

Why?

Wednesday, August 28th, 2024 (9:25~9:50) Room 1A1 Louis Lafleur Kwansei Gakuin University

CALL for humanity

26 - 29 August 2024

The Selection of an Appropriate Word Counting Unit for Vocabulary Teaching and Learning in CALL Projects

..very few studies address teacher/researcher practices and perspectives regarding WCUs

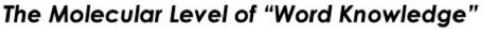
What is a word? according to Google



noun

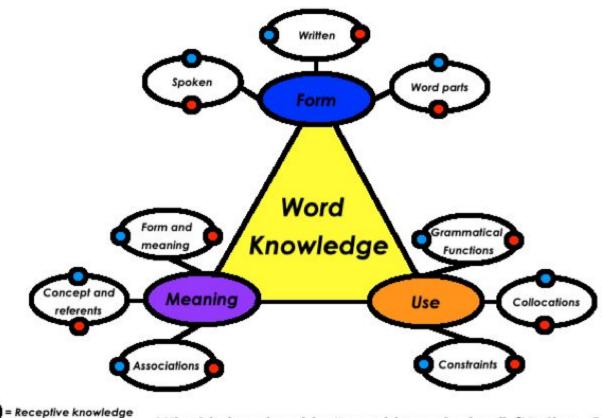
1. a single distinct meaningful element of speech or writing, used with others (or sometimes alone) to form a sentence and typically shown with a space on either side when written or printed.

What about word knowledge? What can be learnt? What should be taught?



= Productive knowledge





What is involved in "word knowledge" (Nation, 2001)



How do we or should we count words?

How many words (do you believe) are there in this list?

drank, drink, drinks, drinkable, drinker, drinking, drunk, drunker, drunkest, drunkenly, non-drinker, undrinkable

(a) 20 (b) 12 (c) 9 (d) 5 (e) 1

Word Counting Unit Reference (Your roadmap to WCUs) →QR link

Example and/or Definition (Context) w	ith notes	① <u>A</u> ll <u>F</u> orms & <u>M</u> eanings	② <u>P</u> lemma ⁽¹⁾ "Plurality ⁽²⁾⁽³⁾ "	③ <u>L</u> emma "Pure ⁽⁴⁾ " Lemma	④ <u>F</u> lemma "Unpure" Lemma	5 <u>W</u> ord <u>F</u> amily (all related forms)			
.to drink water. .he/she/it drinks. .am/are/is/was/were drinking. .drank water vesterday. .have/has/had drunk. .to drink in the view. (Respression) a person who drinks too much .many beverages. a beverage .drinking is/.didi)&ke drinking. .drinking was the drunkeer of all.	PRES 3SG PROG PST PST PART SG VN / GER COMP ADJ	drink (V-1) drinking (V-1) drinking (V-1) drank (V-1) drink (V-2) drink (V-2) drinks (N) drinks (N) drinking (N) drinking (N) drunk (ADJ) drunk (ADJ)	drink (V-1) ^(*) drank (V-1) ^(*) drunk (V-2) drunk (V) drink (N) ^(Δ) drinking (N) drunk (ADJ)	drink (V) drunk (N) drink (N) (^(Δ) drinking (N) drunk (ADJ)	drink	drink			
(person) was the druhkest or all a person who drinks a large brownish European moth a container for animals to drink from he/she is a non−drinker. drinkable (beverage). undrinkable (beverage).	SUPL ADJ SG SG SG hyphenated	drunkest (ADJ) drinker (N-1) drinker (N-2) drinker (N-3) non-drinker (N) drinkable (ADJ) undrinkable (ADJ)	drinker (N-1) drinker (N-2) drinker (N-3) ^(?) non-drinker (N) drinkable (ADJ) undrinkable (ADJ)	drinker (N) (⁽⁷⁾ non-drinker (N) drinkable (ADJ) undrinkable (ADJ)	drinker ^(?) non-drinker drinkable				
undrinkable (beverage) to sing drunkenly		drunkenly (ADV)	drunkenly (ADV)	drunkenly (ADJ)	undrinkable drunkenly				
 termed coined by the author, P from Plurality allows a plurality of entries under same PoS 	Max. allowed #headwords	20	11-15	8-10	5-6	1			
$^{\left(3\right)}$ allows (*) irregular inflectional patterns to be separate items									
⁽⁴⁾ distinguishes between PoS ^(Δ) Should verbal Nouns/Gerunds be considered as a sort of inflectional affix? (debate)	Notable Lists	?	Japanese ESL textbooks' index, Also dictionaries	Lemma Corpuses Ex: COCA lemma list	New General Service List (NGSL)	General Service List (GSL)			
⁽⁷⁾ Should "hyphenated affixes" such as "non-" in non-drinker be considered as a valid prefix? (debate)	Counting Tool(s) ⁽⁵⁾	$\leftarrow \text{ Man & Computer }, \text{ Computer } \rightarrow$							
⁽⁵⁾ WF(\$) & F(4) are more easily computer countable (no PoS) ⁽⁶⁾ for advanced learners, WF may be enough = to infer most forms	Ensued study ⁽⁶⁾	← Immen	se/Slow yet F	Profound , Ligh	← Immense/Slow yet Profound , Light/Quick yet Limited →				



			r				
		① <u>A</u> ll <u>F</u> orms & <u>M</u> eanings	② <u>P</u> lemma ⁽¹⁾ "Plurality ⁽²⁾⁽³⁾ "	③ <u>L</u> emma "Pure ⁽⁴⁾ " Lemma	④ <u>F</u> lemma ″Unpure″ Lemma	⑤ <u>W</u> ord <u>F</u> amily (all related forms)	
Example and/or Definition (Context) w							
to drink water he/she/it drinks am/are/is/was/were drinking	PRES 3SG PROG	drink (V−1) drinks (V−1) drinking (V−1)	drink (V-1)				
drank water vesterday	PST	drank (V-1)	^(*) drank (V-1)	drink (V)			
have/has/had drunk	PST PART	drunk (V-1)	(*) drunk (V-1)				
to drink in the view (*expression)		drink (V-2)	drink (V-2)				
a person who drinks too much	SG	drunk (N)	drunk (N)	drunk (N)	drink		
many beverages a beverage	PL SG	drinks (N) drink (N)	drink (N)	drink (N)			
drinking is /(dis)like drinking	vN / GER	drinking (N)	$^{(\Delta)}$ drinking (N)	$^{(\Delta)}$ drinking (N)		drink	
drunk (person) (person) gets drunker faster (person) was the drunkest of all	COMP ADJ SUPL ADJ	drunk (ADJ) drunker (ADJ) drunkest (ADJ)	drunk (ADJ)	drunk (ADJ)		drink	
a person who drinks a large brownish European moth a container for animals to drink from	SG SG SG	drinker (N-1) drinker (N-2) drinker (N-3)	drinker (N-1) drinker (N-2) drinker (N-3)	drinker (N)	drinker		
he∕she is a non−drinker drinkable (beverage) undrinkable (beverage) to sing drunkenly	hyphenated	non-drinker (N) drinkable (ADJ) undrinkable (ADJ) drunkenly (ADV)	^(?) non-drinker (N) drinkable (ADJ) undrinkable (ADJ) drunkenly (ADV)	^(?) non-drinker (N) drinkable (ADJ) undrinkable (ADJ) drunkenly (ADV)	^(?) non-drinker drinkable undrinkable drunkenly		
 (1) termed coined by the author, P from Plurality (2) allows a plurality of entries under same PoS 	Max. allowed #headwords	20	11-15	8-10	5-6	1	
(3) allows (*) irregular inflectional patterns to be separate items	27. 70 27.	5X	16	50 X	2		
⁽⁴⁾ distinguishes between PoS ^(Δ) Should verbal Nouns/Gerunds be considered as a sort of inflectional affix? (debate)	Notable Lists	?	Japanese ESL textbooks' index, Also dictionaries	Lemma Corpuses Ex: COCA	New General Service List (NGSL)	General Service List (GSL)	
as a sort of inflectional affix? (debate) ⁽⁷⁾ Should "hyphenated affixes" such as "non-" in non-drinker be considered as a valid prefix? (debate)	Counting Tool(s) ⁽⁵⁾	←	Man & Co	emma list	Computer		
 ⁽⁵⁾ WF(5) & F(4) are more easily computer countable (no PoS) ⁽⁶⁾ for advanced learners, WF may be enough = to infer most form 	Ensued	Ensued					

What word counting unit is best for EFL students?

(Literature Review)

The word family (i.e., single headwords such as "drink" but not other word forms such as drinks, drank, drinker, and so on...) has for long been the WCU yardstick (e.g., General Service List; West, 1953) for ESL/EFL teaching as it was assumed students could infer other word forms.

However, recent studies such as McLean (2018); Stoeckel et al. (2020) question the pedagogical appropriateness of the word family as a counting unit for lower-level language learners, and point to other WCUs such as the flemma which presents/counts derivational forms of words as separate entries or the lemma which additionally considers variance in parts of speech as separate entries as being more appropriate alternatives as they permit derivational word forms to be included as additional items.

What word counting unit is best for EFL students?

(Literature Review)

Table 1 The Eight Inflectional Word Forms

#	POS	Inflection description
(1)	nouns	possessive case -'s
(2)	nouns	plural - (e)s or irregular
(3)	verbs	past tense - (e)d or irregular
(4)	verbs	present participle - ing
(5)	verbs	past participle -ed/en or irregular
(6)	verbs	3rd person singular -(e)s
(7)	adjectives	comparative -er
(8)	adjectives	superlative -est

Note. Inflections are limited to suffixes; POS = Part of Speech.

What word counting unit is best for EFL students?

(Literature Review)

Table 2 Derivational Word Form Examples (root word "drink")

Category	Derivational affix	Final word form
noun	-er	drinker
adjective	-able	drinkable
adverb	-en (adj) + -ly (adv)	drunkenly
prefix	non-	non-drinker
prefix & suffix	un- + -able	undrinkable

Note. Example derivational affixes outside of the eight inflections.

		r	ř –		(
		① <u>A</u> ll <u>F</u> orms & <u>M</u> eanings	② <u>P</u> lemma ⁽¹⁾ "Plurality ⁽²⁾⁽³⁾ "	③ <u>L</u> emma "Pure ⁽⁴⁾ " Lemma	④ <u>F</u> lemma ″Unpure″ Lemma	⑤ <u>W</u> ord <u>F</u> amily (all related forms)	
Example and/or Definition (Context) w	ith notes						
to drink water he/she/it drinks am/are/is/was/were drinking	PRES 3SG PROG	drink (V−1) drinks (V−1) drinking (V−1)	drink (V-1)				
drank water yesterday	PST	drank (V-1)	(*) drank (V-1)	drink (V)			
have/has/had drunk	PST PART	drunk (V-1)	^(*) drunk (V-1)				
to drink in the view (*expression) a person who drinks too much	SG	drink (V–2) drunk (N)	drink (V-2)	drunk (N)	drink		
many beverages a beverage	PL SG	drinks (N) drinks (N) drink (N)	drunk (N) drink (N)	drink (N)	unink		
drinking is /(dis)like drinking	vN / GER	drinking (N)	^(△) drinking (N)	$^{(\Delta)}$ drinking (N)		drink	
drunk (person) (person) gets drunker faster (person) was the drunkest of all	COMP ADJ SUPL ADJ	drunk (ADJ) drunker (ADJ) drunkest (ADJ)	drunk (ADJ)	drunk (ADJ)		drink	
a person who drinks a large brownish European moth a container for animals to drink from	SG SG SG	drinker (N-1) drinker (N-2) drinker (N-3)	drinker (N-1) drinker (N-2) drinker (N-3)	drinker (N)	drinker		
he/she is a non-drinker drinkable (beverage) undrinkable (beverage) to sing drunkenly	hyphenated	non-drinker (N) drinkable (ADJ) undrinkable (ADJ) drunkenly (ADV)	^(?) non-drinker (N) drinkable (ADJ) undrinkable (ADJ) drunkenly (ADV)	^(?) non-drinker (N) drinkable (ADJ) undrinkable (ADJ) drunkenly (ADV)	^(?) non-drinker drinkable undrinkable drunkenly		
 (1) termed coined by the author, P from Plurality (2) allows a plurality of entries under same PoS 	Max. allowed #headwords	20	11-15	8-10	5–6	1	
$^{\rm (3)}$ allows (*) irregular inflectional patterns to be separate items	200 - 200 22	50.	las.	20 S			
⁽⁴⁾ distinguishes between PoS ^(Δ) Should verbal Nouns/Gerunds be considered as a sort of inflectional affix? (debate)	Notable Lists	?	Japanese ESL textbooks' index, Also dictionaries	Lemma Corpuses Ex: COCA lemma list	New General Service List (NGSL)	General Service List (GSL)	
(?) Should "hyphenated affixes" such as "non-" in non-drinker be considered as a valid prefix? (debate)	Counting Tool(s) ⁽⁵⁾	<i>←</i>	1.1. (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	55 5	Computer	\rightarrow	
 ⁽⁵⁾ WF(5) & F(4) are more easily computer countable (no PoS) ⁽⁶⁾ for advanced learners, WF may be enough = to infer most form: 	Ensued s study ⁽⁶⁾	EnsuedImmenses / Clauser + Destauredinstant					

Do on-the-ground teaching practices & perspectives reflect these recent recommendations in the literature?

This mixed-approach study surveyed 30 ESL/EFL teachers in Japan and collected both quantitative and qualitative data through an online questionnaire.

The questionnaire surveyed their vocabulary teaching experience and views regarding five categories of WCUs:

- (1) All Forms & Meanings
- (2) Plemma
- (3) Lemma
- (4) Flemma
- (5) Word Family

Example and/or Definition (Context) w	<i>i</i> ith notes	① <u>A</u> ll <u>F</u> orms & <u>M</u> eanings	② <u>P</u> lemma ⁽¹⁾ "Plurality ⁽²⁾⁽³⁾ "	③ <u>L</u> emma "Pure ⁽⁴⁾ " Lemma	④ <u>F</u> lemma ″Unpure″ Lemma	⑤ <u>W</u> ord <u>F</u> amily (all related forms)	
to drink water he/she/it drinks am/are/is/was/were drinking	PRES 3SG PROG	drink (V-1) drinks (V-1) drinking (V-1)	drink (V-1)	drink (V)			
drank water yesterday have/has/had drunk to drink in the view. (*expression)	PST PST PART	drank (V-1) drunk (V-1) drink (V-2)	^(*) drank (V−1) ^(*) drunk (V−1) drink (V−2)				
a person who drinks too much many beverages a beverage	SG PL SG	drunk (N) drinks (N) drink (N)	drunk (N) drink (N)	drunk (N) drink (N)	drink		
drinking is /(dis)like drinking drunk (person) (person) gets drunker faster (person) was the drunkest of all	vN / GER COMP ADJ SUPL ADJ	drinking (N) drunk (ADJ) drunker (ADJ) drunkest (ADJ)	^(Δ) drinking (N) drunk (ADJ)	^(Δ) drinking (N) drunk (ADJ)		drink	
a person who drinks a large brownish European moth a container for animals to drink from	SG SG SG	drinker (N-1) drinker (N-2) drinker (N-3)	drinker (N-1) drinker (N-2) drinker (N-3)	drinker (N)	drinker		
he∕she is a non−drinker drinkable (beverage) undrinkable (beverage) to sing drunkenly	hyphenated	non-drinker (N) drinkable (ADJ) undrinkable (ADJ) drunkenly (ADV)	^(?) non-drinker (N) drinkable (ADJ) undrinkable (ADJ) drunkenly (ADV)	^(?) non-drinker (N) drinkable (ADJ) undrinkable (ADJ) drunkenly (ADV)	^(?) non-drinker drinkable undrinkable drunkenly		
 (1) termed coined by the author, P from Plurality (2) allows a plurality of entries under same PoS 	Max. allowed #headwords	20	11-15	8-10	5-6	1	
$^{(3)}$ allows (*) irregular inflectional patterns to be separate items	1977 - 19						
⁽⁴⁾ distinguishes between PoS ^(Δ) Should verbal Nouns/Gerunds be considered as a sort of inflectional affix? (debate)	Notable Lists	?	Japanese ESL textbooks' index, Also dictionaries	Lemma Corpuses Ex: COCA lemma list	New General Service List (NGSL)	General Service List (GSL)	
⁽⁷⁾ Should "hyphenated affixes" such as "non-" in non-drinker be considered as a valid prefix? (debate)	Counting Tool(s) ⁽⁵⁾	←	Man & Co	mputer ,	Computer	\rightarrow	
⁽⁵⁾ WF(5) & F(4) are more easily computer countable (no PoS) ⁽⁶⁾ for advanced learners, WF may be enough = to infer most forms	Ensued	Ensued (Increased / Clausert Destaured Light / Out also set Light -)					

RQ1:

On a 5-point Likert satisfaction scale, how do teachers in Japan rate the various word counting units they have utilized in their teaching?

What word counting units have they utilized when teaching vocabulary?

Table 16. Participant Word Counting Unit Teaching Experience (n=30)

	(1) AFM	(2) Plemma	(3) Lemma	(4) Flemma	(5) Word Family
Yes	2 (6.7%)	6 (20%)	6 (20%)	5 (16.7%)	11 (36.7%)
No	27 (90%)	23 (76.7%)	23 (76.7%)	24 (80%)	17 (56.7%)
Other	1 (3.3%)	1 (3.3%)	1 (3.3%)	1 (3.3%)	2 (6.7%)

Note. AFM = All Forms and Meanings or all word tokens

Word Counting Unit Satisfaction (per WCU type & Overall Rank)

WCU n= # of responses	1	2	3	4	5	Mean SD	Overal Rank
(1) AFM n=2	0	0	1 (50%)	1 (50%)	0	M=3.5 SD=0.71	3rd
(2) Plemma n=6	0	0	1 (16.7%)	4 (66.7%)	1 (16.7%)	M=4 SD=0.63	2nd
(3) Lemma n=7	0	0	0	5 (71.4%)	2 (28.5%)	M=4.29 SD=0.49	1st
(4) Flemma n=5	0	0	3 (60%)	2 (40%)	0	M=3.4 SD=0.55	4th
(5) Word Family n=9	0	4 (44.4%)	2 (22.2%)	2 (22.2%)	1 (11.1%)	M=3 SD=1.12	5th

Table 17. Participant Word Counting Unit Satisfaction and Overall Rank

Note. Rank established by the author with the available data. 5-point Likert scale, (1) = poor, (5) = excellent (satisfaction); AFM = All Forms and Meanings or all word tokens; SD= Standard Deviation

"As long as contextual examples are provided, they seem to help students remember the vocabulary. (P#16)"

Level Category	TOEIC L&R score	CEFR level	CEFR description	# of responses
(1)	120-220	A1	Basic-Breakthrough	4
(2)	225-385	A2-1	Basic-Waystage user	4
(3)	385-545	A2-2	Waystage user	10
(4)	550-780	B 1	Independent-Threshold user	5
(5)	785-940	B2	Independent-Vantage user	0
(6)	945-990	C1	Proficient user	0
	7			

Table 18. Participants' Perceived Average Student Proficiency Level (n=30)

What are teachers' opinions of the various types of word counting units in terms of their appropriateness for students in Japan?

RQ2:

Table 19. Perceived Word Counting Unit Appropriateness for Teaching One's Students

	(1)	(2)	(3)	(4)	(5)	Mean SD
(1) AFM	9	3	3	3	3	M=2.43
	(42.8%)	(14.3%)	(14.3%)	(14.3%)	(14.3%)	SD=1.54
(2) Plemma	5	5	2	4	5	M=2.95
	(23.8%)	(23.8%)	(9.5%)	(19.05%)	(23.8%)	SD=1.56
(3) Lemma	4	2	8	3	4	M=3.05
	(19.05%)	(9.5%)	(38.1%)	(14.3%)	(19.05%)	SD=1.36
(4) Flemma	7	4	4	4	2	M=2.52
	(33.3%)	(19.05%)	(19.05%)	(19.05%)	(9.5%)	SD=1.40
(5) Word Family	10	2	0	4	5	M=2.62
	(47.6%)	(9.5%)	(0%)	(19.05%)	(23.8%)	SD=1.77

Note. 5-point Likert scale, (1) = poor, (5) = excellent (perceived appropriateness); n=21

Table 20. Participant Futur	e Aspiration to Utilize the	e following Word	Counting Units
-----------------------------	-----------------------------	------------------	----------------

Response	(1) AFM	(2) Plemma	(3) Lemma	(4) Flemma	(5) WF
Yes	17 (56.7%)	19 (63.3%)	18 (60%)	14 (46.7%)	15 (50%)
No	10 (33.3%)	6 (20%)	9 (30%)	14 (46.7%)	7 (23.3%)
Other	3 (10%)	5 (16.7%)	3 (10%)	2 (6.7%)	8 (26.7%)

Note. AFM = All Forms and Meanings or all word tokens; n=30

"Less useful entries (such as the moth [drinker] and the inflected adjectives) can be omitted while more useful ones (irregular verb forms) [could be] included. (P#20)".

RQ3:

What are the teachers' perspectives about including additional word forms (e.g., gerunds and irregular verb patterns) as additional vocabulary/study items?

Table 21. Participant Opinion about Including some Words Forms as Additional Items

	Additional item	Not separate	Other / no opinion
(1) Should verbal nouns/gerunds (Ex: I (dis)like drinking) be considered as a kind of inflectional affix or as an additional/separate study item (under plemma and lemma)?	10	14	6
(2) Should irregular patterns of verb inflections (e.g. drink \rightarrow drank, drunk) be considered as a kind of inflectional affix or as an additional/separate study item?	5	16	9
(3) Should hyphenated prefixes (e.g. "non-" in non-drinker) be considered as a regular "derivational prefix/affix" (separate item) or not regular (not a separate item)?	4	16	10

Note. n=30

Lafleur, L. (2023). Teaching practices and perspectives regarding word counting units. Vocabulary Learning and Instruction, 12(1), 31-49. https://doi.org/10.29140/vli.v12n1.1210 8 OPEN ACCESS







Volume 12, Number 1 (2023) https://doi.org/10.29140/vli.v12n1.1210

Castledo

Teaching Practices and Perspectives Regarding Word Counting Units

> Louis Lafleur 💿 Kwansei Gakuin University, Japan louislafleur333@gmail.com

Abstract

The selection of an appropriate word counting unit (WCU) for the purpose of second/foreign language vocabulary acquisition (SLVA) in the last decade has become a very important and relevant topic in academic circles. However, few studies address on-the-ground teaching practices and perspectives. This mixed-approach study, conducted through an online questionnaire, collected both quantitative and qualitative data from 30 ESL/EFL teachers in Japan. The questionnaire surveyed their vocabulary teaching experience and views regarding five categories of WCUs: all word tokens (i.e., All Forms and Meanings (AFM)), plemma, lemma, flemma, and Word Family (WF). The online survey revealed that most participants (i.e., those who were not aware of SLVA research and recent teaching practices) had limited experience and knowledge regarding WCUs and their impact. Another important finding is that although the WCU category participants were most experienced with is the WF (i.e., root/basic word lists), the WCU they have the highest pedagogical regard for is the lemma which considers parts of speech (POS) in vocabulary instruction and learning, followed closely by the plemma which additionally considers the various meanings words can take on, and also irregular inflectional patterns (e.g., irregular verb past tenses and past participles), and to a lesser extent the flemma which does not consider POS nor the various meanings and irregular inflectional patterns of words in vocabulary instruction.

Keywords: Word counting unit, word family, flemma, lemma, plemma, ESL/EFL in Japan

Copyright: @ 2023 Louis Lafleur. This is an open access article distributed under the terms of the Creative Commons Attribution Non-Commercial 4.0 International License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Data Availability Statement: All relevant data are within this paper.

Q & A time, contact Information, presentation slides & more

Presearchmap Louis Lafleur



(researchgate.net) Louis Lafleur

(academia.edu) Louis Lafleur

free to use: Creative SA BY SA BY SA 4.0 Louis Lafleur

Ideas, ressources & research are



(email) louislafleur333@gmail.com

Thank you and feel free to contact me anytime!