

TABLE 1-5 

Average mathematics and science assessment test scores of children who were in kindergarten for the first time during the 2010–11 school year and in third grade during the 2013–14 school year, by child and family characteristics

(Average score)

Child and family characteristic	Mathematics		Science	
	Fall 2010	Spring 2014	Fall 2011 ^a	Spring 2014
All children	29.3	99.2	23.9	55.6
Sex				
Male	29.4	100.9	23.9	56.3
Female	29.2	97.4	23.9	55.0
Race or ethnicity ^b				
White	31.7	102.9	26.0	58.5
Black	25.8	90.2	21.0	50.0
Hispanic ^c	24.7	94.3	20.5	51.5
Asian	34.5	104.3	23.4	57.5
American Indian or Alaska Native	26.3	99.2	24.7	54.3
Family poverty status in fall 2010 ^d				
Income below the federal poverty level	24.1	93.3	20.7	51.0
Income at or above 200% of the federal poverty level	33.3	103.2	25.9	58.9

^a There was no science assessment in academic year 2010–11. Science assessment began in grade 1.

^b Other racial and ethnic groups are included in all children but are not shown separately in the table.

^c Hispanic may be any race. American Indian or Alaska Native, Asian, black, and white refer to individuals who are not of Hispanic origin.

^d Poverty status is based on 2010 U.S. Census poverty thresholds, which identify incomes determined to meet household needs, given family size. For example, in 2010, a family of two was below the poverty threshold if its income was lower than \$14,220.

Note(s)

Mathematics was first assessed in kindergarten in fall 2010. Science was first assessed in first grade in fall 2011. The mathematics assessment scale was 0 to 75 in kindergarten and 0 to 135 in third grade. The actual score range in third grade was 39 to 133. The science assessment scale was 0 to 47 in first grade and 0 to 87 in third grade. The actual score range in third grade was 21 to 78.

Source(s)



Mulligan GM, Hastedt S, McCarroll JC, *First-Time Kindergartners in 2010–11: First Findings From the Kindergarten Rounds of the Early Childhood Longitudinal Study, Kindergarten Class of 2010–11 (ECLS-K:2011)*, NCES 2012-049 (2012); Mulligan GM, McCarroll JC, Flanagan KD, Potter D, *Findings From the First-Grade Rounds of the Early Childhood Longitudinal Study, Kindergarten Class of 2010–11 (ECLS-K:2011)*, NCES 2015-109 (2014); Mulligan GM, McCarroll JC, Flanagan KD, Potter D, *Findings From the Third-Grade Round of the Early Childhood Longitudinal Study, Kindergarten Class of 2010–11 (ECLS-K:2011)*, NCES 2016-094 (2016). See Appendix Table 1-14 and Appendix Table 1-15.

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