

**Supplementary Table S1.** Specific search strings of the databases

<b>ProQuest Dissertations &amp; Theses Global (ProQuest)</b>
<p>((ab("ILH") OR ti("ILH") OR diskw("ILH")) OR (ab("involvement load") OR ti("involvement load") OR diskw("involvement load"))) OR (ab("task effectiveness") OR ti("task effectiveness") OR diskw("task effectiveness"))) OR (ab(task-induced) OR ti(task-induced) OR diskw(task-induced)))</p>
<p><b>AND</b></p> <p>((ab(word*) OR ti(word*) OR diskw(word*)) OR (ab(vocab*) OR ti(vocab*) OR diskw(vocab*))) OR (ab(collocation*) OR ti(collocation*) OR diskw(collocation*))) OR (ab("n gram") OR ti("n gram") OR diskw("n gram")) OR (ab(idiom*) OR ti(idiom*) OR diskw(idiom*)) OR (ab(lex*) OR ti(lex*) OR diskw(lex*)) OR (ab(chunk*) OR ti(chunk*) OR diskw(chunk*)) OR (ab(phras*) OR ti(phras*) OR diskw(phras*)) OR (ab(pattern*) OR ti(pattern*) OR diskw(pattern*)) OR (ab(formulaic*) OR ti(formulaic*) OR diskw(formulaic*)) OR (ab(figurative*) OR ti(figurative*) OR diskw(figurative*)) OR (ab(fixed-frame*) OR ti(fixed-frame*) OR diskw(fixed-frame*)) OR (ab(binomial*) OR ti(binomial*) OR diskw(binomial*)))</p>
<p><b>LIMITS APPLIED</b></p> <ol style="list-style-type: none"> <li>1. Search by document title, abstract, and index terms</li> <li>2. Unselect full-text</li> <li>3. Select all dates</li> <li>4. Select English only</li> </ol>
<b>Educational Resources Information Center (ERIC)</b>

(TI "ILH" OR AB "ILH") OR (TI "involvement load" OR AB "involvement load") OR ("task effectiveness" OR AB "task effectiveness") OR (task-induced OR AB task-induced)

**AND**

(TI word\* OR AB word\*) OR (TI vocab\* OR AB vocab\*) OR (TI collocation\* OR AB collocation\*) OR (TI “n gram” OR AB “n gram”) OR (TI idiom\* OR AB idiom\*) OR (TI lex\* OR AB lex\*) OR (TI chunk\* OR AB chunk\*) OR (TI phras\* OR AB phras\*) OR (TI pattern\* OR AB pattern\*) OR (TI formulaic\* OR AB formulaic\*) OR (TI figurative\* OR AB figurative\*) OR (TI fixed-frame\* OR AB fixed-frame\*) OR (TI binomial\* OR AB binomial\*)

**LIMITS APPLIED**

1. Must be ERIC only
2. Select Peer Reviewed
3. Unselect the "full-text" option
4. Select all publication types
5. Select all intended audience
6. Select equivalent subjects
7. Unselect apply related words
8. Leave date of publication blank (all years-unspecified)
9. Select title or abstract
10. Select English only

**Institute of Electrical and Electronics Engineers (IEEE)**

("Document Title": "ILH" OR "Document Title": "involvement load" OR "Document Title": "task effectiveness" OR "Document Title": "task induced") OR ("Abstract": "ILH" OR "Abstract": "involvement load" OR "Abstract": "task effectiveness" OR "Abstract": "task induced") OR ("Index Terms": "ILH" OR "Index Terms": "involvement load" OR "Index Terms": "task effectiveness" OR "Index Terms": "task induced")

## **AND**

According to the regulations of IEEE database, the terms which related to vocabulary were manually checked by the researchers.

## **LIMITS APPLIED**

IEEE regulations:

1. Limit the total number of wildcards to 7
2. Limit search terms to 20
3. Limited combined search terms to 50

General limits:

4. Search by abstract, index terms, document title
5. Select all dates (1884-2022)
6. Select English only

## **Web of Science (WOS)**

“ILH” (Topic) or “involvement load” (Topic) or “task effectiveness” (Topic) or task-induced (Topic)

## **AND**

word\* (Topic) or vocab\* (Topic) or collocation\* (Topic) or “n gram” (Topic) or idiom\* (Topic) or lex\* (Topic) or chunk\* (Topic) or phras\* (Topic) or pattern\* (Topic) or formulaic\* (Topic) or figurative\* (Topic) or fixed-frame\* (Topic) or binomial\* (Topic)

### LIMITS APPLIED

1. Choose WOS core collection
2. Search by topic
3. Select English only
4. Select all years (1980 – 2021)

### Scopus

(( TITLE-ABS-KEY ( {ILH} ) ) OR ( TITLE-ABS-KEY ( {involvement load} ) )  
OR ( TITLE-ABS-KEY ( {task effectiveness} ) ) OR ( TITLE-ABS-KEY ( {task induced} ) ) )

### AND

(( TITLE-ABS-KEY ( word\* ) ) OR ( TITLE-ABS-KEY ( vocab\* ) ) OR ( TITLE-ABS-KEY ( collocation\* ) ) OR ( TITLE-ABS-KEY ( {n gram} ) ) OR ( TITLE-ABS-KEY ( idiom\* ) ) OR ( TITLE-ABS-KEY ( lex\* ) ) OR ( TITLE-ABS-KEY ( chunk\* ) ) OR ( TITLE-ABS-KEY ( phras\* ) ) OR ( TITLE-ABS-KEY ( pattern\* ) ) OR ( TITLE-ABS-KEY ( formulaic\* ) ) OR ( TITLE-ABS-KEY ( figurative\* ) ) OR ( TITLE-ABS-KEY ( fixed AND frame\* ) ) OR ( TITLE-ABS-KEY ( binomial\* ) ) )

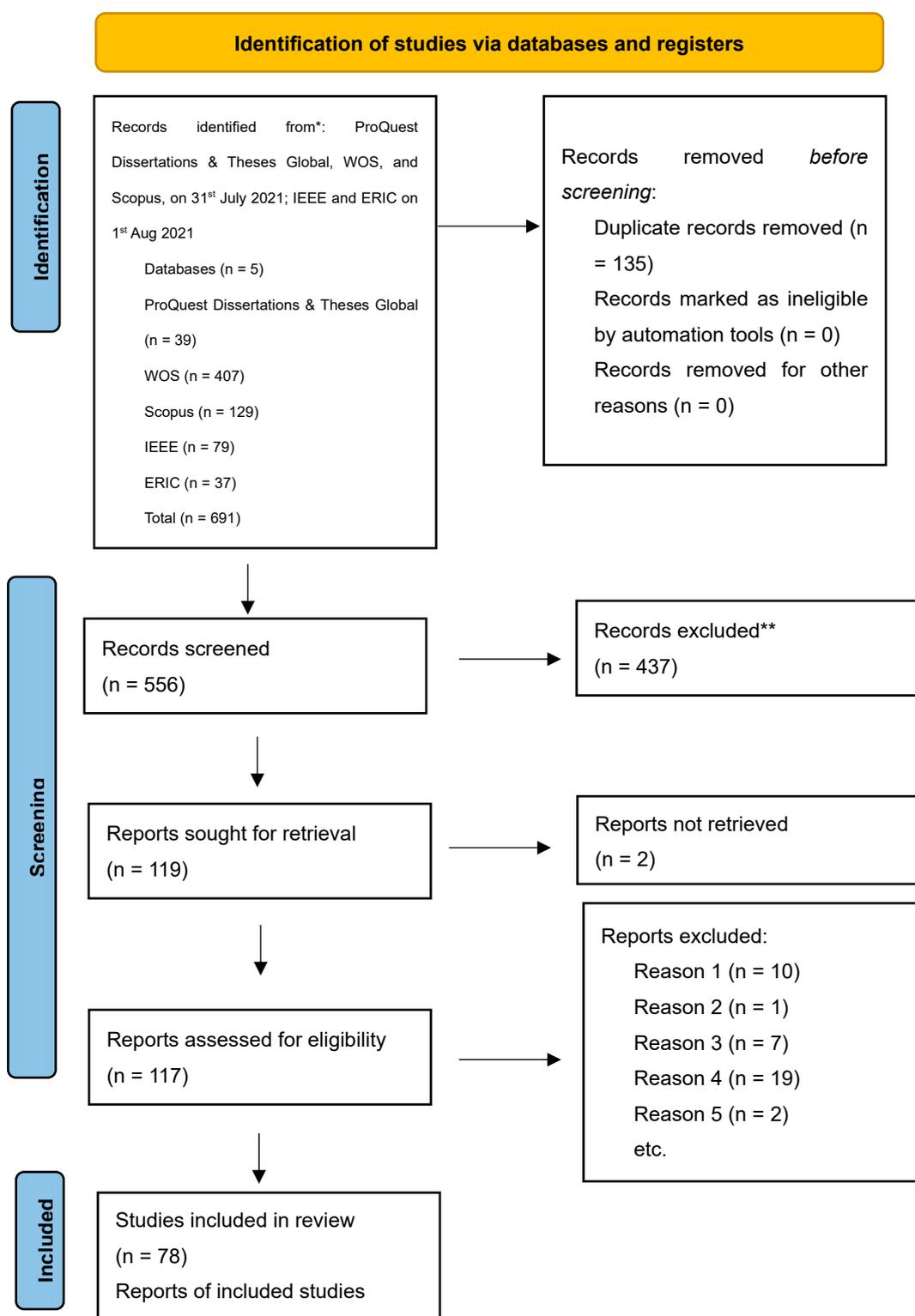
### LIMITS APPLIED

1. Search by abstract, article title, keywords

2. Select all dates (1788-2021)
3. Select English only

*Note.* The Scopus, WOS, and ProQuest database searches were conducted on 31 July 2021. The IEEE and ERIC database searches were conducted on August 1, 2021. To improve the reliability of database retrieval, each database was retrieved twice. A comparison of the two rounds of database searches showed that the same number of articles were identified.

Supplementary Figure S1. Prisma 2020 flow diagram



**Supplementary Table S2.** Coding framework for systematic review of the ILH

Code	Coding criteria
Publication year	When was the study published?
Author	Who wrote the study?
Country or Region	In which country or region was the study conducted?
Publication type	What publication type is this study?
Research aim/objective	What is the research aim/objective of the study?
Hypotheses	“Hypotheses are declarative statements in quantitative research in which the investigator makes a prediction or a conjecture about the outcomes of a relationship” (Creswell & Guetterman, 2019, p.623).
Theoretical framework	“A theoretical framework advances an abstract and formalized set of assumptions to guide the design and conduct of the research” (Creswell & Creswell, 2018, p.309).
Quantitative research (QUAN)	Quantitative research “is a means for testing objective theories by examining the relationship among variables” (Creswell & Creswell, 2018, p.334).
Qualitative research (QUAL)	Qualitative research “is a means for exploring and understanding the meaning individuals or groups ascribe to a social or human problem” (Creswell & Creswell, 2018, p.333).
Mixed methods research (MIXED)	Mixed methods research “is an approach to inquiry that combines or integrates both qualitative and quantitative forms of research” (Creswell & Creswell, 2018, p.331).
Research design	Research designs are “procedures for collecting, analyzing, and reporting research in quantitative and qualitative research (e.g., experiments)” (Creswell & Guetterman, 2019, p.628).
Target word	What words were chosen as the target words in this study?
Task type	What types of tasks were investigated in the study?
Time on task	In the study, how long did it take participants to complete the task?
Vocabulary outcome measures	What measurement tools did the study use to measure the effects of vocabulary learning tasks?
Standardized test	“A test that has been screened for reliability and validity on a large population, and calibrated on the group of test takers for whom it is intended” (García, 2003, p.432)
Researcher designed test	The researchers developed their own test and tested it on a group of participants in a specific study.
Receptive form (RF)	“What does the word sound like” (Nation, 2013, p.49)? “What does the word look like” (Nation, 2013, p.49)? “What parts are recognizable in this word” (Nation, 2013, p.49)?
Receptive meaning (RM)	“What parts are recognizable in this word” (Nation, 2013, p.49)? “What is included in the concept” (Nation, 2013, p.49)? “What others words does this word make us think of” (Nation, 2013, p.49)?

Receptive using (RU)	<p>“In what patterns does the word occur” (Nation, 2013, p.49)?</p> <p>“What words or types of word occur with this one “(Nation, 2013, p.49)?</p> <p>“Where, when, and how often would we meet this word” (Nation, 2013, p.49)?</p>
Productive form (PF)	<p>“How is the word pronounced” (Nation, 2013, p.49)?</p> <p>“How is the word written and spelled” (Nation, 2013, p.49)?</p> <p>“What words parts are needed to express meaning” (Nation, 2013, p.49)?</p>
Productive meaning (PM)	<p>“What word form can be used to express this meaning” (Nation, 2013, p.49)?</p> <p>“What items can be concept refer to” (Nation, 2013, p.49)?</p> <p>“What other words could we use instead of this one” (Nation, 2013, p.49)?</p>
Productive use (PU)	<p>“In what patterns must we use this word” (Nation, 2013, p.49)?</p> <p>“What words or types of words must we use with this one” (Nation, 2013, p.49)?</p> <p>“Where, when and how often can we use this word” (Nation, 2013, p.49)?</p>
Foreign language	<p>Is this study about foreign language learning? What country's language?</p> <p>E.g., A foreign language is “a language that one learns in a classroom which is situated in an unnatural linguistic setting” (Du, 2008, p.10).</p>
Foreign language learning context	<p>It is defined as “the circumstance where the second language learners have little exposure to the L2 outside of the classroom” (Wei, 2019, p.7).</p>
Second language	<p>Is this study about second language learning? What country's language?</p> <p>E.g., A second language is a “language other than one's first language that one studies or acquires in a naturalistic setting” (Du, 2008, pp.10-11)</p>
Second language learning context	<p>It is defined as “the context where English is the official language and as such, it is widely used inside and outside the classroom” (Al Khalidi, 2016, p.18).</p>
First language	<p>What are the participants' first languages (i.e., the language that the participants learn to speak first as a child)?</p>
Sample size	<p>What was the actual sample size in the study?</p>
Education level	<p>What was the educational level of the participants?</p>
Language proficiency level	<p>What was the level of language proficiency of the study participants?</p>
Learning setting	<p>What was the learning setting?</p>
Vocabulary learning tasks	<p>What were the learning tasks involved in the study?</p>

Quantitative research results	What were the main results? Were the effect sizes reported?
Qualitative research findings	What were the main findings?
Need	“Need is moderate when it is imposed by an external agent” (Laufer & Hulstijn, 2001, p.14). “Need is strong when imposed on the learner by him- or herself” (Laufer & Hulstijn, 2001, p.14).
Search	“Search is the attempt to find the meaning of an unknown L2 word or trying to find the L2 word form expressing a concept by consulting a dictionary or another authority” (Laufer & Hulstijn, 2001, p.14).
Evaluation	Evaluation is moderate “when it entails recognizing differences between words, or differences between several senses of a word in a given context” (Laufer & Hulstijn, 2001, p.15). Evaluation is strong when it “requires making a decision about additional words which will combine with the new word in an original sentence or text” (Laufer & Hulstijn, 2001, p.15).
Involvement Load (IL)	The IL refers to “The combination of the presence or absence of the involvement factors Need, Search, and Evaluation” (Laufer & Hulstijn, 2001, p.15).

*References:*

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**Supplementary Table S3.** The summary of 78 reviewed studies: basic information

No.	Study Author (year)	Country or region	Research approaches	N	L1	L2	Language context	Educational level
1	Hulstijn and Laufer (2001)	Israel Netherlands	QUAN	186	Dutch Hebrew	English	Foreign language	Tertiary
2	Hill and Laufer (2003)	Hong Kong	QUAN	96	Chinese	English	Foreign language	Tertiary
3	Beal (2007)	Canada	MIXED	118	French	English	Second language	Tertiary
4	Peters (2007)	Belgium	MIXED	84	Dutch	German	Foreign language	Tertiary
5	Keating (2008)	United States	QUAN	79	English	Spanish	Foreign language	Tertiary
6	Kim (2008)	United States	QUAN	104	Mixed	English	Second language	Mixed
7	Laufer and Girsai (2008)	Israel	QUAN	75	Hebrew	English	Foreign language	Secondary
8	Pulido (2009)	United States	QUAN	35	English	Spanish	Foreign language	Tertiary
9	Xu (2009)	China	MIXED	152	Chinese	English	Foreign language	Tertiary
10	Cheng (2011)	Taiwan	QUAN	111	Chinese	English	Foreign language	Tertiary
11	Rukholm (2011)	Canada	QUAN	66	MIXED	Italian	Foreign language	Tertiary
12	Eckerth and Tavakoli	UK	QUAN	30	MIXED	English	Second	Tertiary

	(2012)						language	
13	Maleki (2012)	Iran	QUAN	80	Hebrew	English	Foreign language	Tertiary
14	Nassaji and Hu (2012)	Canada	QUAN	32	Chinese	English	Second language	Tertiary
15	Peters (2012)	Belgium	QUAN	56	Dutch	English	Foreign language	Tertiary
16	Tsubaki (2012)	Japan	MIXED	301	Janpanese	English	Foreign language	Tertiary
17	Vosoughi (2012)	Iran	QUAN	73	Persian	English	Foreign language	Tertiary
18	Arseven (2013)	Egypt	QUAN	57	Arabic	English	Mixed	Tertiary
19	Cao (2013)	China	QUAN	70	Chinese	English	Foreign language	Tertiary
20	Touti (2013)	Iran	QUAN	64	Persian	English	Foreign language	Extra-curricular language education
21	Mármol and Sánchez-Lafuente (2013)	Spain	QUAN	28	Spanish	English	Foreign language	Primary
22	Rouhi and Mohebbi (2013)	Iran	QUAN	62	Azari-Turkish & Persian (bilingual)	English	Foreign language	Extra-curricular language education
23	Tajeddin and Daraee (2013)	Iran	QUAN	45	Persian	English	Foreign language	Extra-curricular language education
24	Jahangiri and Abilipour (2014)	Iran	QUAN	27	Persian	English	Foreign language	Extra-curricular language education
25	Li (2014)	China	MIXED	81	Chinese	English	Foreign language	Tertiary

26	Sarbazi (2014)	Iran	QUAN	30	Persian	English	Foreign language	Extra-curricular language education
27	Bao (2015)	China	QUAN	153	Chinese	English	Foreign language	Tertiary
28	Pourakbari and Biria (2015)	Iran	QUAN	150	Persian	English	Foreign language	Tertiary
29	Soleimani and Rahmanian (2015)	Iran	QUAN	33	N.A.	English	Foreign language	Extra-curricular language education
30	Wang (2015)	Taiwan	QUAN	64	Chinese	English	Foreign language	Tertiary
31	Ansarin and Bayazidi (2016)	Iran	QUAN	72	MIXED	English	Foreign language	Tertiary
32	Hu and Nassaji (2016)	Taiwan	QUAN	96	Chinese	English	Foreign language	Tertiary
33	Tang and Treffers-Daller (2016)	China	QUAN	185	Chinese	English	Foreign language	Secondary
34	Zou (2016)	China	MIXED	104	Chinese	English	Foreign language	Tertiary
35	Alharbi (2017)	Saudi Arabia	QUAN	129	Arabic	English	Foreign language	Tertiary
36	Dowswell (2017)	United Arab Emirates	QUAN	29	Arabic	English	Foreign language	Tertiary
37	Lee and Pulido (2017)	South Korea	QUAN	135	Korean	English	Foreign language	Secondary
38	Teng (2017)	China	QUAN	90	Chinese	English	Foreign language	Tertiary
39	Qin and Teng (2017)	China	MIXED	60	Chinese	English	Foreign language	Tertiary

40	Rassaei (2017)	Iran	QUAN	88	Farsi	English	Foreign language	Extra-curricular language education
41	Sauer (2016)	Denmark	MIXED	269	MIXED	English	Foreign language	Secondary
42	Snoder (2017)	Sweden	QUAN	59	Swedish	English	Foreign language	Secondary
43	Tahmasbi and Farvardin (2017)	Iran	QUAN	130	Persian	English	Foreign language	Secondary
44	F. Teng (2017)	China	QUAN	77	Chinese	English	Foreign language	Tertiary
45	Tong (2017)	China	QUAN	96	Chinese	English	Foreign language	Tertiary
46	Yang et al. (2017)	China	QUAN	81	Chinese	English	Foreign language	Tertiary
47	Zou (2017)	China	MIXED	147	Chinese	English	Foreign language	Tertiary
48	Alkhudiry (2018)	England	QUAN	40	Arabic	English	Second language	Tertiary
49	Gohar et al. (2018)	Iran	QUAN	90	Persian	English	Foreign language	Extra-curricular language education
50	Huang (2018)	China	MIXED	N.A.	Chinese	English	Foreign language	Tertiary
51	Ong and Zhang (2018)	Singapore	QUAN	154	Chinese	English	Second language	Tertiary
52	Silva and Otwinowska (2018)	Poland	QUAN	38	Polish	English	Foreign language	Primary
53	Alanazi (2019)	USA	MIXED	4	Arabic	English	Second language	Tertiary

54	Alavinia and Rahimi (2019)	Iran	QUAN	125	Persian	English	Foreign language	Tertiary
55	Bao (2019)	China	QUAN	167	Chinese	English	Foreign language	Tertiary
56	Dai et al. (2019)	China	QUAN	70	Chinese	English	Foreign language	Tertiary
57	Kıvrak (2019)	Turkey	QUAN	236	Turkish	English	Foreign language	Tertiary
58	Nguyen and Boers (2019)	Vietnam	QUAN	64	Vietnamese	English	Foreign language	Tertiary
59	Alahmadi and Foltz (2020)	Saudi Arabia	QUAN	61	Arabic	English	Foreign language	Tertiary
60	Alarjani (2020)	Saudi Arabia	QUAN	30	Arabic	English	Foreign language	Tertiary
61	Arabiana et al. (2020)	Philippines	MIXED	6	Cebuano	English	Foreign language	Primary
62	Chiu and Chen (2020)	Taiwan	QUAN	32	Chinese	English	Foreign language	Primary
63	Danilina and Shabunina (2020)	Ukraine	MIXED	19	Ukrainian	English	Foreign language	Tertiary
64	Dongho (2020)	Korea	QUAN	29	Korean	English	Foreign language	Tertiary
65	Kaivanpanah et al. (2020)	Iran	QUAN	120	N.A.	English	Foreign language	Extra-curricular language education
66	Kamali et al. (2020)	Iran	QUAN	66	Farsi	English	Foreign language	Extra-curricular language education
67	Namaziandost et al. (2020)	Iran	QUAN	40	Persian	English	Foreign language	Tertiary

68	Rassaei (2020)	Iran	QUAN	47	Persian	English	Foreign language	Extra-curricular language education
69	Xu and Zhang (2020)	USA	MIXED	22	English	Chinese	Foreign language	Tertiary
70	Yang and Cao (2020)	China	QUAN	144	Chinese	English	Foreign language	Extra-curricular language education
71	Alcaraz-Marmol (2021)	Spain	QUAN	60	Spanish	English	Foreign language	Primary
72	Ansarin and Khabbazi (2021)	Iran	QUAN	204	Persian	English	Foreign language	Tertiary
73	Danilina (2021)	Ukraine	MIXED	29	Ukrainian	English	Foreign language	Tertiary
74	Hanks (2021)	Mixed	QUAN	19	MIXED	English	Foreign language	Extra-curricular language education
75	San Mateo-Valdehita and de Diego (2021)	France	QUAN	308	French	Spanish	Foreign language	Tertiary
76	Silva et al. (2021)	Poland	QUAN	39	Polish or Slavic languages	English	Foreign language	Tertiary
77	Taheri and Golandouz (2021)	Iran	QUAN	78	Persian	English	Foreign language	Extra-curricular language education
78	Teng and Zhang (2021)	China	QUAN	120	Chinese	English	Foreign language	Tertiary

**Supplementary Table S4.** The summary of 78 reviewed studies: the tasks

No.	Study Author (year)	Task	The IL was provided by the original author.	The IL was re- calculated in this review.
1	Hulstijn and Laufer (2001)	1. Reading + glosses (1+0+0) 2. Reading + glosses + fill-in-the blanks (1+0+1) 3. Composition-writing + glosses (1+0+2)	Yes	No
2	Hill and Laufer (2003)	1. Reading + E-dictionary + yes/no questions (1+1+1) 2. Reading + E-dictionary + multiple-choice (1+1+1) 3. Reading + E-dictionary + multiple-choice (1+1+1) 4. Control: Reading (0+0+0)	No	Yes
3	Beal (2007)	1. Reading + glosses +highlighting (1+0+1) 2. Reading + multiple-choice (1+1+1) 3. Reading +dictionary + sentences-writing (1+2+2) 4. Control: Reading (0+0+0)	Yes	Yes
4	Peters (2007)	1. Reading + E-dictionary + comprehension questions with plus relevant words and minus relevant words in incidental learning context (1+1+0) 2. Reading + E-dictionary + comprehension questions with plus relevant words and minus relevant words in intentional learning context (1+1+0)	No	Yes
5	Keating (2008)	1. Reading + glosses + true/false (1+0+0) 2. Reading + glosses (8 target words + 4 distractors) on a separate page + fill-in-the-blanks + true/false (1+0+1) 3. Glosses (8 target words + 4 distractors) + sentences-writing (using the target words) (1+0+2)	Yes	No
6	Kim (2008)	Experiment 1:	Yes	No

		<p>1. Reading + glosses + comprehension questions (1+0+0)</p> <p>2. Reading + glosses (target words + 5 distractors) on a separate page + comprehension questions + fill-in-the-blanks (1+0+1);</p> <p>3. Composition-writing + glosses (1+0+2)</p> <p>Experiment 2:</p> <p>1. Composition-writing + glosses (1+0+2)</p> <p>2. Sentences-writing + glosses (1+0+2)</p>		
7	Laufer and Girsai (2008)	<p>Meaning focused instruction (MFI):</p> <p>1. Reading + comprehension questions (0+0+0) or (1+1+1)</p> <p>2. Reading + open discussion (0+0+0) or (1+1+1)</p> <p>Note: During these activities, some of the target words may have been used by some learners. However, they were not singled out for teaching.</p> <p>Form focused instruction (FFI):</p> <p>1. Reading + multiple-choice (1+1+0)</p> <p>2. Reading + fill-in-the-blanks (1+1+1)</p> <p>Contrastive analysis and translation (CAT)</p> <p>1. Reading + translation (from L2 to L1) (1+1+1)</p> <p>2. Reading + translation (from L1 to L2) (1+1+2)</p>	Yes	No
8	Pulido (2009)	<p>1. Reading + translation (familiar topic) (1+1+0)</p> <p>2. Reading + translation (unfamiliar topic) (1+0+1)</p>	No	Yes
9	Xu (2009)	<p>1. Reading + glosses + multiple-choice (1+0+0)</p> <p>2. Reading + glosses + fill-in-the-blanks (1+0+1)</p> <p>3. Reading + glosses + sentences-writing (1+0+2)</p>	No	Yes
10	Cheng (2011)	<p>1. Reading with target words highlighted + glosses on a separate page (1+0+0)</p> <p>2. Reading + fill-in-the-blank + word list on a separate page + E-</p>	Yes	No

		dictionary (1+1+1) 3. Reading + word list on a separate page + E-dictionary +sentences-writing (1+1+2)		
11	Rukholm (2011)	High IL tasks Task set 1: 1. Reading + discussion with peers + meaning-inferring (2+1+1) 2. Dictionary + sentences-writing (1+1+2) Task set 2: 1. Fill-in-the-blanks + word list (12 target words + 2 distractors) (1+1+1) Task set 3: 1. Composition-writing + word list (5 target words) +meaning-inferring (2+1+2) Low IL tasks 1. Reading + glosses + irrelevant comprehension questions (0+0+0) 2. Reading + glosses + irrelevant true/false questions (0+0+0) 3. Reading + glosses + comprehension questions (L1) + response in L1 sentences (1+0+0) 4. Glosses + irrelevant fill-in-the-blanks (0+0+0) 5. Glosses + comprehension questions (L1 mixed with L2) + response in L1 sentences (1+0+0)	Yes	No
12	Eckerth and Tavakoli (2012)	1. Reading + marginal glosses (1+0+0) 2. Fill-in-the-blanks + word list (target words + definitions) (1+0+1) 3. Reading +marginal glosses + composition-writing (1+0+2)	Yes	No
13	Maleki (2012)	1. Listening + irrelevant multiple-choice + glosses (0+0+0)	Yes	No

		2. Listening + multiple-choice + glosses (1+0+0) 3. Listening + multiple-choice + glosses + sentences-writing (1+0+2)		
14	Nassaji and Hu (2012)	1. Reading + marginal multiple-choice glosses (1+0+1) 2. Reading + meaning-inferring (1+1+1) 3. Reading (i.e., the derivational text) + form-meaning-fit (1+2+2)	Yes	No
15	Peters (2012)	Message-oriented group: 1. Reading + marginal glosses + relevant comprehension questions in L1 (1+0+0) Vocabulary-oriented group: 2. Reading + marginal glosses + translation + multiple-choice (1+0+1)	No	Yes
16	Tsubaki (2012)	1. Multiple-choice + sentences-writing in L1 (1+1+2) 2. Multiple-choice + sentences-copying in L2 (1+1+1)	Yes	Yes
17	Vosoughi (2012)	1. Reading + reading (i.e., other passages with the same target words) + irrelevant comprehension questions (1+1+0) 2. Reading + dictionary work (i.e., copy example sentence, synonym, and pronunciation from dictionary) (1+1+0) 3. Reading + translation (1+1+0)	Yes	Yes
18	Arseven (2013)	1. Reading + multiple-choice + E-dictionary (1+1+0) 2. Reading + multiple-choice + glosses (1+0+0)	No	Yes
19	Cao (2013)	1. Reading + comprehension questions + glosses at the bottom (1+0+0) 2. Reading + reading comprehension questions + glosses (10 target words + 5 distractors) on a separate page + fill-in-the-blanks (1+0+1) 3. Reading + reading comprehension questions + glosses at the	Yes	No

		bottom + sentences-writing (1+0+2)		
20	Touti (2013)	1. Reading + fill-in-the-blanks + glosses on a separate page + comprehension questions (1+0+1) 2. Reading + glosses on a separate page + composition-writing (1+0+2)	No	Yes
21	Mármol and Sánchez-Lafuente (2013)	1. Reading + comprehension questions + glosses (1+0+0) 2. Reading + comprehension questions + fill-in-the-blanks + glosses (18 target words + 9 distractors) (1+0+1) 3. Glosses + sentences-writing (1+0+2) 4. Dictionary + sentences-writing (1+1+2)	Yes	No
22	Rouhi and Mohebbi (2013)	1. Reading + E-glosses (i.e., pictorial & sound features) (1+0+0) 2. Reading + E-glosses (i.e., pictorial features) (1+0+0) 3. Reading + E-glosses (i.e., video features) (1+0+0) 4. Control: Reading + teacher instructions in regular classes (1+0+0)	No	Yes
23	Tajeddin and Daraee (2013)	1. Control: Reading + irrelevant comprehension questions (0+0+0) 2. Message-oriented task: Reading + true/false (1+1+0) 3. Form-oriented task: Reading + meaning-matching (1+1+1)	Yes	No
24	Jahangiri and Abilipour (2014)	Individual 1. Sentences-writing + dictionary (i.e., 3 target words) (1+0+2) 2. Fill-in-the-blanks + dictionary (i.e., 2 target words + 1 distractor) (1+0+1) Collaborative 3. Sentences-writing + dictionary (i.e., 3 target words) (1+0+2) 4. Fill-in-the-blanks + dictionary (i.e., 2 target words + 1 distractor) (1+0+1)	Yes	Yes
25	Li (2014)	1. Reading + irrelevant true/false questions (0+0+0)	Yes	No

		<p>2. Reading + relevant true/false questions (1+1+0)</p> <p>3. Reading + fill-in-the-blanks (i.e., 9 target words + 5 distractors) + relevant true/false questions (1+1+1)</p> <p>4. Reading + sentences-writing (1+1+2)</p>		
26	Sarbazi (2014)	<p>1. Reading + glosses + irrelevant true/false (0+0+0)</p> <p>2. Reading + glosses + true/false (1+0+0)</p> <p>3. Reading + glosses + true/false + composition-writing (1+0+2)</p>	Yes	Yes
27	Bao (2015)	<p>1. Control: Reading + glosses + irrelevant matching (0+0+0)</p> <p>2. Reading + glosses + translation (1+0+0)</p> <p>3. Reading + glosses + fill-in-the-blanks (1+0+1)</p> <p>4. Reading + glosses + segments-combining (1+0+1)</p> <p>5. Reading + glosses + sentences-writing (1+0+2)</p>	Yes	No
28	Pourakbari and Biria (2015)	<p>Receptive vocabulary tasks:</p> <p>1. Reading + glosses + graphic organizers + true/false (1+0+0)</p> <p>2. Reading + glosses + graphic organizers + matching (1+0+1)</p> <p>3. Reading + dictionary + multiple-choice (1+1+1)</p> <p>Productive vocabulary tasks:</p> <p>1. Reading + glosses + short-response (1+0+0)</p> <p>2. Reading + glosses + graphic organizers + fill-in-the-blanks (1+0+1)</p> <p>3. Reading + glosses + sentence-writing (1+0+2)</p>	Yes	No
29	Soleimani and Rahmanian (2015)	<p>1. Reading + glosses in L2 + fill-in-the-blanks + irrelevant comprehension questions (1+0+1)</p> <p>2. Reading + glosses in L1 + irrelevant comprehension questions + sentences-writing (1+0+2)</p> <p>3. Reading + glosses in L1 + multiple-choice (1+0+0)</p>	Yes	No
30	Wang (2015)	<p>1. Reading (0+0+0)</p> <p>2. Reading + glosses (1+0+0)</p>	Yes	Yes

		<p>3. Reading + glosses + fill-in-the-blanks (1+0+1)</p> <p>4. Reading + glosses + fill-in-the-blanks + sentences-writing (1+0+2)</p> <p>Note: The author calculated the SUM of different tasks as accumulated loads.</p> <p>Task 1 + Task 2 = 1</p> <p>Task 1 + Task 2 + Task 3 = 3</p> <p>Task 1 + Task 2 + Task 3 + Task 4 = 5</p>		
31	Ansarin and Bayazidi (2016)	<p>Task type was used as a within-subject factor</p> <p>1. Glosses in a mini-dictionary format (18 target words + 3 distractors) + multiple-choice * 3 sets (1+0+0)</p> <p>2. Glosses in a mini-dictionary format (18 target words + 3 distractors) + fill-in-the-blanks * 3 sets (1+0+1)</p> <p>3. Glosses in a mini-dictionary format (18 target words + 3 distractors) + sentences-writing (1+0+2)</p>	Yes	Yes
32	Hu and Nassaji (2016)	<p>1. Reading + multiple-choice (1+1+0)</p> <p>2. Reading + multiple-choice (definition) (1+1+0)</p> <p>3. Reading + glosses on a separate page (14 target words + extra distractors) + fill-in-the-blanks (1+0+1)</p> <p>4. Reading + sentences-rewording (1+1+1)</p>	Yes	Yes
33	Tang and Treffers-Daller (2016)	<p>1. Reading + glosses in the text (0+0+0)</p> <p>2. Reading + glosses in the text + irrelevant multiple-choice (0+0+0)</p> <p>3. Reading + glosses in the end + multiple-choice (1+0+0)</p> <p>4. Reading + marginal glosses with multiple meanings + multiple-choice (1+0+1)</p> <p>5. Reading + glosses in the end with multiple meanings + multiple-choice (1+0+1)</p>	Yes	Yes

		6. Reading + marginal glosses with multiple meanings + sentences-writing (1+0+2)		
34	Zou (2016)	1. Reading + dictionary use + multiple choice (1+1+0) 2. Reading + meaning-inferring + irrelevant multiple choice (1+1+0)	No	Yes
35	Alharbi (2017)	1. Teacher-fronted/non-corpus assisted CAT (contrastive analysis and translation) condition +L2 to L1 translation (1+1+1) 2. Teacher-fronted/ non-corpus assisted CAT condition +L1 to L2 translation (1+1+2) 3. Corpus-assisted CAT + L2 to L1 translation (1+2+1) 4. Corpus-assisted CAT + L1 to L2 translation (1+2+2) 5. Corpus-assisted non-CAT condition + multiple-choice (1+1+1) 6. Corpus-assisted non-CAT condition + fill-in-the-blanks (1+1+1)	Yes	Yes
36	Dowswell (2017)	1. Vocabulary Self-Collection Strategy Plus (VSS+) + wiki (2+2+2) 2. Control: regular course (0+0+0)	No	Yes
37	Lee and Pulido (2017)	Reading (passage 1) + interest rating scale + irrelevant multiple-choice in L1 + reading (passage 2) + interest rating scale + irrelevant multiple-choice in L1 + intervening number task (0+0+0)	No	Yes
38	Teng (2017)	1. Reading + glosses (1+0+0) 2. Reading + word list (target words + distracters) + fill-in-the-blanks (1+0+1) 3. Reading + glosses + composition-writing (1+0+2)	Yes	No

39	Qin and Teng (2017)	<p>1. Reading + glosses (1+0+0)</p> <p>2. Reading + word list (target words + distracters) + fill-in-the-blanks (1+0+1)</p> <p>3. Reading + glosses + composition-writing (1+0+2)</p>	Yes	No
40	Rassaei (2017)	<p>Summarizing condition:</p> <p>1. [Output instruction session: Reading + intervention (i.e., Teacher taught summarization rules)] + [Output activity session: Reading + comprehension questions in L1 + Task 1 (i.e., Glosses + summaries-writing)] (1+0+2)</p> <p>Predicting condition:</p> <p>2. [Output instruction session: Reading + intervention (i.e., Teacher taught prediction strategy)] + [Output activity session: Reading + comprehension questions in L1 + Task 2 (i.e., Glosses + predictions-writing)] (1+0+2)</p> <p>Questioning/answering condition:</p> <p>3. [Output instruction session: Reading + intervention (i.e., Teacher taught comprehension question generating skills)] + [Output activity session: Reading + comprehension questions in L1 + Task 3 (i.e., Glosses + comprehension questions and answers-writing)] (1+0+2)</p> <p>Control:</p> <p>4. [No output instruction session] + [Activity session: Reading + comprehension questions in L1 + Task 4 (i.e., True/false)] (1+0+0)</p>	No	Yes
41	Sauer (2016)	<p>1. Reading + bold-printing + multiple-choice &amp; true/false &amp; short-response + irrelevant post-reading exercises (1+0+1)</p> <p>2. Reading + glosses + multiple-choice &amp; true/false &amp; short-</p>	No	Yes

		<p>response + irrelevant post-reading exercises (1+0+1)</p> <p>3. Reading + bold-printing &amp; glosses + multiple-choice &amp; true/false &amp; short-response + irrelevant post-reading exercises (1+0+1)</p> <p>4. Control: Reading + multiple-choice &amp; true/false &amp; short-response + irrelevant post-reading exercises (1+1+1)</p>		
42	Snoder (2017)	<p>1. Listening + fill-in-the-blanks + glosses (1+0+1)</p> <p>2. Listening + sentences-writing + glosses (1+0+2)</p> <p>3. Listening + fill-in-the-blanks + L1 glosses + dictionary (1+1+1)</p> <p>4. Listening + sentences-writing + L1 glosses + dictionary (1+1+2)</p>	Yes	No
43	Tahmasbi and Farvardin (2017)	<p>1. [Reading task: Reading + glosses in text] + [Task 1: Dictionary + composition-writing (1+1+2)]</p> <p>2. [Reading task: Reading + glosses in text] + [Task 2: Dictionary + sentences-writing (1+1+2)]</p> <p>3. [Reading task: Reading + glosses in text] + [Task 3: Segments-combining (1+0+1)]</p> <p>4. [Reading task: Reading + glosses in text] + [Task 4: Dictionary + translation (1+1+0)]</p> <p>5. [Reading task: Reading + glosses in text] + [Task 4: Fill-in-the-blanks + word list (1+0+1)]</p> <p>6. Control: [Reading task: Reading + glosses in text] + [Task 6: Irrelevant matching (0+0+0)]</p>	Yes	Yes
44	F. Teng (2017)	<p>1. Reading + dictionary (1+1+0)</p> <p>2. Reading + dictionary + fill-in-the-blanks + word list (1+1+1)</p> <p>3. Reading + dictionary + composition-writing (1+1+2)</p>	Yes	No
45	Tong (2017)	<p>1. Reading + glosses + translation (1+0+0)</p>	No	Yes

		<p>2. Reading + glosses in multiple-choice format + translation (1+0+1)</p> <p>3. Reading + glosses in multiple-choice format + short-response (1+0+1)</p> <p>4. Reading + glosses + short-response (1+0+0)</p>		
46	Yang et al. (2017)	<p>1. Reading + glosses + irrelevant multiple-choice + sentences-writing (1+0+2)</p> <p>2. Reading + glosses + irrelevant multiple-choice + fill-in-the-blanks + glosses (8 target words + 4 distracters) (1+0+1)</p> <p>3. Reading + glosses + irrelevant multiple-choice + irrelevant short-response (0+0+0)</p> <p>4. Control: Normal class (0+0+0)</p>	Yes	Yes
47	Zou (2017)	<p>1. Fill-in-the-blanks in a reading text + glosses (1+0+1)</p> <p>2. Sentences-writing + glosses (1+0+2)</p> <p>3. Composition-writing + glosses (1+0+2)</p>	Yes	No
48	Alkhudiry (2018)	<p>Elaboration task:</p> <p>1. Reading + glosses + multiple-choice + sentences-writing (1+0+2)</p> <p>2. Reading + glosses + multiple-choice + sentences-writing (distractor version that did not contain non-words) (0+0+0)</p>	Yes	Yes
49	Gohar et al. (2018)	<p>1. Glosses + sentences-writing (1+0+2)</p> <p>2. Glosses + composition-writing (1+0+2)</p> <p>3. Reading + glosses + short-response (1+0+0)</p>	Yes	Yes
50	Huang (2018)	<p>1. Reading + irrelevant comprehension questions + glosses + true/false (1+0+0)</p> <p>2. Reading + irrelevant comprehension questions + dictionary (1+1+0)</p> <p>3. Reading + irrelevant comprehension questions + glosses +</p>	Yes	No

		<p>segments-combination (1+0+1)</p> <p>4. Reading + irrelevant comprehension questions + dictionary + fill-in-the-blanks (1+1+1)</p> <p>5. Reading + irrelevant comprehension questions + glosses + sentences-writing (1+0+2)</p> <p>6. Reading + irrelevant comprehension questions + dictionary + sentences-writing (1+1+2)</p>		
51	Ong and Zhang (2018)	<p>Code-switched (CS) reading task: L1 text with L2 target words</p> <p>1. Reading + meaning-inferring (1+1+0)</p> <p>Control: L2 text</p> <p>2. Reading + meaning-inferring (1+1+0)</p>	Yes	Yes
52	Silva and Otwinowska (2018)	<p>1. Reading + glosses + sentences-writing (1+0+2)</p> <p>2. Reading + glosses + [multiple-choice comprehension questions (L1)] + [wordlist+ matching (i.e., pictures)] (1+0+1)</p> <p>3. Reading + glosses in multiple-choice format (L1) + [multiple-choice comprehension questions (L1)] + [creating associations (i.e., L1 or L2)] (1+1+1)</p>	Yes	Yes
53	Alanazi (2019)	<p>1. Reading + glosses + sentences-writing (1+0+1)</p> <p>2. Reading + glosses + fill-in-the-blanks (i.e., 6 target words + 2 distractors) (1+0+2)</p>	Yes	No
54	Alavinia and Rahimi (2019)	<p>1. Reading + glosses in the text + dictionary + sentences-writing (1+0+2)</p> <p>2. Reading + glosses in the text + definition (1+0+0)</p> <p>3. Reading + glosses in the text + fill-in-the-blanks (1+0+1)</p> <p>4. Reading + glosses in the text + segments combination (1+0+1)</p> <p>5. Control: Reading + glosses + irrelevant matching (0+0+0)</p>	Yes	Yes
55	Bao (2019)	<p>1. Reading + glosses in the text + matching (1+0+1)</p> <p>2. Reading + glosses in the text + fill-in-the-blanks (1+0+1)</p>	Yes	No

		3. Reading + glosses in the text + multiple-choice (1+0+1) 4. Reading + glosses in the text + segments combination (1+0+1)		
56	Dai et al. (2019)	1. Reading [E-dictionary + conceptual metaphor information (i.e., salient) + 7-10 example sentences] + multiple-choice (1+1+1) 2. Reading [E-dictionary + conceptual metaphor information (i.e., not salient) + 1 example sentence] + multiple-choice (1+2+1) 3. Control: Reading [E-dictionary + 1 example sentence] + multiple-choice (1+2+1)	Yes	No
57	Kıvrak (2019)	1. Control: Brief irrelevant discussion + reading + irrelevant comprehension questions & answer check + irrelevant peer-discussions (0+0+0) 2. Control: Brief irrelevant discussion + watching (i.e., video podcasts) + irrelevant comprehension questions & answer check + irrelevant peer-discussions (0+0+0) 3. Brief irrelevant discussion + fill-in-the-blanks in a reading text + glosses + answer check + irrelevant comprehension questions & answer check + irrelevant peer-discussions (1+0+1) 4. Brief irrelevant discussion + watching (i.e., video podcasts) + glosses + fill-in-the-blanks in selected sentences + answer check + 2nd watching + irrelevant comprehension questions & answer check + irrelevant peer-discussions (1+0+1) 5. Brief irrelevant discussion + reading + glosses + target word in bold print + less irrelevant comprehension questions & answer check + sentences-writing + answer check + irrelevant peer-discussions (1+0+2) 6. Brief irrelevant discussion + glosses + watching (i.e., video	Yes	No

		podcasts) + 2nd watching + less irrelevant comprehension questions & answer check + sentences-writing + answer check + irrelevant peer-discussions (1+0+2)		
58	Nguyen and Boers (2019)	1. Watching (i.e., TED Talk) + note-taking + summarizing (i.e., orally) + 2nd watching + yes/no (i.e., without access to TED Talk) (1+0+2) 2. Watching (i.e., TED Talk) + note-taking + revise and organize note + 2nd watching + yes/no (i.e., without access to TED Talk) (1+0+1)	No	Yes
59	Alahmadi and Foltz (2020)	1. Reading + meaning-infering (1+1+0) 2. Reading + dictionary (1+1+0)	No	Yes
60	Alarjani (2020)	1. Glosses + sentences-writing (1+0+2) 2. Control: Glosses (1+0+0)	No	Yes
61	Arabiana et al. (2020)	1. Watching + various ungraded tasks (IL=N.A.)	No	No
62	Chiu and Chen (2020)	Traditional face-to-face storytelling session: 1. Listening + reading (i.e., the Keynote) + watching (i.e., the scaffolds from the storyteller's face or body) + word-meaning focused comprehension questions + summarizing (i.e., peer and group discussions) (1+0+2) Computer-mediated communication (CMC) storytelling session: 2. Watching (i.e., the picture book and animation) + listening + word-meaning focused comprehension questions + summarizing (i.e., peer and group discussions) (1+0+2)	Yes	Yes
63	Danilina and Shabunina (2020)	Intentional: 1. Attending vocabulary lesson (i.e., in class) + composition-writing (i.e., at home) (1+0+2) Incidental: 2. Watching (i.e., online video at home) + irrelevant	Yes	No

		composition-writing (i.e., at home) (1+1+2)		
64	Dongho (2020)	<p>1. Reading + target words in bold + dictionary + 5 multiple-choice comprehension questions + 5 multiple-choice vocabulary questions (1+1+0)</p> <p>2. Fill-in-the-blanks (i.e., in text) + glosses + 5 multiple-choice comprehension questions (1+0+1)</p> <p>3. Fill-in-the-blanks (i.e., in text) + word list + dictionary (1+1+1)</p>	Yes	No
65	Kaivanpanah et al. (2020)	<p>Input tasks:</p> <p>1. Reading + dictionary + comprehension questions (1+1+1)</p> <p>2. Reading + glosses + irrelevant comprehension questions (0+0+0)</p> <p>Output tasks:</p> <p>3. Reading + fill-in-the-blanks (i.e., in the text) + glosses (10 target words + 5 distractors) on a separate page + comprehension questions (1+0+1)</p> <p>4. Reading + glosses + composition-writing (1+0+2)</p> <p>Phase 1: Task 1 vs. Task 4</p> <p>Phase 2: Task 1 vs. Task 3</p> <p>Phase 3: Task 2 vs. Task 3</p>	Yes	No
66	Kamali et al. (2020)	<p>1. Reading + glosses (i.e., in the text) + summarizing (i.e., orally) (1+0+2)</p> <p>2. Reading + glosses (i.e., in the text) + summarizing (i.e., writing) (1+0+2)</p> <p>3. Control: Reading + glosses (i.e., in the text) + true/false (1+0+0)</p>	Yes	No
67	Namaziandost et al. (2020)	<p>1. Reading + dictionary + comprehension questions (1+1+1)</p> <p>2. Fill-in-the-blanks in the text + glosses (1+0+1)</p>	Yes	Yes

68	Rassaei (2020)	1. E-reading + E-dynamic glosses (1+1+1) 2. E-reading + glosses (1+0+0) 3. Control: E-reading (0+0+0)	Yes	No
69	Xu and Zhang (2020)	1. Meaning-inferring (1+1+0) 2. Meaning-inferring + context (i.e., sentences) (1+1+1)	No	Yes
70	Yang and Cao (2020)	1. Reading + comprehension questions + graphic organizer + irrelevant glosses (0+0+0) 2. Reading + comprehension questions + graphic organizer + glosses (1+0+0) 3. Fill-in-the-blanks (i.e., in the text) + irrelevant comprehension questions + glosses (8 target words +2 distractors) (1+0+1) 4. Fill-in-the-blanks (i.e., in the text) + irrelevant comprehension questions + dictionary (1+1+1) 5. Reading + irrelevant comprehension questions+ glosses + sentences-writing (1+0+2)	Yes	No
71	Alcaraz-Marmol (2021)	1. Reading + meaning inferring + dynamic glosses (1+1+1) 2. Reading + glosses (1+0+0) 3. Control: Reading (0+0+0)	No	Yes
72	Ansarin and Khabbazi (2021)	1. Listening + multiple-choice comprehension questions + sentences-writing + glosses (1+0+2) 2. Listening + multiple-choice comprehension questions + fill-in-the-blanks (i.e., in the text) + glosses (20 target words + 4 distractors) (1+0+1) 3. Listening + multiple-choice comprehension questions + summarizing (i.e., writing) (0+0+0)	Yes	No
73	Danilina (2021)	Incidental: 1. Composition-writing + reading & find collocations + peer discussion + fill-in-the-blanks (1+2+0)	Yes	Yes

		<p>Intentional:</p> <p>2. Reading &amp; find collocations + peer discussion + composition-writing (1+2+2)</p> <p>3. Translation (i.e., an artificial need) + reading &amp; find collocations + memorizing (1+1+1)</p>		
74	Hanks (2021)	<p>1. Virtual, pre-recorded Zoom class session (i.e., vocabulary teaching) + multiple-choice (1+0+1)</p> <p>2. Virtual, pre-recorded Zoom class session (i.e., vocabulary teaching) + fill-in-the-blank (1+0+1)</p> <p>3. Virtual, pre-recorded Zoom class session (i.e., vocabulary teaching) + sentences-writing (1+0+2)</p>	No	Yes
75	San Mateo-Valdehita and de Diego (2021)	<p>1. Multiple-choice + glosses (1+0+0)</p> <p>2. Fill-in-the-blanks + glosses (1+0+1)</p> <p>3. Sentence-writing + glosses (1+0+2)</p>	Yes	No
76	Silva et al. (2021)	<p>1. Glosses + sentences-writing (1+0+2)</p> <p>2. Glosses + composition-writing (1+0+2)</p>	No	Yes
77	Taheri and Golandouz (2021)	<p>1. Reading + glosses + sentences-writing without the original text (1+0+2)</p> <p>2. Reading + glosses + summarizing without the original text (1+0+2)</p> <p>3. Reading (i.e., incomplete stories) + glosses + making predictions (1+0+2)</p>	Yes	No
78	Teng and Zhang (2021)	<p>1. Reading + glosses (1+0+0)</p> <p>2. Reading + fill-in-the-blanks + glosses (i.e., target words + distracters) (1+0+1)</p> <p>3. Reading + glosses + composition writing (1+0+2)</p> <p>4. Reading + glosses+ E-dictionary + composition writing</p>	Yes	Yes

	(1+1+2)		
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Note: The references listed below are in the same order as Table S3 and Table S4.

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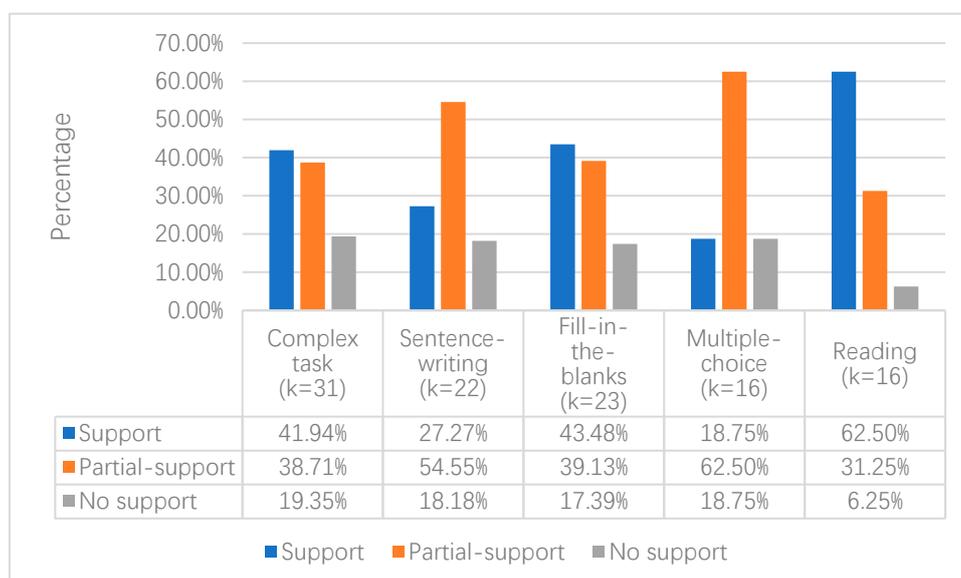
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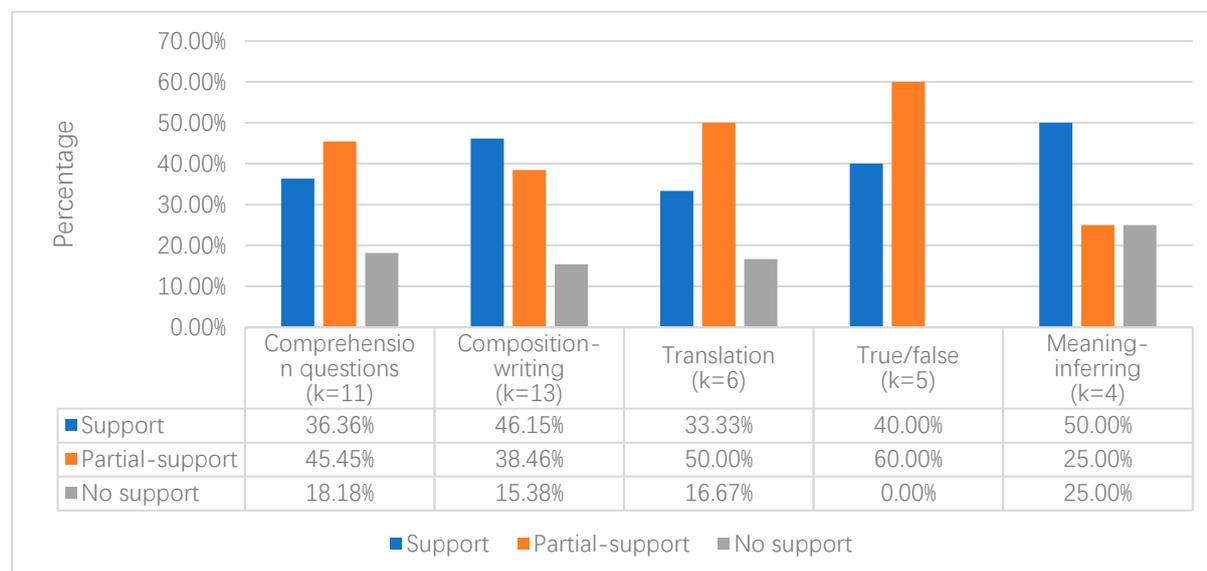
**Supplementary Table S5.** Specific scales for rating studies

WoE Scale	Level	Description
Soundness	High	The research methods and results are described clearly and in detail. The authors explain their results/findings clearly and transparently.
	Medium	The research methods and results are described satisfactorily. The results explained by the authors are generally satisfactory.
	Low	The description of research methods and results is vague. The results of the study explained by the authors are confusing
Appropriateness	High	The methodology of the selected study is consistent with the review questions.
	Medium	The methodology of the selected study is partially consistent with the review questions.
	Low	The methodology of the selected study is not consistent with the review questions.
Relevance	High	The selected studies provide sufficient information to answer the review questions.
	Medium	The selected studies provide some information that can be combined and/or synthesized to answer the review questions.
	Low	The selected studies do not provide any information that could be combined and/ or synthesized to answer the review question.

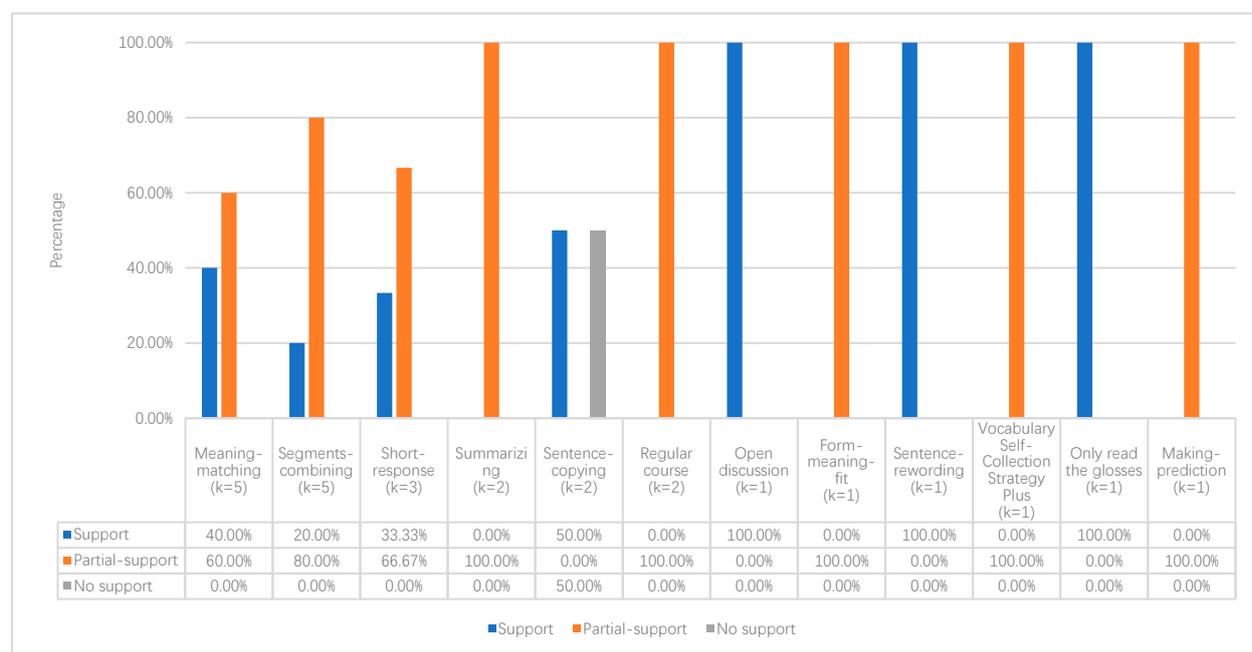
**Supplementary Figure S2. High Frequency Task Types and the ILH Support in English as the Target Language Studies**



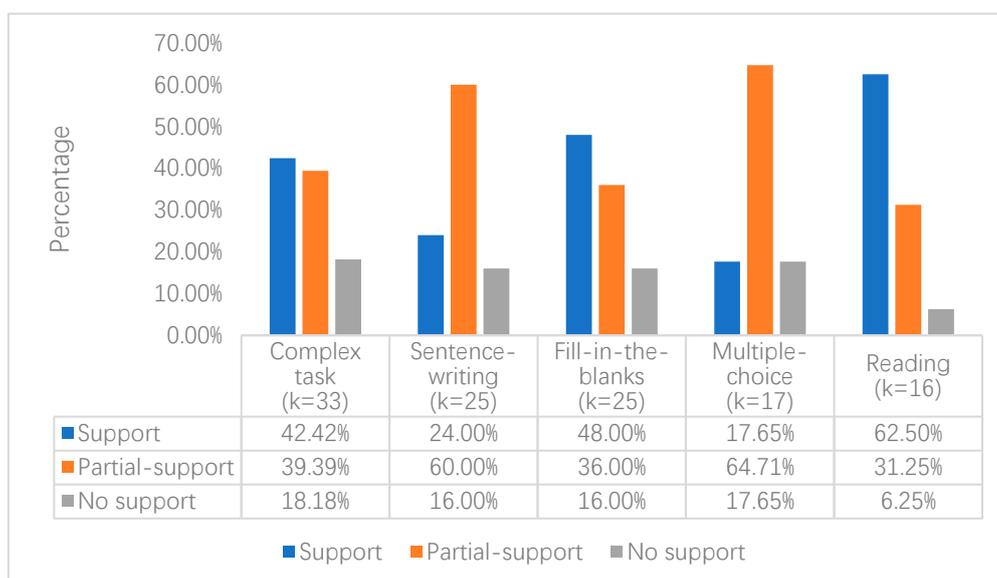
**Supplementary Figure S3.** Medium frequency task types and the ILH support in English as the target language studies



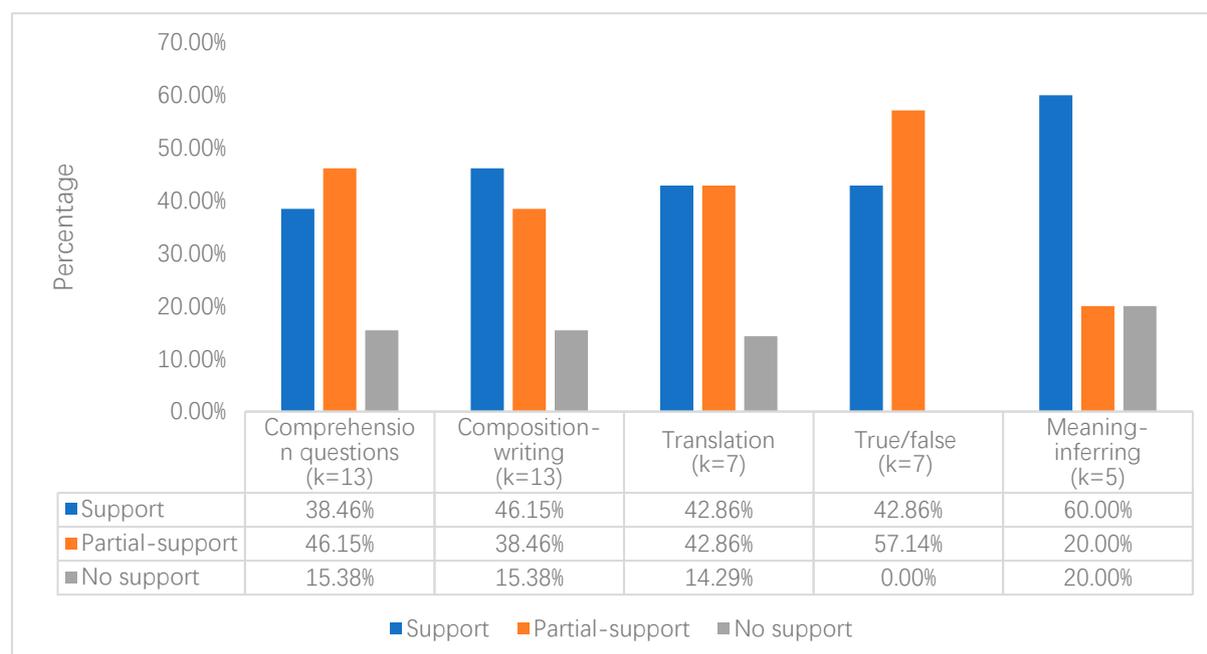
**Supplementary Figure S4. Low frequency task types and the ILH support in English as the target language studies**



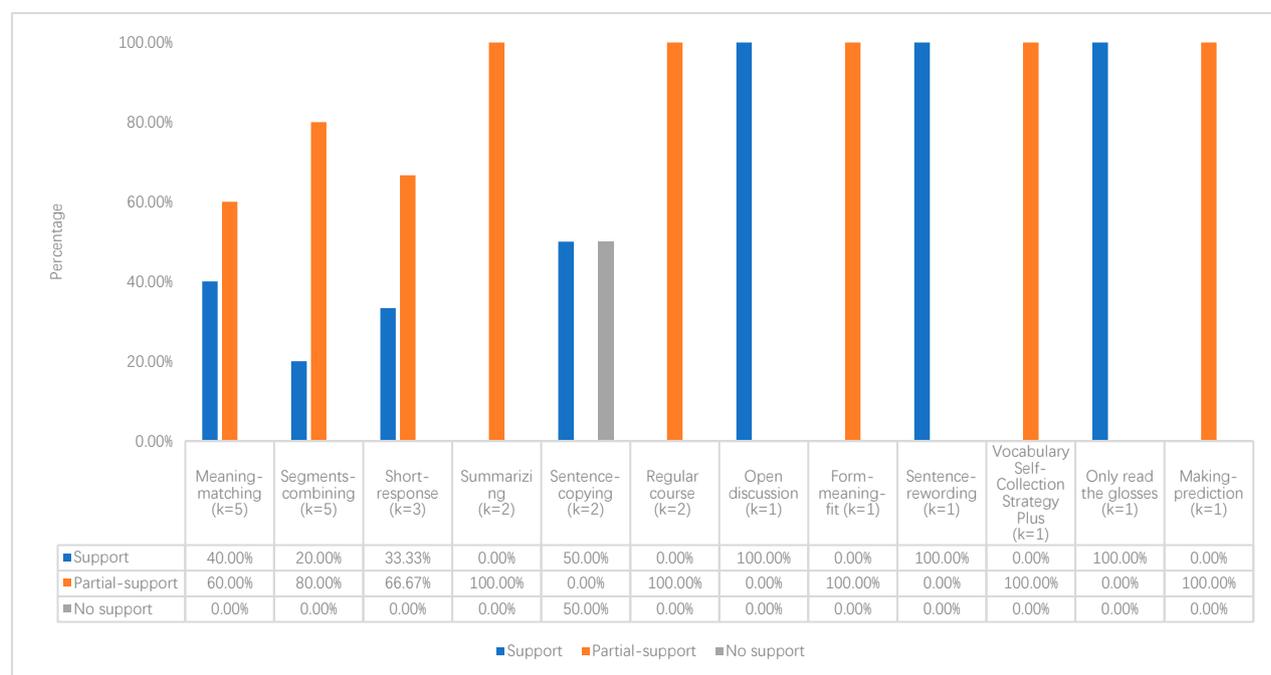
**Supplementary Figure S5.** High frequency task types and the ILH support in studies (any language as the target language)



**Supplementary Figure S6.** Medium frequency task types and the ILH support in studies (any language as the target language)



**Supplementary Figure S7.** Low frequency task types and the ILH support in studies (any language as the target language)



**Supplementary Table S6.** Prevalence of task types (language other than English as the target language)

Task type	Tasks	
	n	%
Complex task	5	23.81
Sentence-writing	3	14.29
Fill-in-the-blanks	3	14.29
Comprehension questions	3	14.29
Translation	2	9.52
True/false	2	9.52
Meaning-inferring	2	9.52
Multiple-choice	1	4.76
Total	21	100.00

Note: The task types were given in descending order.

In general, six empirical studies had used the ILH as a framework to study non-English vocabulary learning. The targeted languages were Spanish, Italian, German, and Chinese. A total of 21 different tasks were scattered across eight types (See Table S6).

Similar to English as the target language studies, the most common task type of other language as target language studies was the complex task type, combining several individual tasks into one task. A total of five different complex tasks were found in two studies. One study showed that complex tasks designed for Italian vocabulary learning provided support for the predictability of the ILH (Rukholm, 2011). The other study found that complex tasks designed for Spanish vocabulary learning provided only partial support for the predictability of the ILH (Keating, 2008).

A total of three different sentence-writing tasks were scattered among three studies. All of the three studies showed that sentence-writing tasks provided at least some support for the predictability of the ILH. In Rukholm (2011)'s study of Italian vocabulary learning, the sentence writing task provided support for the ILH. Two other studies provided partial support

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for the predictability of the ILH in Spanish vocabulary learning (Keating, 2008; San Mateo-Valdehita & de Diego, 2021). Regarding fill-in-the-blanks task type, a total of three different tasks were found in two studies. Similarly, the tasks designed for Italian vocabulary learning provided support for the ILH (Rukholm, 2011), and the task designed for Spanish vocabulary learning provided partial support for the ILH (San Mateo-Valdehita & de Diego, 2021). Three different comprehension questions tasks were found in two studies. The study which investigated German vocabulary learning showed partial support for the ILH (Peters, 2007). The study which investigated Italian vocabulary learning showed support of the ILH (Rukholm, 2011).

Two different translation tasks were compared in one study which focused on Spanish vocabulary learning. The results corroborated the assumption of the ILH that that different specific tasks with the same IL have the same vocabulary learning effect when other factors are equal (Laufer & Hulstijn, 2001). Two different true/false tasks were found in two studies. Similar to the complex tasks, the true/false task designed for Italian vocabulary learning provided support for the ILH, while the true/false task designed for Spanish vocabulary learning partially supported the ILH (Keating, 2008; Rukholm, 2011). Two different meaning-infering tasks were compared in one study which focused on Chinese vocabulary learning (Xu & Zhang, 2020). In this study, researchers compare two meaning-infering tasks with different ILs. The meaning-infering task with higher IL was found more effective in Chinese vocabulary learning than the meaning-infering task with lower IL. The results corroborated the second assumption of the ILH that "Other factors being equal, words which are processed with higher involvement load will be retained better than words which are processed with lower

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involvement load” (Laufer & Hulstijn, 2001, p. 15). Only one multiple-choice task was found in one study. The results showed partial support for the ILH in the context of Spanish vocabulary learning (San Mateo-Valdehita & de Diego, 2021).

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