Investigating the Vocabulary Load of Psychology Textbooks: A Corpus-Based Study

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Abstract:

The current corpus based study investigated the lexical profile of psychology textbooks using BNC/COCA list. To this end, 30 introductory and general psychology textbooks with around 14.8 million running words were analyzed. The findings indicated that 2048 word families provided 82.66% coverage of the corpus. The study identified 1294 high frequent and 754 mid-frequent word families with high value for psychology students, which makes it possible to have a better and well-tuned vocabulary learning goals.

Keywords: lexical profile, discipline specific word lists, psychology, high-frequent words, mid-frequent words, corpus linguistics, EAP

Introduction:

Given the importance of vocabulary in developing second language knowledge in general, the field of applied linguistics has long been concerned with identifying the most useful words for language learners at different stages of learning. In a widely used classification, Coxhead and Nation (2001) divided English vocabulary into four categories: (1) high-frequency or general service vocabulary, (2) academic vocabulary, (3) technical vocabulary and (4) low-frequency vocabulary. It has been argued that beginner English language learners need to focus on the first 2000 most frequent word families of English in the General Service List (GSL) (West, 1953), while the university students should work on academic vocabulary (Coxhead, 2000; E. S.-L. Li & Pemberton, 1994). As a result, over the past years, there has been a consistent concern among the researchers to develop academic vocabulary lists to serve the needs of language learners in university programs (Coxhead, 2000; Farrell, 1990; Gardner & Davies, 2014; Xue & Nation, 1984).

Academic Word List (AWL) (Coxhead, 2000) which contains 570 word families, has been employed extensively in instructional programs (Coxhead, 2011), and remained as a benchmark for materials developments in EAP programs (e.g. Huntley, 2006; Schmitt & Schmitt, 2005; Wells, 2007). Moreover, a number of studies have investigated its coverage in different text types in various academic disciplines (Chen & Ge, 2007; Khani & Tazik, 2013; Konstantakis, 2007; Y. Li & Qian, 2010; Martínez et al., 2009; Tongpoon-Patanasorn, 2018). The overall picture provided by these studies further supported the claim that the AWL covers around 10% of most academic texts (Coxhead, 2000; Coxhead & Byrd, 2007), however, the studies also indicated that there is considerable variation in the coverage of the AWL among some disciplines. In line with these observations, the common core approach for identifying an academic word list to cater for the needs of students in different academic disciplines has been severely criticized (Hyland & Tse, 2007). Moreover, by recognizing the overlap between high-frequency, academic, and technical words, a new classification system has been proposed recently, which includes high-, mid-, and low frequency vocabulary (Nation, 2013). In this new system academic and technical vocabulary are considered under the category of specialized vocabulary.

According to Coxhead (2018), the increased demand for STEM (Science, Technology, Engineering and Mathematics) education for international students has caused increased attention among the researchers to abovementioned fields. Nonetheless, she further claims that humanities have not received much attention in university vocabulary studies, and subject areas like Psychology has remained under researched. To this end, the current corpus-based study aimed to investigate the vocabulary load of psychology textbooks, and by using the classification system proposed by Nation (2013), it identifies high-, mid frequent words in psychology textbooks. The results can help both psychology students and teachers in EAP programs to set vocabulary learning goals.

Method:

The current study used a corpus of psychology e-textbooks (Appendix A). In order to make the data machine readable, the pdf files were converted to text files. The size of the corpus was 14,816,499 words. The study also used AntWordProfiler (Anthony, 2014), and the BNC/COCA base lists to examine the corpus for its vocabulary load. The software compares the texts loaded into the program against a set of vocabulary level lists, and generate vocabulary statistic and complete frequency information about the corpus.

In order to create high- and mid-frequency vocabulary lists for psychology textbooks, two criteria of frequency and range have been used. In this regard, following Coxhead (2000), the vocabulary items had to occur at least 28.5 times per million words in the corpus, and in at least 20 out of the 29 psychology textbooks to be included in the lists. It should be also noted that the current study used the word family defined as the base word plus its inflected forms and transparent derivations as the unit of counting.

Results and discussion:

The table 1 shows the lexical profile of psychology textbooks. The first two lists which constitute high-frequency words account for 60.88% and 11.73% of the tokens (running words) in the corpus. The cumulative coverage of these two base-list was 72.61% of the corpus. The base-list 3 to 8 that regarded as the mid-frequency words accounted for 14.03% of the tokens. Nonetheless, it should be highlighted that the third base-list alone accounted for 9% of the tokens in the corpus. Finally, the low frequent words as represented by base-list 9 to 30 accounted only for 1.6% of the corpus. The coverage of base lists 31 to 34 which include abbreviations, proper nouns was 6.85%. Overall, the BNC/COCA base list accounted 95.09% percent of the corpus. 4.93% of the tokens were outside the coverage of the base list, and included numbers and mostly incomplete or non-word items resulted from converting the PDF e-books to text files.

Table 1: the lexical profile of psychology textbooks based on BNC/COCA lists

LEVEL	FILE	TOKEN	TOKEN%	CUMTOKEN%	GROUP
1	basewrd1.txt	9020559	60.88	60.88	999
2	basewrd2.txt	1738609	11.73	72.61	999
3	basewrd3.txt	1332783	9	81.61	1000
4	basewrd4.txt	336590	2.27	83.88	994
5	basewrd5.txt	145113	0.98	84.86	991
6	basewrd6.txt	116999	0.79	85.65	958
7	basewrd7.txt	77919	0.53	86.18	934
8	basewrd8.txt	67924	0.46	86.64	898
9	basewrd9.txt	40908	0.28	86.92	849
10	basewrd10.txt	32710	0.22	87.14	748
11	basewrd11.txt	30290	0.2	87.34	698
12	basewrd12.txt	19168	0.13	87.47	569
13	basewrd13.txt	23665	0.16	87.63	509
14	basewrd14.txt	21825	0.15	87.78	431
15	basewrd15.txt	14464	0.1	87.88	380
16	basewrd16.txt	11641	0.08	87.96	339

17	basewrd17.txt	12244	0.08	88.04	293
18	basewrd18.txt	6463	0.04	88.08	268
19	basewrd19.txt	5970	0.04	88.12	219
20	basewrd20.txt	4217	0.03	88.15	200
21	basewrd21.txt	4282	0.03	88.18	187
22	basewrd22.txt	2386	0.02	88.2	146
23	basewrd23.txt	2748	0.02	88.22	142
24	basewrd24.txt	1121	0.01	88.23	140
25	basewrd25.txt	1125	0.01	88.24	114
26	basewrd31.txt	471321	3.18	91.42	8676
27	basewrd32.txt	403838	2.73	94.15	34
28	basewrd33.txt	43537	0.29	94.44	1182
29	basewrd34.txt	95579	0.65	95.09	589
0	-	730501	4.93	100.02	72047
TOTAL:		14816499		118743	

In order to identify high-, mid-, and low-frequency vocabulary in psychology textbooks, the output from AntWordProfiler was copied into a Microsoft worksheet and analyzed. In this regard, 1294 word families from the two first base lists (796 in 1 and 498 in 2) met the criteria set for this study. These word families accounted for 10,611,532 tokens and 71.6% of the corpus. Comparing this coverage to total coverage provided by these lists indicated that the remaining 706 word families accounted for about 1% of the corpus. The study also identified 754 word families in base lists 3 to 8 that occurred with high frequency and acceptable range in psychology textbooks. These items accounted for 1,640,114 tokens and 11.06% of the corpus.

The findings have some implications for teaching English vocabulary for Psychology students. First, the results indicated that even in high-frequent word list, some vocabulary items tend to occur with low frequency in psychology textbooks. This is particularly important for those studying English for academic purposes in EFL context. Indeed, previous research indicated that in most EFL contexts, learners fail to acquire this essential vocabulary (Webb & Chang, 2012). In this regard, the findings help both students and teachers to focus on the vocabulary items that are frequent in psychology texts. Second, the study also identified some mid-frequency words that provide a considerable coverage of 11% in the psychology textbooks. This coverage is similar to coverage provided by AWL (Coxhead & Byrd, 2007). Nonetheless, the AWL was created based on the GSL (West, 1953) which has been criticized for its age (Gardner & Davies, 2014), and the use of BNC/COCA lists provide better results as their

creation were more systematic and based on large and representative corpora. In this regard, it is possible to treat this list as an important list for psychology vocabulary. According to Nation (2013), after learning high-frequent vocabulary, language learners should proceed with focusing on mid-frequent vocabulary. As university students need to have a sufficient knowledge of these vocabulary to comprehend academic texts, teachers should provide them with appropriate materials. The findings of the current study can contribute to this need, as the list contains around 750 headwords with high value for psychology students.

Conclusion:

The current corpus based study investigated the lexical profile of psychology textbooks and created to lists of high- and mid-frequency vocabulary items to help psychology students in vocabulary learning goals. The findings revealed that 2048 word families from BNC/COCA lists provided a coverage of 82.66% in psychology textbooks. Given the enormous size of English vocabulary, this list is a valuable resource for psychology students to focus their attention and learning effort of essential vocabulary of their field. The study had some limitations that should be acknowledged. First, the corpus included only psychology textbooks, and in order to have a more comprehensive picture of vocabulary in this field, research need to investigate corpora containing other documents such as research articles and academic lectures. Second, the study was quantitative in nature and provides no information regarding the rhetorical functions of different vocabulary in psychology textbooks.

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Appendix A: the books included in the corpus

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2. Coon, D., & Mitterer, J. O. (2009). *Psychology: Modules for Active Learning*. Thomson Higher Education.
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29. Zimbardo, P. G., Johnson, R. L., & McCann, V. (2012). *Psychology: Core Concepts*. Pearson Education, Inc.

the	1	654749
be	1	560251
of	1	462021
and	1	392797
a	1	389430
to	1	324856
in	1	280005
that	1	177938
have	1	133312
they	1	117055
or	1	103890
you	1	102719
for	1	99544
we	1	99381
as	1	96873
not	1	78345
with	1	77415
this	1	76940
it	1	76183
on	1	75353
by	1	64964
do	1	60383
from	1	53705
other	1	50519
can	1	49609
people	1	47489
more	1	44809
he	1	42510
some	1	41969
at	1	41824
one	1	40388
when	1	38489
learn	1	38393
i	1	36961
brain	2	36310
which	1	36294
what	1	36168
memory	2	35953
use	1	35646
child	1	34772
study	1	33896
social	2	33895
how	1	33733
but	1	33628
who	1	31909
may	1	31596
about	1	31297

think	1	30528
develop	2	30480
research	2	29460
see	1	29308
person	1	29131
than	1	28914
if	1	28532
such	1	28275
new	1	27032
also	1	26896
emotion	2	26369
time	1	25843
will	1	24630
sex	1	23959
she	1	23936
group	1	22979
make	1	22740
chapter	2	22493
all	1	22278
experience	1	22034
human	1	21617
most	1	20821
relate	1	20773
test	1	20632
self	1	20488
process	2	20304
science	1	20282
many	1	19505
example	2	19227
figure	1	19174
so	1	19142
inform	1	19012
condition	2	18960
change	1	18935
find	1	18926
help	1	18867
effect	2	18770
two	1	18380
work	1	18204
feel	1	17840
problem	1	17772
able	1	17545
sleep	1	17524
system	1	17306
mental	2	17303
would	1	17004
show	1	16212

stress	2	16197
high	1	16032
out	1	15889
between	1	15854
culture	2	15715
way	1	15558
different	1	15288
into	1	15269
life	1	15184
because	1	15006
active	2	14873
influence	2	14583
any	1	14457
like	1	14447
age	1	14346
year	1	14337
control	1	14336
health	1	14306
each	1	14229
edit	2	14192
no	1	14163
there	1	14151
act	1	13921
term	1	13865
after	1	13813
take	1	13759
body	1	13664
treat	1	13509
part	1	13502
woman	1	13463
man	1	13151
individual	2	12995
mean	1	12991
only	1	12983
first	1	12971
conscious	2	12957
through	1	12813
depress	2	12813
drug	1	12807
call	1	12783
need	1	12781
even	1	12746
three	1	12697
know	1	12684
cause	1	12603
become	1	12498
associate	2	12474

difference	1	12437
adult	2	12345
up	1	12186
image	2	12163
tend	1	11927
occur	2	11821
language	2	11818
same	1	11813
long	1	11788
often	1	11775
involve	1	11774
include	2	11723
event	2	11707
then	1	11671
question	1	11669
page	1	11620
result	2	11596
during	1	11565
likely	2	11561
increase	2	11372
give	1	11269
word	1	11268
vary	2	11137
explain	1	11111
nature	1	11105
general	1	10890
stage	1	10871
well	1	10804
situation	1	10781
environme	2	10781
form	1	10732
parent	1	10642
student	1	10615
over	1	10272
identify	2	10264
level	1	10241
however	1	10217
another	1	10115
why	1	10054
both	1	10013
understanc	1	9879
early	1	9868
could	1	9854
observe	2	9806
day	1	9739
just	1	9734
less	1	9700

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mind	1	9610
get	1	9581
physical	2	9518
right	1	9487
object	2	9472
area	1	9466
role	2	9443
world	1	9410
much	1	9395
might	1	9375
score	2	9373
say	1	9344
type	1	9137
view	1	9114
follow	1	9090
produce	2	8999
late	1	8958
move	1	8957
measure	2	8914
press	1	8866
every	1	8757
positive	2	8717
fear	1	8629
look	1	8606
similar	2	8598
important	1	8556
perform	2	8513
answer	1	8512
go	1	8349
number	1	8305
seem	1	8194
own	1	8181
base	1	8178
affect	2	8127
approach	2	8092
model	2	8062
pain	1	8032
very	1	7995
centre	1	7914
believe	1	7904
begin	1	7853
family	1	7845
suggest	1	7825
animal	1	7757
case	1	7737
dream	1	7733

create	2	7733
old	1	7722
ask	1	7705
set	1	7640
while	1	7631
university	2	7566
eat	1	7547
specific	2	7544
play	1	7542
report	1	7540
try	1	7507
face	1	7437
state	1	7433
rate	1	7423
pattern	2	7378
come	1	7296
good	1	7282
eye	1	7250
evidence	2	7232
reason	1	7200
particular	1	7166
great	1	7150
real	1	7112
live	1	7094
describe	2	7031
sense	1	6921
before	1	6891
point	1	6873
light	1	6866
school	1	6745
although	1	6733
express	1	6727
normal	1	6717
provide	2	6715
food	1	6692
should	1	6689
apply	2	6662
common	2	6660
refer	2	6647
usual	1	6637
add	1	6606
colour	1	6604
remember	1	6594
percent	2	6576
read	1	6546
sound	1	6529
among	1	6508

major	1	6453
possible	1	6453
young	1	6450
reduce	2	6442
left	1	6435
expect	1	6383
large	1	6366
attention	2	6361
attitude	2	6359
place	1	6335
rather	1	6306
support	1	6284
idea	1	6267
simple	1	6247
whether	1	6245
consider	1	6209
appear	1	6191
friend	1	6183
second	1	6182
basic	1	6160
nervous	2	6138
must	1	6083
male	2	6079
actual	1	6073
thing	1	6066
college	1	6056
adapt	2	6035
rights	1	5992
better	1	5988
present	1	5983
risk	2	5972
organize	2	5969
recall	2	5910
without	1	5887
certain	1	5811
according	2	5798
per	2	5794
compare	2	5759
fact	1	5751
where	1	5727
states	2	5667
skill	2	5657
now	1	5656
drive	1	5654
hear	1	5615
require	2	5612
love	1	5611

react	2	5569
value	2	5502
few	1	5478
key	1	5467
goal	2	5459
discuss	2	5440
alcohol	2	5415
close	1	5392
difficult	1	5391
practise	2	5390
tell	1	5387
several	1	5381
female	2	5372
interest	1	5367
continue	1	5273
represent	2	5254
short	1	5235
determine	2	5215
teach	1	5202
aware	1	5196
turn	1	5120
care	1	5112
hand	1	5095
member	1	5094
strong	1	5081
grow	1	5059
classic	2	4991
select	2	4971
depend	1	4945
disease	2	4945
receive	2	4944
want	1	4943
toward	1	4923
small	1	4905
down	1	4882
photograph	1	4850
success	2	4845
mother	1	4827
back	1	4826
little	1	4815
period	2	4799
shape	1	4774
within	1	4770
avoid	2	4726
train	1	4705
four	1	4699
order	1	4680

name	1	4648
desire	2	4648
end	1	4642
deep	1	4621
profession	2	4603
table	1	4599
typical	2	4598
low	1	4584
still	1	4540
expose	2	4516
mood	2	4508
easy	1	4493
store	1	4493
kind	1	4472
average	2	4448
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