks of other subjects than English textbooks, reflecting large vocabulary and collocations of native speakers of English in the English speaking country. However, the findings are different from my expectation: limited number and type of collocations. They may be natural because in fact the history textbook is content-oriented and the contents of it seem to dominate words, collocations and expressions.

Compared with collocations in the history textbook which does not focus on expressions, collocations found in English I textbooks for Japanese learners are almost the same in number although they are compiled obviously in order to help the learners of English develop their communication ability. English textbooks should include more variety of collocations to help the learners develop larger vocabulary as Bahns (1993), Gitsaki and Taylor (1999), and Howarth (1998) emphasize the importance of collocation teaching for learners.

## 5. Limitations

This research has the following two limitations:

1. The limited selection of targeted history book in the UK.
2. The limited selection of collocations based on more than six-time frequency of nouns appearing in the history textbook

Considering limitation 1, visiting a website, 'Amazon.UK' was the only way to search which history textbook is a best seller. Based on it, the target textbook was selected. However, the problem is the textbook covers worldwide events only from 500 BC to AD 1500 and to cover events from AD 1500 onward the other two textbooks are said to be needed. It was impossible to treat these three textbooks at the same time in the limited time.

As for limitation 2, nouns appearing in the history textbook are too many to check all the verb-noun combinations in the limited time. In this research, the combinations from the highest frequency nouns to six-time frequency nouns are searched and targeted, but more combinations from five time frequency nouns should remain to be checked.

These limitations should be overcome in the near future.

## 6. Further research

In addition to the further research based on the limitations mentioned in 5, there is one more question which should be clarified in further research.

One is how collocations are treated in English textbooks for nonspecific learners of English? Not only Japanese learners of English but also non native speakers of English in other countries should have difficulty mastering collocations. Mackin (1978) claims that collocations are so numerous that it is difficult for non-native speakers of English to rule out any methodical teaching or acquisition of them and learners can acquire some degree of collocational competence in years of study, reading and observation of the language.

## Notes

1. Koya conducted the other two kinds of corpus-based collocation research: comparison of verb-noun collocations between six English I textbooks aiming at 10<sup>th</sup> graders who have different English proficiency levels (2003) and between revised English I textbooks and former English I textbooks (2004b).

2. In this research a history textbook is selected among various subject textbooks, because it treats historical events and happenings closer to people's daily lives, so that they may be explained in more natural usage of phrases and collocations of native speakers of English than other subject textbooks.

3. This is because the high frequency nouns are thought to have more possibility that they are connected with collocates. As the work to check collocates by means of *COBUILD English Collocations on CD-ROM* is time consuming, more than six time frequency words are targeted. This may be the limitation in this research.

4. *COBUILD English Collocations on CD-ROM* and *Oxford Collocations Dictionary for Students of English* are corpus based dictionaries, whose examples are taken from *the Bank of English*, which shows high frequency spoken and written word combinations used in the daily life of native speakers of English. *The BBI Dictionary of English Word Combinations* is however, based on the native speakers' intuition, not corpus based. As both type of dictionaries are thought to be worth checking, they are used to select collocations in this research.

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