



BILEX

Standard values for the greater Zurich area

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BILEX

Standard values for the greater Zurich area

The BILEX

BILEX (Gampe et al., 2018) is a freely accessible, multilingual language test developed at the University of Zurich (for further information on implementation and installation, see <https://github.com/joannarut/BILEX>). BILEX can be used to assess the receptive vocabulary of children aged two to five in 38 different languages. A list of the languages currently available is provided at the end of this document. For multilingual children, vocabulary can be assessed separately for each language and across multiple languages, without transfer effects. In addition, BILEX allows for the calculation of conceptual vocabulary, i.e. an assessment of vocabulary that is understood in one, the other or both languages. BILEX is designed to be playful and can be administered by professionals without knowledge of the languages tested.

BILEX is a child-friendly, computer-based test based on the PsychoPy software (Pierce et al., 2021). A touchscreen laptop and the installation of PsychoPy are required to perform BILEX. During the test, six images are shown on the screen while a female voice names one of the images (see Figure 1). The child is asked to tap on this image on the touchscreen. If the child does not respond within 7 seconds, the next six images are automatically displayed. The child is given instructions, and two familiarisation trials are carried out. This is followed by 48 test trials. The children can achieve a maximum score of 48 per language version, a maximum total vocabulary of 96, and a maximum conceptual vocabulary of 48. The BILEX can be performed multiple times in different languages. We recommend a break of 20 to 30 minutes between performing different language versions with one child.

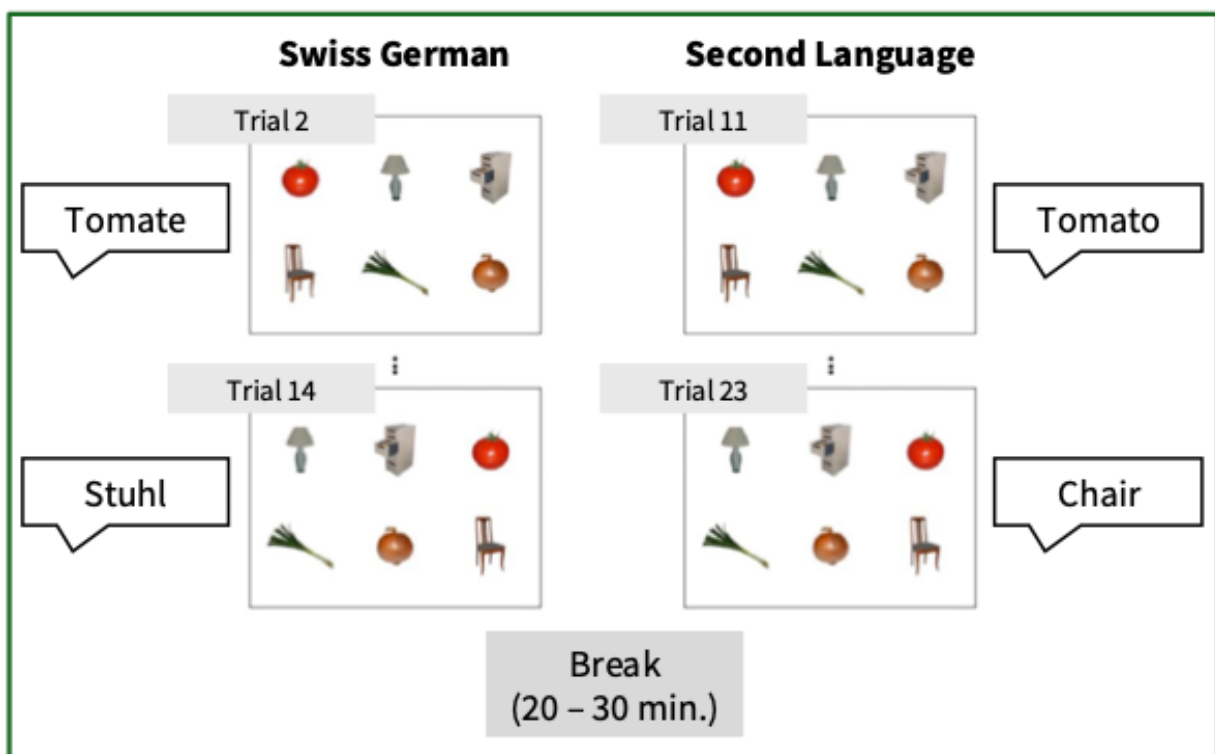


Figure 1: Exemplary representation of BILEX trials in different language versions.

Norming Sample

The standard values are based on data from a total of 876 children from the greater Zurich area aged 3 (monolingual: 55 boys and 52 girls; multilingual: 65 boys and 67 girls) and 4 (monolingual: 145 boys and 149 girls; multilingual: 174 boys and 162 girls).

Monolingual children had a language input of 90% of their waking hours in Swiss German (cumulative over their entire lifespan). Multilingual children received language input of at least 20% in Swiss German and a second language. The language input in any other language was less than 10% for all children. All children were between 3 and 4 years old. The socio-economic status of the children was generally high, see Figure 2. The multilingual children had various second languages: Albanian ($n = 4$), Bosnian ($n = 1$), Czech ($n = 7$), Farsi ($n = 1$), Georgian ($n = 1$), Italian ($n = 102$), Moroccan ($n = 1$), Romansh ($n = 6$), Serbian ($n = 11$), Somali ($n = 1$), Turkish ($n = 7$), English ($n = 97$), Danish ($n = 1$), Finnish ($n = 2$), Greek ($n = 7$), Japanese ($n = 2$), Polish ($n = 3$), Croatian ($n = 8$), Spanish ($n = 72$), Vietnamese ($n = 2$), Arabic ($n = 4$), Bulgarian ($n = 1$), Dutch ($n = 12$), Flemish ($n = 1$), Mandarin ($n = 2$), Portuguese ($n = 19$), Romanian ($n = 1$), Slovak ($n = 3$), Swedish ($n = 6$), French ($n = 73$), Hungarian ($n = 8$), Macedonian ($n = 3$), Russian ($n = 5$), Slovenian ($n = 3$) and Tibetan ($n = 1$).

The data was collected between May 2015 and August 2025 in the study rooms of the research unit Developmental Psychology: Infancy and Childhood, as well as in daycare centres, playgroups, outdoor swimming pools, community centres, libraries and gyms in the greater Zurich area. New data is continuously being collected, and the standard values are adjusted accordingly.

Highest Level of Education	Monolingual Children	Multilingual Children
No school leaving certificate / Compulsory schooling	0.78%	2.03%
Basic vocational training / Apprenticeship (EBA, EFZ)	6.53%	7.88%
Grammar school (Berufsmaturität, Fachmaturität, Gymnasiale Maturität, Fachmittelausweis)	16.45%	13.51%
Higher vocational education (Höhere Fachprüfung HFP, Berufsprüfung BP, Diplom HF)	46.48%	39.41%
University degree (Bachelor, Master, PhD)	29.76%	37.16%
Household income (before taxes)		
Less than CHF 2'000	1.39%	7.53%
CHF 2'000 - CHF 4'000	4.86%	5.38%
CHF 4'000 - CHF 6'000	15.28%	12.37%
CHF 6'000 - CHF 8'000	23.61%	13.98%
CHF 8'000 - CHF 10'000	20.83%	15.59%
CHF 10'000 - CHF 12'000	18.06%	13.98%
CHF 12'000 - CHF 14'000	8.33%	6.45%
CHF 14'000 - CHF 16'000	4.86%	19.35%
More than CHF 16'000	2.78%	5.38%

Figure 2: Average highest level of education attained by both primary caregivers and monthly household income (before tax) based on responses from $N = 827$ (level of education) and $N = 330$ (income) caregivers.

Standard Values

The standard values are reported separately for all 3- and 4-year-old children, as well as for monolingual/multilingual and male and female children. Since the data are not normally distributed, the percentile ranks per BILEX score are given (see tables in the appendix).

Complete data are not available for all children (e.g., data are missing for some multilingual children in one language). To obtain the maximum sample size, these data were used anyway and the different group sizes and highest educational qualifications of the parents were specified accordingly.

All 3-year-olds

Figure 3 and Tables 1 and 2 (in the appendix) report the percentile ranks for Swiss German and conceptual vocabulary for all 3-year-olds, based on $N = 240$ children aged $M = 3.31$ years ($SD = 0.24$).

Highest level of education	% of parents
No school leaving certificate / Compulsory schooling	3.78
Basic vocational training / Apprenticeship	5.88
Grammar school	14.29
Higher vocational education	26.05
University degree	50.00

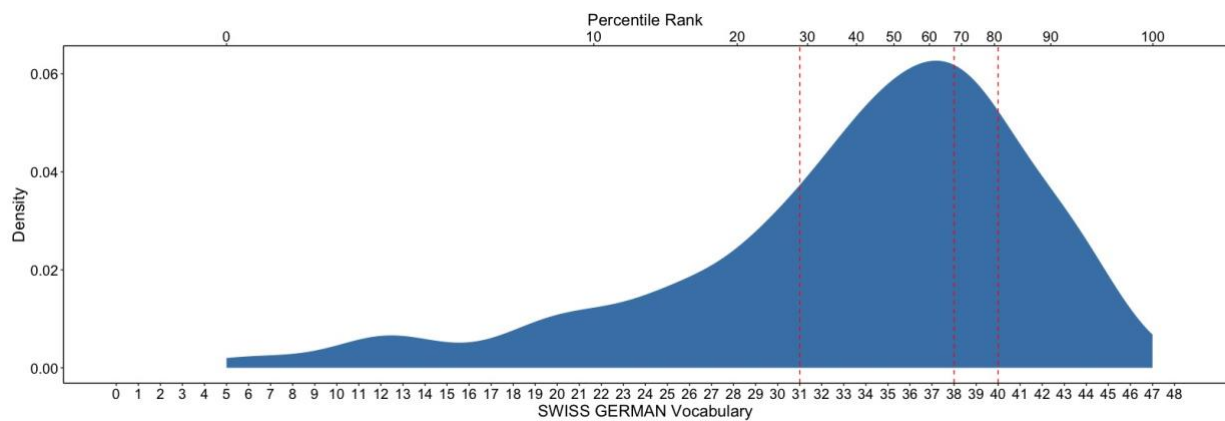


Figure 3: Distribution of Swiss German vocabulary. The red lines correspond to the 25%, 50%, and 75% percentiles.

All 4-year-olds

Figure 4 and Tables 3 and 4 (in the appendix) report the percentile ranks for Swiss German and conceptual vocabulary for all 4-year-olds, based on $N = 632$ children aged $M = 4.20$ years ($SD = 0.95$).

Highest level of education	% of parents
No school leaving certificate / Compulsory schooling	1.37
Basic vocational training / Apprenticeship	12.16
Grammar school	23.63
Higher vocational education	42.47
University degree	20.38

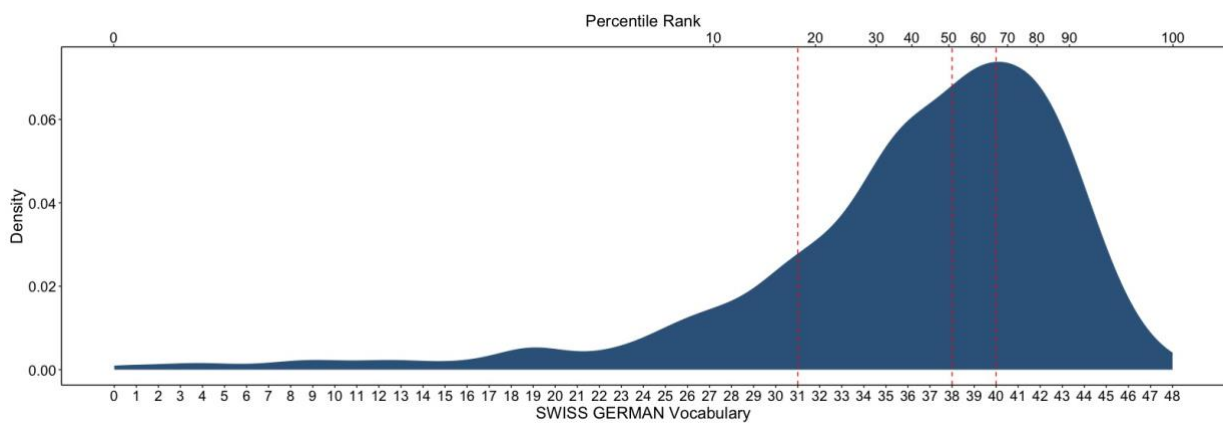


Figure 4: Distribution of Swiss German vocabulary. The red lines correspond to the 25%, 50%, and 75% percentiles.

3-year-old monolingual boys

Figure 5 and Table 5 (in the appendix) report the percentile ranks for the Swiss German vocabulary of 3-year-old monolingual boys, based on $N = 55$ children aged $M = 3.18$ years ($SD = 0.19$).

Highest level of education	% of parents
No school leaving certificate / Compulsory schooling	10.00
Basic vocational training / Apprenticeship	7.27
Grammar school	6.36
Higher vocational education	18.18
University degree	58.18

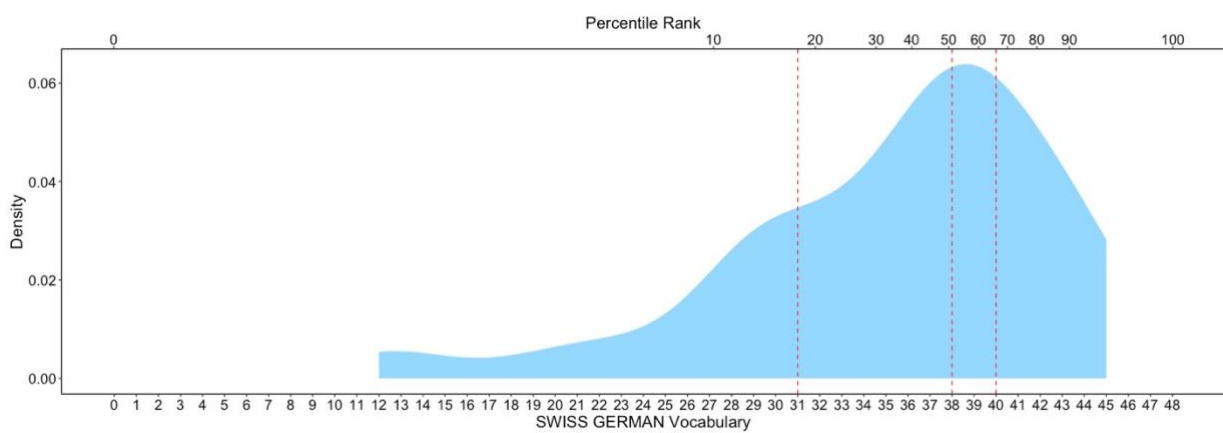


Figure 5: Distribution of Swiss German vocabulary. The red lines correspond to the 25%, 50%, and 75% percentiles.

3-year-old monolingual girls

Figure 6 and Table 6 (in the appendix) report the percentile ranks for Swiss German vocabulary for 3-year-old monolingual girls, based on $N = 52$ children aged $M = 3.26$ years ($SD = 0.24$).

Highest level of education	% of parents
No school leaving certificate / Compulsory schooling	1.92
Basic vocational training / Apprenticeship	5.77
Grammar school	15.38
Higher vocational education	26.92
University degree	50.00

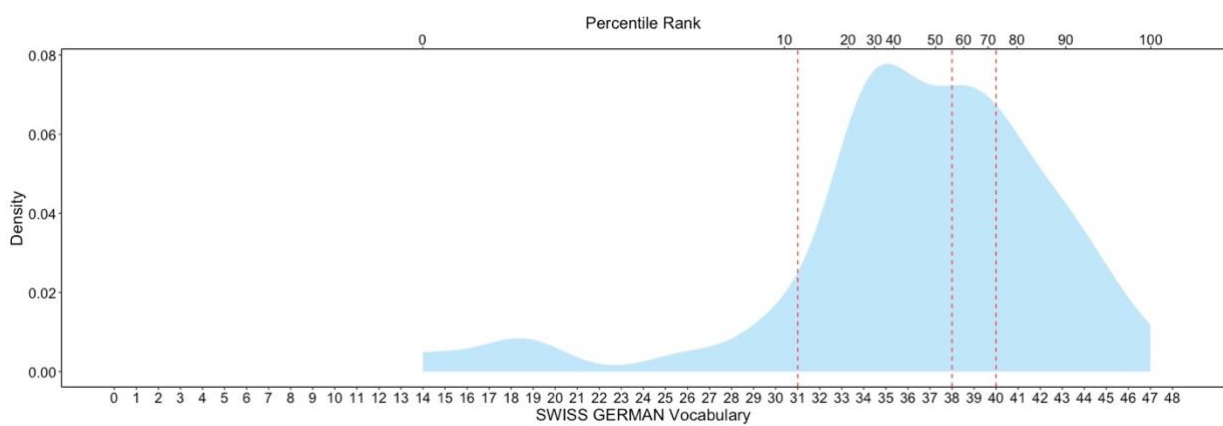


Figure 6: Distribution of Swiss German vocabulary. The red lines correspond to the 25%, 50%, and 75% percentiles.

3-year-old multilingual boys

Figure 7 and Tables 7 to 9 (in the appendix) report the percentile ranks for vocabulary in Swiss German and the child's respective second language, as well as conceptual vocabulary for 3-year-old multilingual boys, based on $N = 65$ children aged $M = 3.39$ years ($SD = 0.25$).

Highest level of education	% of parents
No school leaving certificate / Compulsory schooling	4.62
Basic vocational training / Apprenticeship	4.62
Grammar school	10.77
Higher vocational education	24.62
University degree	55.38

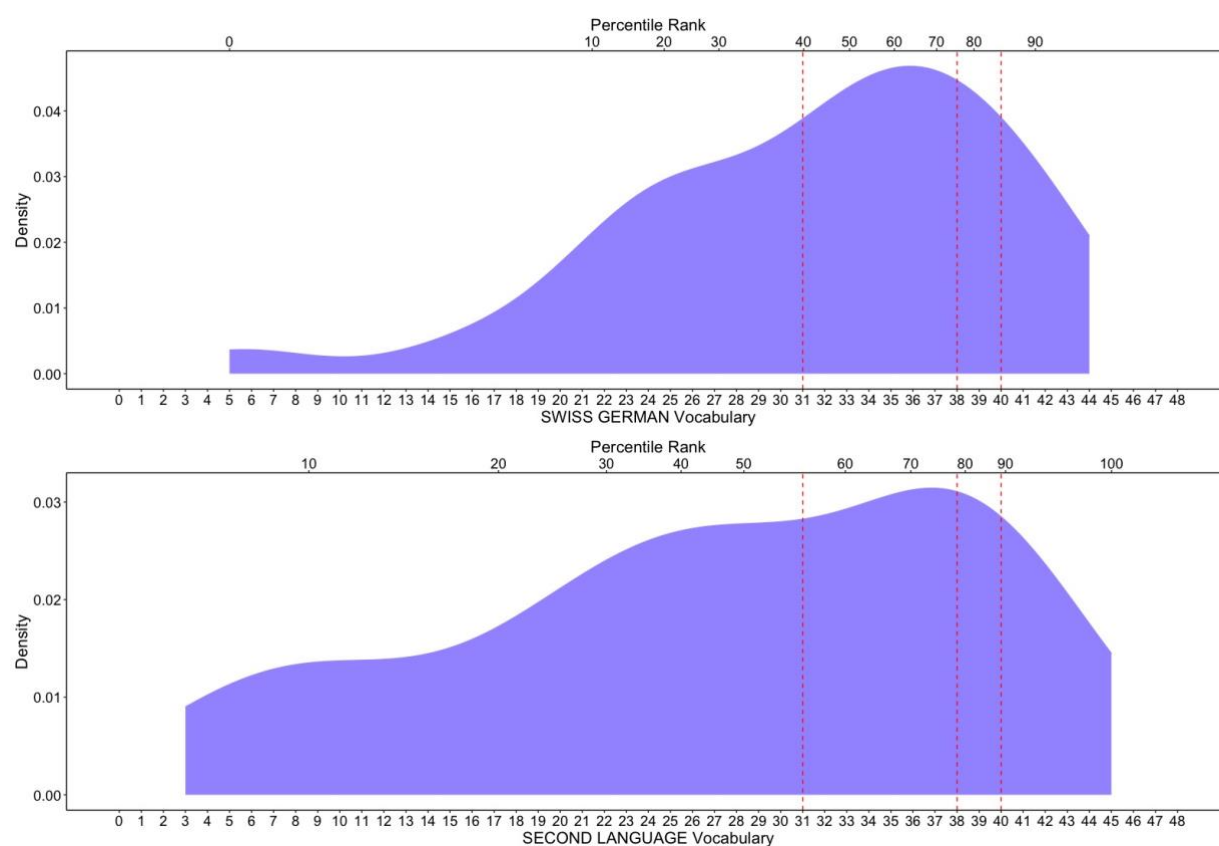


Figure 7: Distribution of vocabulary in Swiss German (top) and the child's respective second language (bottom). The red lines correspond to the 25%, 50%, and 75% percentile ranks.

3-year-old multilingual girls

Figure 8 and Tables 10 to 12 (in the appendix) report the percentile ranks for vocabulary in Swiss German and the child's respective second language, as well as conceptual vocabulary for 3-year-old multilingual girls, based on $N = 67$ children aged $M = 3.38$ years ($SD = 0.23$).

Highest level of education	% of parents
No school leaving certificate / Compulsory schooling	4.55
Basic vocational training / Apprenticeship	6.06
Grammar school	15.15
Higher vocational education	21.21
University degree	53.03

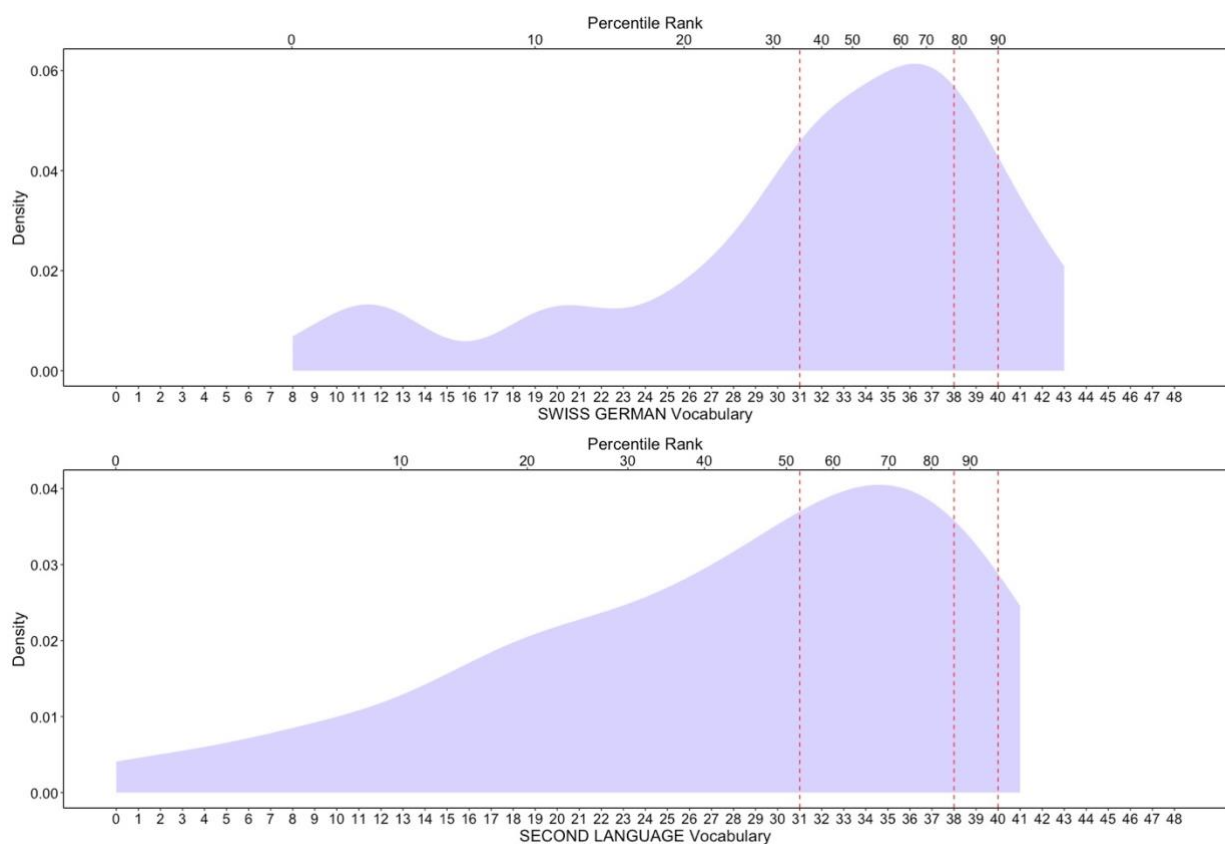


Figure 8: Distribution of vocabulary in Swiss German (top) and the child's respective second language (bottom). The red lines correspond to the 25%, 50%, and 75% percentile ranks.

4-year-old monolingual boys

Figure 9 and Table 13 (in the appendix) report the percentile ranks for Swiss German vocabulary for 4-year-old monolingual boys, based on $N = 145$ children aged $M = 4.21$ years ($SD = 0.46$).

Highest level of education	% of parents
No school leaving certificate / Compulsory schooling	0.00
Basic vocational training / Apprenticeship	11.03
Grammar school	27.21
Higher vocational education	45.59
University degree	16.18

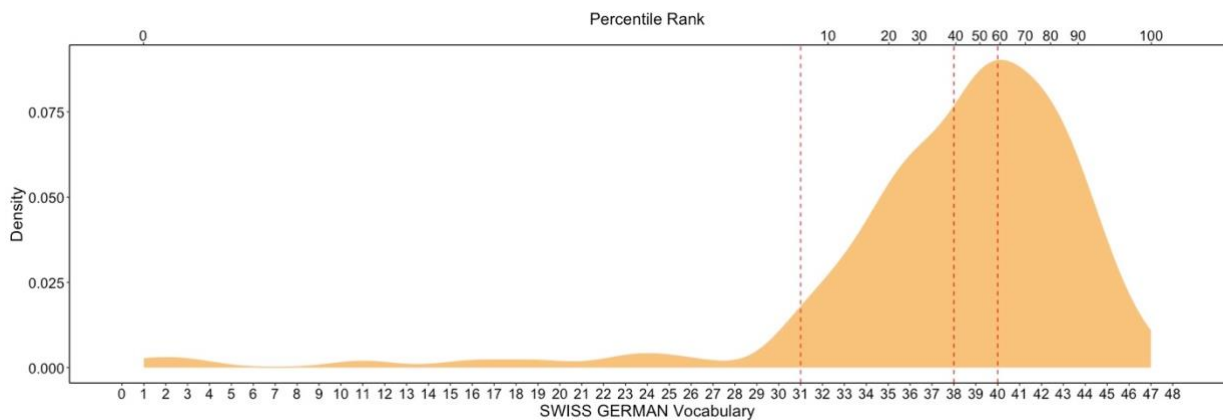


Figure 9: Distribution of Swiss German vocabulary. The red lines correspond to the 25%, 50%, and 75% percentiles.

4-year-old monolingual girls

Figure 10 and Table 14 (in the appendix) report the percentile ranks for Swiss German vocabulary for 4-year-old monolingual girls, based on $N = 149$ children aged $M = 4.40$ years ($SD = 1.70$).

Highest level of education	% of parents
No school leaving certificate / Compulsory schooling	0.00
Basic vocational training / Apprenticeship	10.79
Grammar school	25.90
Higher vocational education	48.92
University degree	14.39

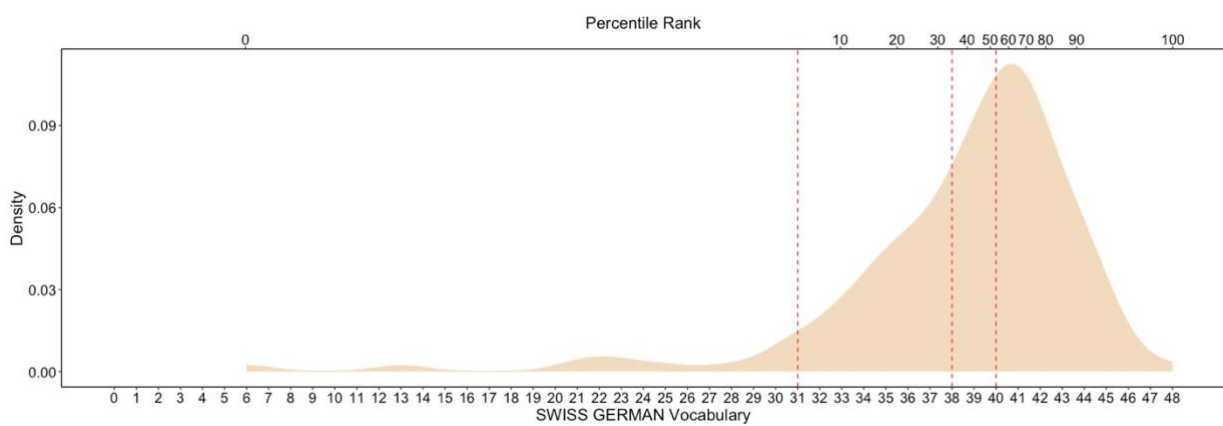


Figure 10: Distribution of Swiss German vocabulary. The red lines correspond to the 25%, 50%, and 75% percentiles.

4-year-old multilingual boys

Figure 11 and Tables 15 to 17 (in the appendix) report the percentile ranks for vocabulary in Swiss German and the child's respective second language, as well as conceptual vocabulary for 4-year-old multilingual boys, based on $N = 174$ children aged $M = 4.13$ years ($SD = 0.55$).

Highest level of education	% of parents
No school leaving certificate / Compulsory schooling	3.14
Basic vocational training / Apprenticeship	13.21
Grammar school	18.24
Higher vocational education	40.88
University degree	24.53

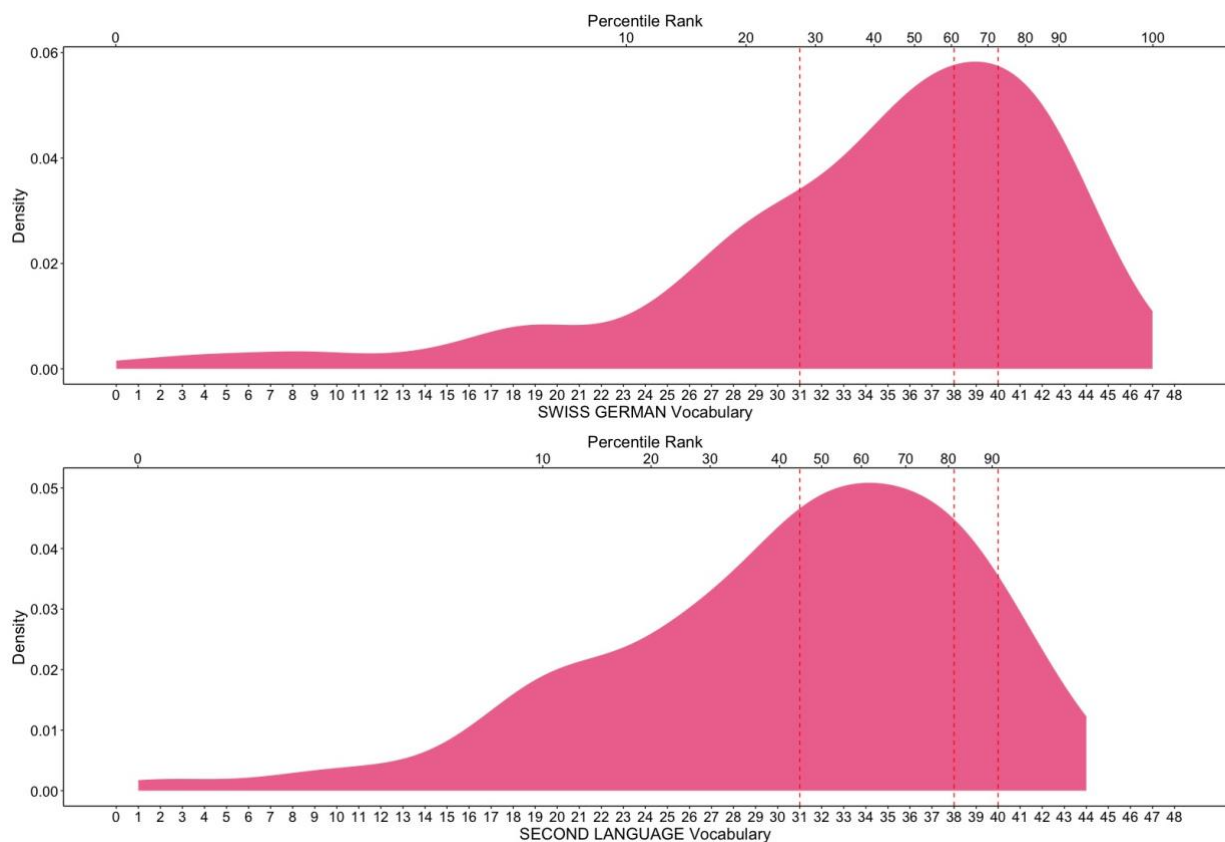


Figure 11: Distribution of vocabulary in Swiss German (top) and the child's respective second language (bottom). The red lines correspond to the 25%, 50%, and 75% percentile ranks.

4-year-old multilingual girls

Figure 12 and Tables 18 to 20 (in the appendix) show the percentile ranks for vocabulary in Swiss German and the child's respective second language, as well as conceptual vocabulary in 4-year-old multilingual girls, based on $N = 162$ children aged $M = 4.09$ years ($SD = 0.57$).

Highest level of education	% of parents
No school leaving certificate / Compulsory schooling	2.00
Basic vocational training / Apprenticeship	13.33
Grammar school	24.00
Higher vocational education	25.33
University degree	25.33

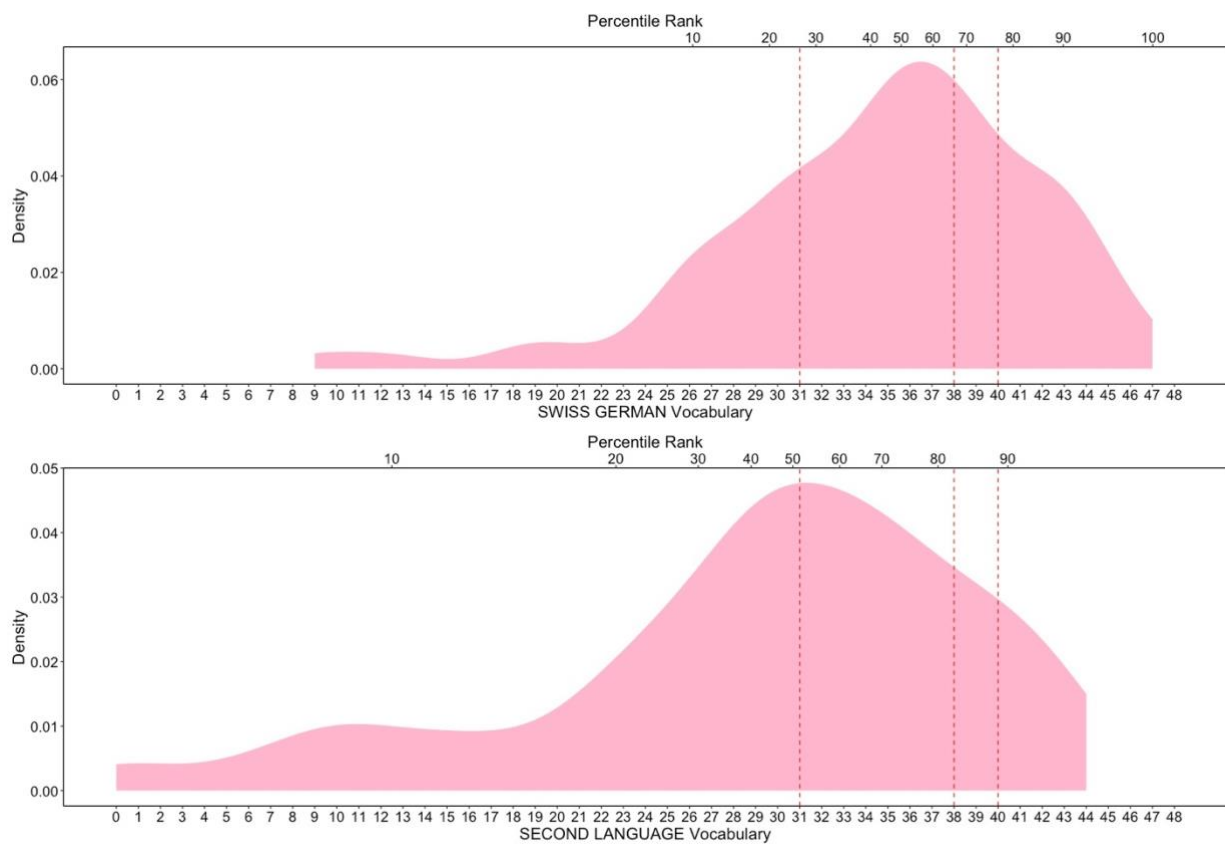


Figure 12: Distribution of vocabulary in Swiss German (top) and the child's respective second language (bottom).

The red lines correspond to the 25%, 50%, and 75% percentile ranks.

Appendix A: Percentile Rank Tables

Table 1: All 3-year-olds – Swiss German

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
9	1	35	51
12	2	36	52
12	3	36	53
14	4	36	54
16	5	36	55
19	6	36	56
19	7	36	57
20	8	37	58
21	9	37	59
22	10	37	60
22	11	37	61
24	12	37	62
24	13	37	63
25	14	38	64
26	15	38	65
26	16	38	66
26	17	38	67
27	18	38	68
28	19	38	69
28	20	38	70
29	21	38	71
29	22	39	72
29	23	39	73
29	24	39	74
30	25	39	75
30	26	39	76
30	27	39	77
31	28	40	78
31	29	40	79
31	30	40	80
32	31	40	81
32	32	40	82
32	33	40	83
32	34	40	84
32	35	41	85
33	36	41	86
33	37	41	87
33	38	42	88
34	39	42	89
34	40	43	90
34	41	43	91
34	42	43	92
34	43	43	93
34	44	43	94
34	45	43	95
35	46	44	96
35	47	44	97
35	48	44	98
35	49	45	99
35	50	47	100

Table 2: All 3-year-olds – Conceptual vocabulary

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
12	1	39	51
15	2	39	52
19	3	39	53
20	4	39	54
22	5	40	55
23	6	40	56
26	7	40	57
27	8	40	58
28	9	40	59
29	10	40	60
29	11	40	61
30	12	40	62
30	13	40	63
31	14	40	64
31	15	41	65
32	16	41	66
32	17	41	67
32	18	42	68
33	19	42	69
34	20	42	70
34	21	42	71
34	22	42	72
34	23	42	73
34	24	42	74
34	25	43	75
35	26	43	76
35	27	43	77
35	28	43	78
35	29	43	79
35	30	43	80
35	31	43	81
36	32	43	82
36	33	44	83
36	34	44	84
36	35	44	85
37	36	44	86
37	37	44	87
37	38	44	88
37	39	44	89
37	40	44	90
37	41	45	91
38	42	45	92
38	43	45	93
38	44	45	94
38	45	45	95
38	46	45	96
38	47	46	97
38	48	47	98
39	49	48	99
39	50	48	100

Table 3: All 4-year-olds – Swiss German

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
8	1	38	51
13	2	38	52
18	3	38	53
19	4	38	54
21	5	39	55
24	6	39	56
25	7	39	57
26	8	39	58
26	9	39	59
27	10	39	60
28	11	39	61
28	12	39	62
29	13	40	63
30	14	40	64
30	15	40	65
30	16	40	66
31	17	40	67
31	18	40	68
31	19	40	69
32	20	41	70
32	21	41	71
33	22	41	72
33	23	41	73
33	24	41	74
33	25	41	75
34	26	41	76
34	27	41	77
34	28	42	78
35	29	42	79
35	30	42	80
35	31	42	81
35	32	42	82
35	33	42	83
35	34	42	84
35	35	42	85
36	36	43	86
36	37	43	87
36	38	43	88
36	39	43	89
36	40	43	90
36	41	43	91
36	42	44	92
37	43	44	93
37	44	44	94
37	45	44	95
37	46	44	96
37	47	45	97
38	48	45	98
38	49	46	99
38	50	48	100

Table 4: All 4-year-olds – Conceptual Vocabulary

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
11	1	40	51
18	2	40	52
23	3	40	53
26	4	40	54
28	5	41	55
30	6	41	56
31	7	41	57
31	8	41	58
32	9	41	59
33	10	41	60
33	11	41	61
33	12	41	62
34	13	41	63
34	14	41	64
34	15	41	65
34	16	41	66
35	17	42	67
35	18	42	68
35	19	42	69
35	20	42	70
35	21	42	71
36	22	42	72
36	23	42	73
36	24	42	74
36	25	43	75
36	26	43	76
37	27	43	77
37	28	43	78
37	29	43	79
37	30	43	80
37	31	43	81
38	32	43	82
38	33	44	83
38	34	44	84
38	35	44	85
38	36	44	86
39	37	44	87
39	38	44	88
39	39	44	89
39	40	45	90
39	41	45	91
39	42	45	92
39	43	45	93
39	44	45	94
39	45	46	95
40	46	46	96
40	47	46	97
40	48	47	98
40	49	47	99
40	50	48	100

Table 5: Monolingual boys (3 years) – Swiss German

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
13	1	38	51
13	2	38	52
17	3	38	53
19	4	38	54
21	5	38	55
22	6	38	56
23	7	38	57
24	8	38	58
26	9	38	59
27	10	38	60
28	11	38	61
28	12	38	62
28	13	38	63
29	14	39	64
29	15	39	65
29	16	39	66
29	17	39	67
29	18	40	68
30	19	40	69
30	20	40	70
30	21	40	71
30	22	40	72
30	23	40	73
31	24	40	74
31	25	40	75
31	26	40	76
32	27	40	77
32	28	40	78
32	29	40	79
32	30	40	80
33	31	41	81
33	32	41	82
33	33	42	83
34	34	42	84
35	35	42	85
35	36	42	86
35	37	43	87
35	38	43	88
35	39	43	89
36	40	44	90
36	41	44	91
36	42	44	92
36	43	44	93
36	44	44	94
36	45	44	95
36	46	44	96
36	47	44	97
37	48	45	98
37	49	45	99
38	50	45	100

Table 6: Monolingual girls (3 years) – Swiss German

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
16	1	37	51
18	2	38	52
19	3	38	53
19	4	38	54
22	5	38	55
26	6	38	56
28	7	38	57
30	8	38	58
30	9	38	59
30	10	39	60
31	11	39	61
31	12	39	62
33	13	39	63
34	14	39	64
34	15	39	65
34	16	39	66
34	17	39	67
34	18	40	68
34	19	40	69
34	20	40	70
34	21	40	71
34	22	40	72
34	23	40	73
34	24	40	74
34	25	40	75
34	26	40	76
34	27	40	77
34	28	40	78
34	29	40	79
34	30	41	80
34	31	41	81
34	32	42	82
34	33	42	83
34	34	42	84
35	35	42	85
35	36	43	86
35	37	43	87
35	38	43	88
35	39	43	89
35	40	43	90
35	41	43	91
35	42	43	92
35	43	43	93
36	44	44	94
37	45	44	95
37	46	45	96
37	47	45	97
37	48	45	98
37	49	46	99
37	50	47	100

Table 7: Multilingual boys (3 years) – Swiss German

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
6	1	33	51
9	2	33	52
14	3	34	53
16	4	34	54
17	5	34	55
19	6	34	56
20	7	34	57
21	8	34	58
21	9	35	59
22	10	35	60
22	11	36	61
22	12	36	62
22	13	36	63
23	14	36	64
24	15	36	65
24	16	36	66
24	17	37	67
24	18	37	68
24	19	37	69
25	20	37	70
25	21	37	71
25	22	37	72
26	23	38	73
26	24	38	74
26	25	38	75
26	26	38	76
26	27	38	77
26	28	38	78
27	29	39	79
27	30	39	80
28	31	39	81
28	32	39	82
29	33	39	83
29	34	40	84
29	35	40	85
30	36	40	86
30	37	41	87
30	38	41	88
31	39	41	89
31	40	42	90
31	41	42	91
32	42	42	92
32	43	43	93
32	44	43	94
32	45	43	95
32	46	43	96
33	47	43	97
33	48	44	98
33	49	44	99
33	50	44	100

Table 8: Multilingual boys (3 years) – Second Language

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
3	1	29	51
3	2	29	52
4	3	29	53
5	4	29	54
7	5	29	55
7	6	29	56
7	7	30	57
7	8	30	58
8	9	30	59
9	10	32	60
9	11	34	61
10	12	35	62
10	13	35	63
11	14	35	64
12	15	35	65
13	16	35	66
14	17	35	67
15	18	35	68
16	19	36	69
17	20	36	70
18	21	36	71
18	22	36	72
19	23	37	73
19	24	37	74
20	25	38	75
20	26	38	76
20	27	38	77
21	28	38	78
22	29	38	79
22	30	38	80
23	31	38	81
23	32	39	82
23	33	39	83
23	34	39	84
23	35	39	85
23	36	39	86
23	37	40	87
24	38	40	88
26	39	40	89
26	40	40	90
26	41	40	91
26	42	41	92
26	43	41	93
27	44	42	94
27	45	42	95
28	46	42	96
28	47	43	97
28	48	44	98
28	49	44	99
28	50	45	100

Table 9: Multilingual boys (3 years) – Conceptual Vocabulary

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
10	1	40	51
12	2	40	52
17	3	41	53
20	4	41	54
22	5	41	55
24	6	41	56
27	7	42	57
28	8	42	58
30	9	42	59
31	10	42	60
31	11	42	61
32	12	43	62
32	13	43	63
33	14	43	64
33	15	43	65
34	16	43	66
35	17	43	67
35	18	43	68
35	19	43	69
35	20	43	70
35	21	44	71
35	22	44	72
35	23	44	73
35	24	44	74
36	25	44	75
36	26	44	76
36	27	44	77
36	28	44	78
36	29	44	79
36	30	44	80
36	31	44	81
36	32	44	82
36	33	44	83
37	34	45	84
37	35	45	85
37	36	45	86
37	37	45	87
37	38	45	88
38	39	45	89
38	40	45	90
39	41	46	91
39	42	46	92
39	43	46	93
39	44	46	94
39	45	46	95
40	46	48	96
40	47	48	97
40	48	48	98
40	49	48	99
40	50	48	100

Table 10: Multilingual girls (3 years) – Swiss German

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
9	1	33	51
10	2	34	52
12	3	34	53
12	4	35	54
12	5	35	55
12	6	35	56
12	7	35	57
13	8	36	58
18	9	36	59
19	10	36	60
19	11	36	61
20	12	36	62
20	13	36	63
21	14	36	64
21	15	36	65
23	16	36	66
25	17	36	67
25	18	36	68
25	19	37	69
26	20	37	70
26	21	37	71
27	22	37	72
28	23	37	73
29	24	37	74
29	25	37	75
29	26	37	76
29	27	38	77
29	28	38	78
29	29	38	79
30	30	38	80
30	31	39	81
31	32	39	82
31	33	39	83
31	34	39	84
32	35	39	85
32	36	39	86
32	37	39	87
32	38	39	88
32	39	40	89
32	40	40	90
32	41	40	91
32	42	41	92
32	43	41	93
32	44	41	94
32	45	43	95
33	46	43	96
33	47	43	97
33	48	43	98
33	49	43	99
33	50	43	100

Table 11: Multilingual girls (3 years) – Second Language

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
1	1	31	51
2	2	31	52
6	3	31	53
8	4	31	54
9	5	31	55
9	6	32	56
10	7	32	57
11	8	32	58
13	9	32	59
14	10	33	60
15	11	33	61
16	12	33	62
17	13	33	63
18	14	33	64
18	15	33	65
18	16	34	66
18	17	34	67
18	18	34	68
18	19	35	69
19	20	35	70
19	21	36	71
19	22	36	72
19	23	36	73
20	24	36	74
20	25	36	75
20	26	36	76
21	27	36	77
23	28	36	78
24	29	37	79
24	30	37	80
24	31	37	81
24	32	38	82
24	33	38	83
24	34	38	84
25	35	38	85
26	36	38	86
26	37	38	87
26	38	38	88
27	39	38	89
27	40	39	90
27	41	39	91
27	42	39	92
27	43	39	93
28	44	40	94
29	45	40	95
29	46	40	96
30	47	40	97
30	48	41	98
30	49	41	99
31	50	41	100

Table 12: Multilingual girls (3 years) – Conceptual Vocabulary

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
20	1	41	51
21	2	41	52
22	3	41	53
23	4	41	54
25	5	42	55
27	6	42	56
28	7	42	57
29	8	42	58
30	9	42	59
31	10	42	60
32	11	42	61
32	12	42	62
32	13	42	63
32	14	42	64
33	15	42	65
33	16	42	66
34	17	42	67
35	18	42	68
37	19	42	69
37	20	42	70
37	21	43	71
37	22	43	72
37	23	43	73
37	24	43	74
37	25	43	75
38	26	43	76
38	27	43	77
38	28	43	78
38	29	43	79
39	30	44	80
39	31	44	81
39	32	44	82
39	33	44	83
39	34	44	84
39	35	44	85
39	36	44	86
39	37	44	87
39	38	44	88
39	39	44	89
40	40	44	90
40	41	44	91
40	42	45	92
40	43	45	93
40	44	45	94
40	45	45	95
40	46	45	96
40	47	46	97
40	48	47	98
40	49	47	99
41	50	48	100

Table 13: Monolingual boys (4 years) – Swiss German

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
7	1	39	51
15	2	39	52
20	3	39	53
24	4	39	54
27	5	40	55
31	6	40	56
31	7	40	57
31	8	40	58
32	9	40	59
32	10	40	60
33	11	40	61
33	12	40	62
33	13	40	63
34	14	41	64
34	15	41	65
34	16	41	66
34	17	41	67
35	18	41	68
35	19	41	69
35	20	41	70
35	21	41	71
36	22	42	72
36	23	42	73
36	24	42	74
36	25	42	75
36	26	42	76
36	27	42	77
36	28	42	78
36	29	42	79
36	30	42	80
36	31	43	81
37	32	43	82
37	33	43	83
37	34	43	84
37	35	43	85
37	36	43	86
37	37	43	87
38	38	43	88
38	39	43	89
38	40	44	90
38	41	44	91
39	42	44	92
39	43	44	93
39	44	44	94
39	45	44	95
39	46	45	96
39	47	45	97
39	48	45	98
39	49	46	99
39	50	47	100

Table 14: Monolingual girls (4 years) – Swiss German

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
17	1	40	51
22	2	40	52
24	3	40	53
28	4	40	54
30	5	40	55
31	6	40	56
31	7	40	57
33	8	41	58
33	9	41	59
33	10	41	60
33	11	41	61
33	12	41	62
34	13	41	63
35	14	41	64
35	15	41	65
35	16	41	66
35	17	41	67
35	18	41	68
35	19	41	69
35	20	41	70
36	21	41	71
36	22	41	72
36	23	41	73
36	24	42	74
37	25	42	75
37	26	42	76
37	27	42	77
37	28	42	78
37	29	42	79
37	30	42	80
38	31	42	81
38	32	42	82
38	33	43	83
38	34	43	84
38	35	43	85
38	36	43	86
38	37	43	87
39	38	43	88
39	39	44	89
39	40	44	90
39	41	44	91
39	42	44	92
39	43	44	93
39	44	44	94
39	45	44	95
39	46	45	96
39	47	45	97
40	48	45	98
40	49	46	99
40	50	48	100

Table 15: Multilingual boys (4 years) – Swiss German

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
4	1	36	51
8	2	36	52
10	3	37	53
15	4	37	54
17	5	37	55
18	6	37	56
19	7	38	57
19	8	38	58
21	9	38	59
23	10	38	60
24	11	38	61
25	12	38	62
25	13	38	63
26	14	39	64
27	15	39	65
28	16	39	66
28	17	39	67
28	18	39	68
28	19	40	69
28	20	40	70
29	21	40	71
29	22	40	72
30	23	40	73
30	24	40	74
30	25	40	75
30	26	40	76
31	27	41	77
31	28	41	78
31	29	41	79
32	30	41	80
32	31	42	81
32	32	42	82
33	33	42	83
33	34	42	84
33	35	42	85
33	36	42	86
34	37	42	87
34	38	42	88
34	39	42	89
35	40	43	90
35	41	43	91
35	42	43	92
35	43	43	93
35	44	44	94
35	45	44	95
36	46	44	96
36	47	44	97
36	48	45	98
36	49	46	99
36	50	47	100

Table 16: Multilingual boys (4 years) – Second Language

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
6	1	32	51
9	2	32	52
12	3	33	53
15	4	33	54
16	5	33	55
18	6	33	56
18	7	33	57
18	8	33	58
19	9	34	59
19	10	34	60
20	11	34	61
20	12	34	62
21	13	34	63
21	14	35	64
21	15	35	65
22	16	35	66
22	17	35	67
22	18	35	68
24	19	36	69
24	20	36	70
25	21	36	71
25	22	36	72
25	23	36	73
26	24	37	74
26	25	37	75
26	26	37	76
26	27	37	77
26	28	37	78
26	29	37	79
27	30	38	80
27	31	38	81
28	32	38	82
29	33	38	83
29	34	39	84
29	35	39	85
29	36	39	86
30	37	39	87
30	38	39	88
30	39	39	89
30	40	40	90
30	41	40	91
30	42	40	92
31	43	41	93
31	44	41	94
31	45	41	95
31	46	42	96
31	47	42	97
32	48	43	98
32	49	43	99
32	50	44	100

Table 17: Multilingual boys (4 years) – Conceptual Vocabulary

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
7	1	41	51
21	2	41	52
23	3	41	53
26	4	41	54
27	5	41	55
28	6	41	56
30	7	41	57
30	8	41	58
31	9	42	59
32	10	42	60
33	11	42	61
33	12	42	62
33	13	42	63
34	14	42	64
34	15	43	65
34	16	43	66
34	17	43	67
35	18	43	68
35	19	43	69
35	20	43	70
36	21	43	71
36	22	43	72
37	23	43	73
37	24	43	74
37	25	44	75
37	26	44	76
37	27	44	77
38	28	44	78
38	29	44	79
38	30	44	80
38	31	44	81
38	32	44	82
38	33	44	83
39	34	44	84
39	35	44	85
39	36	45	86
39	37	45	87
39	38	45	88
40	39	45	89
40	40	45	90
40	41	46	91
40	42	46	92
40	43	46	93
40	44	46	94
40	45	46	95
40	46	46	96
40	47	46	97
41	48	47	98
41	49	47	99
41	50	48	100

Table 18: Multilingual girls (4 years) – Swiss German

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
11	1	36	51
14	2	36	52
19	3	36	53
19	4	36	54
22	5	36	55
25	6	36	56
25	7	36	57
26	8	37	58
26	9	37	59
26	10	37	60
26	11	37	61
27	12	38	62
27	13	38	63
27	14	38	64
28	15	38	65
28	16	38	66
29	17	38	67
29	18	38	68
30	19	38	69
30	20	39	70
30	21	39	71
30	22	39	72
30	23	39	73
30	24	39	74
31	25	39	75
31	26	39	76
31	27	39	77
31	28	40	78
31	29	40	79
32	30	41	80
32	31	41	81
32	32	41	82
32	33	42	83
33	34	42	84
33	35	42	85
33	36	42	86
33	37	42	87
34	38	43	88
34	39	43	89
35	40	43	90
35	41	43	91
35	42	43	92
35	43	43	93
35	44	44	94
35	45	44	95
35	46	44	96
35	47	45	97
35	48	46	98
35	49	46	99
36	50	47	100

Table 19: Multilingual girls (4 years) – Second Language

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
1	1	31	51
1	2	31	52
6	3	31	53
7	4	31	54
9	5	31	55
9	6	32	56
10	7	32	57
11	8	32	58
11	9	32	59
13	10	33	60
15	11	33	61
16	12	33	62
16	13	34	63
16	14	34	64
19	15	34	65
21	16	34	66
21	17	34	67
21	18	34	68
22	19	34	69
23	20	35	70
23	21	35	71
23	22	35	72
24	23	35	73
24	24	36	74
25	25	36	75
25	26	37	76
25	27	37	77
25	28	37	78
26	29	37	79
27	30	37	80
27	31	37	81
28	32	37	82
28	33	39	83
28	34	39	84
28	35	39	85
28	36	39	86
28	37	40	87
29	38	40	88
29	39	40	89
29	40	40	90
29	41	41	91
29	42	41	92
29	43	42	93
29	44	42	94
30	45	42	95
30	46	43	96
30	47	43	97
30	48	43	98
31	49	43	99
31	50	44	100

Table 20: Multilingual girls (4 years) – Conceptual Vocabulary

BILEX Score	Percentile Rank	BILEX Score	Percentile Rank
17	1	40	51
18	2	41	52
26	3	41	53
26	4	41	54
30	5	41	55
31	6	41	56
32	7	41	57
32	8	41	58
33	9	41	59
33	10	41	60
33	11	41	61
34	12	42	62
34	13	42	63
34	14	42	64
35	15	42	65
35	16	42	66
35	17	42	67
35	18	42	68
35	19	42	69
35	20	43	70
36	21	43	71
36	22	43	72
36	23	43	73
36	24	43	74
36	25	43	75
36	26	43	76
36	27	43	77
37	28	43	78
37	29	44	79
37	30	44	80
37	31	44	81
38	32	44	82
38	33	45	83
38	34	45	84
39	35	45	85
39	36	45	86
39	37	45	87
39	38	45	88
39	39	45	89
39	40	45	90
39	41	46	91
39	42	46	92
40	43	46	93
40	44	46	94
40	45	46	95
40	46	47	96
40	47	47	97
40	48	47	98
40	49	47	99
40	50	48	100

Appendix B: Available languages (as of October 2025)

Albanian
Aramaic
Bosnian
Bulgarian
Danish
German (Germany)
German (Switzerland)
German (Luxembourg)
English (American)
English (British)
Finnish
French
Greek
Italian
Japanese
Cantonese
Croatian
Kurdish
Mandarin
Dutch
Polish
Portuguese
Portuguese (Brazilian)
Romansh (Grischun)
Romansh (Sursilvan)
Romanian
Russian
Swedish
Serbian
Slovak
Slovenian
Sorbian
Spanish
Spanish (Colombian)
Spanish (Mexican)
Tamil
Czech
Turkish
Ukrainian
Hungarian
Vietnamese

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