

# Early Literacy Activities Before Beginning Primary School Scale

The Early Literacy Activities Before Beginning Primary School (EBA) scale was created based on parents' frequency of doing the nine activities described below.

Items in the PIRLS 2016      Early Literacy Activities Before Beginning Primary School      Scale

Items in the PIRLS 2016	Early Literacy Activities Before Beginning Primary School	Scale
T ASBH02A		
T ASBH02B		
T ASBH02C		
T ASBH02D		
T ASBH02E		
T ASBH02F		
T ASBH02G		
T ASBH02H		
T ASBH02I		

T Trend item—item was included in the same scale in PIRLS 2011 and was used for linking the PIRLS 2011 and PIRLS 2016 scales.

Item Parameters for the PIRLS 2016 Early Literacy Activities Before Beginning Primary School Scale

Item	delta	tau_1	tau_2	ln t
ASBH02A	-0.43565	-1.37653	1.37653	0.96
ASBH02B	-0.21414	-1.38385	1.38385	0.97
ASBH02C	0.14115	-0.92504	0.92504	1.14
ASBH02D	0.31840	-0.99895	0.99895	1.02
ASBH02E	-0.89489	-1.18523	1.18523	1.03
ASBH02F	0.31620	-1.36183	1.36183	0.95
ASBH02G	0.54796	-1.22190	1.22190	0.95
ASBH02H	0.02688	-1.14591	1.14591	1.00
ASBH02I	0.19409	-0.98400	0.98400	1.00

SOURCE: IEA's Progress in International Reading Literacy Study 2016

Scale Transformation Constants for the PIRLS 2016 Early Literacy Activities Before Beginning Primary School Scale

Scale Transformation Constants	
A = 8.467126	Transformed Scale Score = 8.467126 + 1.488680 • Logit Scale Score
B = 1.488680	

Equivalence Table of the Raw Score and Transformed Scale Scores for the PIRLS 2016 Early Literacy Activities Before Beginning Primary School Scale

Raw Score	Transformed Scale Score	Cutpoint
0	2.13736	
1	3.95698	
2	4.90763	
3	5.60873	
4	6.18976	6.2
5	6.70267	
6	7.17841	
7	7.62846	
8	8.06349	
9	8.49167	
10	8.91693	
11	9.34703	
12	9.78848	
13	10.25182	
14	10.74970	10.7
15	11.31055	
16	11.98750	
17	12.91216	
18	14.70318	

SOURCE: IEA's Progress in International Reading Literacy Study 2016

Cronbach's Alpha Reliability Coefficient and Principal Components Analysis of the Items in the PIRLS 2016 Early Literacy Activities Before Beginning Primary School Scale

Cronbach's Alpha	Percent	Component Loadings for Each Item									
		ASBHC	ASBHC	ASBHI	ASBHC	ASBHI	ASBHI	ASBHC	ASBHC	ASBHC	ASBHC

