

WEIGHTED PERCENTAGES AND AVERAGE SCALE SCORES ACROSS ASSESSMENT YEARS

	1977	1982	1986	1990	1992	1994	1996	
-- Total --	100.0(****) 219.9(1.2)@	100.0(****) 220.8(1.8)	100.0(****) 224.3(1.2)	100.0(****) 228.7(0.8)	100.0(****) 230.6(1.0)	100.0(****) 231.0(1.2)	100.0(****) 229.7(1.2)	L
Gender								
Male	50.6(0.4) 222.1(1.3)@	50.5(1.5) 221.0(2.3)	50.0(0.6) 227.3(1.4)	49.4(0.6) 230.3(1.1)	48.6(0.6) 234.7(1.2)	48.7(0.8) 232.2(1.3)	49.5(0.6) 231.5(1.7)	L
Female	49.4(0.4) 217.6(1.2)@	49.5(1.5) 220.7(2.0)	50.0(0.6) 221.3(1.4)	50.6(0.6) 227.1(1.0)	51.4(0.6) 226.7(1.0)	50.8(0.8) 230.0(1.4)	50.4(0.6) 228.0(1.5)	L
Race/Ethnicity								
White	79.6(1.6)@ 229.6(0.9)@	78.6(2.6) 229.0(1.9)	76.5(1.1) 231.9(1.2)	74.5(1.1) 237.5(0.8)	75.4(0.9) 239.1(1.0)	74.1(0.9) 240.3(1.3)	71.5(1.1) 239.0(1.4)	L
Black	13.7(1.4) 174.8(1.8)@	14.3(2.1) 187.0(3.0)	14.9(0.5) 196.2(1.9)	16.3(0.7) 196.4(2.0)	15.9(0.4) 200.3(2.7)	15.0(0.5) 201.4(1.7)	15.6(0.5) 201.9(3.0)	Lq
Hispanic	5.3(0.9) 191.9(2.7)@	5.2(1.3) 189.0(4.2)	6.2(1.1) 199.4(3.1)	5.5(0.6) 206.2(2.2)	5.6(0.8) 204.7(2.8)	6.1(0.4) 201.0(2.7)	7.9(1.0) 207.1(2.8)	L
Other	1.5(0.3) 214.4(5.4)	2.0(1.0) ***** (****)	2.5(0.5) 220.6(4.6)	3.8(1.0) 227.4(3.6)	3.0(0.4) 226.5(3.4)	4.0(0.4) 215.7(4.2)	4.7(1.2) 220.6(5.0)	
Grade								
Below Modal Grade	24.1(1.0)@ 197.5(1.6)@	30.0(1.9) 197.5(2.9)	33.9(1.7) 204.9(1.6)	34.8(1.4) 210.9(1.5)	37.6(1.2) 214.8(1.4)	33.4(1.3) 215.2(1.7)	33.4(1.9) 213.7(1.3)	L
At Modal Grade	74.8(1.0)@ 227.0(1.2)@	69.5(1.9) 230.7(2.2)	65.8(1.7) 234.3(1.2)	64.8(1.4) 238.2(1.0)	62.1(1.2) 240.1(1.0)	66.4(1.3) 238.9(1.3)	66.5(1.9) 237.8(1.6)	L
Above Modal Grade	0.7(0.1)@ 243.9(6.2)	0.5(0.2) ***** (****)	0.3(0.1) ***** (****)	0.3(0.1) ***** (****)	0.3(0.1) ***** (****)	0.2(0.1) ***** (****)	0.1(0.0) ***** (****)	NA

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WEIGHTED PERCENTAGES AND AVERAGE SCALE SCORES ACROSS ASSESSMENT YEARS

	1977	1982	1986	1990	1992	1994	1996	
Region								
Northeast	25.3(1.5) 224.4(1.6)@	19.0(2.3) 221.8(2.9)	21.1(1.1) 228.2(3.5)	23.2(0.9) 231.1(2.4)	20.9(1.2) 234.4(2.8)	21.8(0.9) 234.6(2.5)	21.7(2.3) 233.6(2.6)	L
Southeast	20.2(1.2) 205.1(2.9)@	22.6(2.7) 213.9(3.6)	22.5(4.7) 218.8(3.1)	24.1(0.9) 219.9(1.9)	24.1(1.3) 222.8(1.7)	24.5(1.5) 227.4(2.2)	23.4(2.6) 224.1(3.4)	L
Central	29.5(1.9) 225.2(2.2)	30.1(4.3) 226.3(3.5)	28.6(4.0) 227.9(2.2)	24.3(0.6) 234.2(1.7)	28.2(0.8) 237.5(1.8)	25.9(1.0) 236.2(2.7)	25.0(0.9) 233.7(2.4)	L
West	25.0(2.0) 220.9(2.2)	28.4(2.7) 219.9(4.1)	27.7(1.6) 222.1(3.2)	28.4(0.8) 229.5(1.8)	26.7(0.8) 227.4(2.2)	27.8(1.0) 226.4(2.7)	30.0(2.6) 228.0(1.9)	L
Type Of Location								
Central City	0.0(****) *****(****)	0.0(****) *****(****)	0.0(****) *****(****)	0.0(****) *****(****)	0.0(****) *****(****)	31.9(2.7) 222.3(2.7)	42.3(3.9) 224.5(2.1)	NA
Urban Fringe/Large Tow	0.0(****) *****(****)	0.0(****) *****(****)	0.0(****) *****(****)	0.0(****) *****(****)	0.0(****) *****(****)	44.1(3.3)@ 236.3(1.7)	32.4(2.7) 235.8(2.2)	NA
Rural/Small Town	0.0(****) *****(****)	0.0(****) *****(****)	0.0(****) *****(****)	0.0(****) *****(****)	0.0(****) *****(****)	24.0(4.0) 232.9(2.3)	25.3(4.4) 230.8(3.6)	NA
Parents' Education Level								
Less than H.S.	9.0(0.4)@ 198.5(2.2)@	6.5(0.9) 198.2(6.0)	4.2(0.4) 203.6(2.9)	4.9(0.4) 209.8(2.7)	4.2(0.3) 217.2(2.6)	3.8(0.4) 211.4(3.4)	3.9(0.5) 210.4(2.9)	L
Graduated H.S.	26.7(0.5)@ 223.0(1.4)	14.7(1.1) 218.0(3.3)	16.4(0.7) 219.6(1.5)	16.0(0.7) 225.8(1.7)	13.5(0.7) 222.0(1.9)	14.0(0.6) 225.3(1.4)	12.6(0.6) 222.1(2.3)	
Some Educ After H.S.	7.2(0.3) 237.2(1.5)	8.3(0.6) 229.1(3.2)	6.6(0.6) 235.8(2.6)	7.4(0.4) 237.6(2.1)	7.8(0.4) 236.6(2.4)	7.0(0.4) 238.9(2.8)	7.2(0.4) 242.1(2.9)	
Graduated College	23.1(0.7)@ 232.3(1.4)@	42.0(2.3) 230.5(2.3)	37.8(1.1) 235.2(1.4)	40.1(1.1) 236.2(1.3)	41.5(1.2) 238.9(1.2)	45.0(0.8) 238.5(1.4)	43.0(1.2) 240.2(1.6)	L
Unknown	34.0(0.7) 211.0(1.4)@	28.5(1.8) 210.8(2.8)	34.9(1.0) 215.3(1.5)	31.7(0.8) 221.5(1.2)	33.0(0.8) 224.2(1.4)	30.2(0.8) 223.4(1.9)	33.3(0.9) 219.2(1.3)	L

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WEIGHTED PERCENTAGES AND AVERAGE SCALE SCORES ACROSS ASSESSMENT YEARS

	1977	1982	1986	1990	1992	1994	1996	
Type Of School								
Public	88.8(1.2) 218.0(1.4)@	90.4(2.3) 219.7(2.0)	83.9(2.7) 222.6(1.4)	88.9(2.1) 227.7(0.9)	86.6(1.6) 229.1(1.0)	88.1(1.8) 229.5(1.4)	86.8(1.5) 228.5(1.3)	L
Non-Public	11.2(1.2) 234.6(2.2)	9.6(2.3) 231.5(3.2)	16.1(2.7) 233.0(2.9)	11.1(2.1) 236.8(2.4)	13.4(1.6) 240.2(2.7)	11.9(1.8) 242.2(2.8)	13.2(1.5) 237.9(4.1)	L
Quartiles								
Upper	25.0(0.8) 265.6(0.9)@	25.0(1.7) 268.3(1.8)	25.0(0.9) 268.8(1.2)	24.9(0.8) 271.0(0.8)	25.1(0.8) 272.7(1.2)	25.0(0.8) 273.9(1.1)	25.1(1.2) 275.5(1.0)	L
Middle two	50.0(0.8) 222.1(0.5)@	50.1(1.5) 221.7(1.1)	49.9(0.9) 225.8(0.6)	50.2(0.9) 231.0(0.5)	50.0(0.8) 232.5(0.7)	49.9(0.6) 233.5(1.1)	49.9(1.0) 231.1(1.1)	L
Lower	25.0(1.2) 169.6(1.1)@	24.9(1.5) 171.4(2.0)	25.0(1.3) 176.7(1.0)	25.0(0.9) 181.9(0.9)	24.9(0.9) 184.4(1.2)	25.0(0.7) 183.1(1.2)	25.0(1.0) 181.2(1.3)	L
TELEVISION WATCHED/DAY								
0 - 2 HOURS	****(****) ****(****)	****(****) ****(****)	29.3(0.9)@ 226.0(2.1)@	37.3(0.9) 231.3(1.3)	39.9(1.0) 233.7(1.3)	43.4(1.0) 233.1(1.8)	46.6(1.1) 234.1(1.5)	L
3 - 5 HOURS	****(****) ****(****)	****(****) ****(****)	40.1(0.8)@ 230.0(1.4)	39.3(0.7) 233.1(1.2)	40.6(0.8) 234.0(1.2)	37.6(0.9) 235.7(1.5)	35.6(1.0) 232.0(1.7)	
6 HOURS OR MORE	****(****) ****(****)	****(****) ****(****)	30.6(1.1)@ 215.2(1.5)	23.4(0.8) 217.0(1.5)	19.4(0.8) 217.6(1.6)	19.0(0.8) 217.1(1.7)	17.8(0.9) 214.7(2.2)	

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	1977	1982	1986	1990	1992	1994	1996	
RULES CONCERNING TELEVISION VIEWING								
HAVE RULES	*****(****) *****(****)	*****(****) *****(****)	36.9(0.7)@ 223.0(1.5)@	38.4(0.7) 228.1(1.5)	38.8(1.0) 231.0(1.2)	42.0(0.9) 231.5(1.3)	43.8(1.1) 232.9(1.6)	L
DO NOT HAVE RULES	*****(****) *****(****)	*****(****) *****(****)	63.1(0.7)@ 225.3(1.4)	61.6(0.7) 229.1(0.8)	61.2(1.0) 230.6(1.0)	58.0(0.9) 230.8(1.4)	56.2(1.1) 227.8(1.4)	q
MOTHER'S EDUCATION								
LESS THAN H.S.	*****(****) *****(****)	7.5(1.0) 197.4(4.8)@	5.5(0.4) 207.2(3.6)	6.0(0.4) 212.2(2.6)	5.1(0.3) 216.2(3.5)	4.4(0.4) 211.5(3.0)	4.5(0.5) 213.3(3.2)	L
GRADUATED H.S.	*****(****) *****(****)	13.0(1.0) 222.7(3.1)	17.5(0.8) 224.7(1.4)	17.3(0.7) 229.8(1.5)	15.4(0.7) 226.2(1.8)	15.5(0.6) 228.8(1.9)	13.8(0.7) 226.7(2.0)	
SOME EDUC AFTER H.S	*****(****) *****(****)	7.4(0.6) 236.7(5.4)	6.0(0.4) 239.7(2.5)	6.8(0.3) 243.4(2.2)	7.4(0.3) 241.1(2.4)	7.1(0.4) 240.9(2.5)	6.6(0.4) 245.6(3.1)	
GRADUATED COLLEGE	*****(****) *****(****)	32.6(1.9) 233.0(2.6)	28.9(1.1) 235.5(1.3)	31.1(1.0) 236.4(1.4)	32.2(1.1) 239.6(1.3)	35.8(0.7) 238.6(1.4)	34.8(1.2) 241.5(1.7)	L
UNKNOWN	*****(****) *****(****)	39.5(1.8) 211.9(1.9)@	42.0(1.1) 216.7(1.5)	38.8(0.7) 222.1(1.2)	39.9(0.9) 225.2(1.2)	37.2(0.8) 225.3(1.8)	40.4(1.0) 220.3(1.2)	Lq
FATHER'S EDUCATION								
LESS THAN H.S.	*****(****) *****(****)	8.5(1.1)@ 205.3(3.5)	4.7(0.3) 211.9(4.6)	5.1(0.4) 218.5(3.2)	4.3(0.3) 219.2(2.2)	4.6(0.4) 216.5(2.6)	4.2(0.4) 214.6(2.8)	
GRADUATED H.S.	*****(****) *****(****)	17.1(1.3)@ 224.8(3.0)	14.4(0.6) 221.2(1.6)	14.7(0.5) 227.4(1.5)	12.7(0.6) 226.3(1.6)	13.1(0.6) 227.9(1.5)	12.4(0.6) 225.8(2.1)	
SOME EDUC AFTER H.S	*****(****) *****(****)	8.0(0.9) 231.7(4.2)	5.5(0.5) 236.6(3.0)	5.9(0.4) 237.4(2.1)	6.8(0.4) 236.9(2.5)	6.0(0.4) 237.6(3.3)	6.1(0.4) 241.2(2.3)	
GRADUATED COLLEGE	*****(****) *****(****)	33.2(2.2) 229.0(2.7)@	29.9(1.1) 237.9(1.6)	31.0(1.1) 237.9(1.5)	32.8(1.1) 239.9(1.3)	34.8(0.9) 240.7(1.4)	32.0(1.1) 241.6(2.0)	L
UNKNOWN	*****(****) *****(****)	33.3(2.1)@ 212.2(2.6)@	45.5(1.0) 216.3(1.2)	43.2(0.8) 222.6(1.0)	43.3(0.9) 225.2(1.2)	41.5(0.9)@ 224.8(1.4)	45.2(0.9) 222.7(1.3)	L

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TIME SPENT ON HOMEWORK								
NONE	*****(****) *****(****)	*****(****) *****(****)	5.4(0.8) 221.9(4.2)	4.3(0.7) 227.1(4.3)	3.8(0.6) 228.7(2.9)	2.7(0.4) 227.2(4.4)	3.2(0.6) 215.0(6.4)	
15 MINUTES OR LESS	*****(****) *****(****)	*****(****) *****(****)	23.3(1.0)@ 217.4(1.9)	26.3(0.7) 221.4(1.3)	28.2(1.0) 224.3(1.4)	30.2(1.0) 223.3(1.8)	28.9(1.2) 223.0(1.8)	
1/2 HOUR	*****(****) *****(****)	*****(****) *****(****)	31.0(0.8) 229.9(1.6)@	32.1(0.7) 234.3(1.3)	33.1(0.8) 235.9(1.2)	33.1(0.7) 237.1(1.4)	34.3(1.0) 236.4(1.7)	L
1 HOUR	*****(****) *****(****)	*****(****) *****(****)	23.5(0.8) 226.0(1.5)@	22.5(0.6) 231.7(1.4)	20.6(0.7) 233.0(1.4)	21.6(1.0) 234.1(1.6)	20.7(0.7) 232.9(1.9)	L
MORE THAN 1 HOUR	*****(****) *****(****)	*****(****) *****(****)	16.7(0.7)@ 221.9(2.1)	14.8(0.6) 225.5(1.9)	14.2(0.8) 228.2(1.6)	12.5(0.6) 229.3(2.2)	12.9(0.6) 226.8(2.6)	
COMPUTER USAGE								
HAVE USED	*****(****) *****(****)	*****(****) *****(****)	75.3(1.2)@ 229.0(1.2)@	79.3(0.7) 232.8(0.9)	81.8(0.8) 234.2(1.0)	81.9(0.9) 234.4(1.1)	82.4(0.9) 234.0(1.3)	L
HAVE NOT USED	*****(****) *****(****)	*****(****) *****(****)	24.7(1.2)@ 210.3(1.9)	20.7(0.7) 213.1(1.5)	18.2(0.8) 214.9(1.5)	18.1(0.9) 216.2(2.2)	17.6(0.9) 211.5(2.0)	
FAMILY OWNS A COMPUTER								
YES	*****(****) *****(****)	*****(****) *****(****)	27.8(1.3)@ 233.0(1.5)@	31.1(1.1) 236.0(1.3)	33.5(1.0) 238.5(1.3)	40.6(1.2)@ 239.9(1.2)	48.9(1.1) 238.9(1.6)	L
NO	*****(****) *****(****)	*****(****) *****(****)	72.2(1.3)@ 221.0(1.4)	68.9(1.1) 225.4(0.9)	66.5(1.0) 226.7(1.0)	59.4(1.2)@ 225.0(1.3)	51.1(1.1) 221.5(1.4)	q
MOTHER/STEPMOTHER EMPLOYMENT								
HAS A JOB	*****(****) *****(****)	*****(****) *****(****)	63.7(1.1)@ 226.1(1.3)	71.2(0.9) 229.8(0.8)	72.4(0.7) 231.5(1.1)	72.0(0.9) 232.6(1.1)	72.2(0.9) 230.5(1.3)	L
DOES NOT HAVE A JOB	*****(****) *****(****)	*****(****) *****(****)	34.5(1.1)@ 222.1(2.1)@	26.8(0.8) 227.4(1.6)	25.1(0.6) 229.2(1.3)	25.5(0.9) 228.5(1.6)	25.8(0.9) 229.9(1.8)	L
MTHR LIVES ELSEWHERE	*****(****) *****(****)	*****(****) *****(****)	1.8(0.2) 209.8(5.8)	2.0(0.2) 216.7(4.4)	2.4(0.2) 218.0(4.0)	2.5(0.3) 213.6(4.5)	2.1(0.2) 213.3(3.9)	

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FATHER/STEPFATHER EMPLOYMENT								
HAS A JOB	*****(****) *****(****)	*****(****) *****(****)	84.2(0.8) 227.0(1.2)@	84.4(0.6) 230.8(0.9)	83.9(0.5) 232.7(1.0)	84.3(0.7) 233.1(1.1)	83.2(0.6) 232.1(1.3)	L
DOES NOT HAVE A JOB	*****(****) *****(****)	*****(****) *****(****)	8.2(0.6) 206.6(2.9)	6.4(0.4) 216.5(2.3)	7.0(0.3) 217.8(2.3)	6.9(0.5) 217.6(3.4)	7.0(0.5) 212.4(2.8)	q
FTHR LIVES ELSEWHERE	*****(****) *****(****)	*****(****) *****(****)	7.6(0.5)@ 216.2(2.4)	9.2(0.4) 220.4(1.9)	9.2(0.4) 221.3(2.2)	8.8(0.5) 222.5(2.9)	9.8(0.4) 224.2(2.2)	L
SCIENCE CLASS								
EVERY DAY	*****(****) *****(****)	*****(****) *****(****)	27.8(2.0) 226.5(2.1)	33.6(1.6) 229.4(1.5)	33.1(1.9) 232.8(1.3)	32.9(1.8) 232.6(1.5)	29.7(1.6) 234.1(2.0)	L
SEVERAL/WEEK	*****(****) *****(****)	*****(****) *****(****)	30.8(1.5) 232.2(1.7)	32.4(1.0) 235.1(1.3)	32.3(1.1) 237.5(1.4)	28.1(1.3) 238.5(1.3)	31.4(1.3) 237.0(1.7)	
ABOUT ONCE/WEEK	*****(****) *****(****)	*****(****) *****(****)	18.7(1.1) 222.2(2.1)	17.5(1.2) 227.4(1.8)	16.4(1.0) 226.0(2.2)	18.5(0.9) 227.9(1.7)	18.3(0.8) 224.7(2.1)	
< ONCE/WEEK	*****(****) *****(****)	*****(****) *****(****)	6.0(0.5) 218.9(3.4)	5.0(0.4) 219.9(2.9)	5.4(0.4) 223.1(3.1)	5.9(0.5) 226.4(4.0)	6.1(0.4) 223.4(4.7)	
HARDLY EVER OR NONE	*****(****) *****(****)	*****(****) *****(****)	16.7(1.3) 210.7(2.5)	11.5(0.9) 214.7(2.3)	12.8(1.0) 217.0(2.5)	14.6(1.2) 219.0(2.6)	14.6(0.9) 216.2(1.6)	
SHADOW EXPERIMENTS								
HAVE DONE	41.7(1.6) 222.4(3.1)@	45.3(1.6) 223.1(2.4)	39.0(1.4) 225.5(2.2)	41.0(1.5) 233.2(2.6)	44.0(1.6) 233.5(2.0)	41.8(1.7) 235.1(2.5)	38.0(1.7) 233.3(2.9)	L
HAVE NOT DONE	54.9(1.7) 219.5(1.9)@	49.9(1.5) 219.3(1.9)	54.8(1.4) 225.1(1.6)	53.0(1.4) 229.3(1.7)	51.0(1.6) 230.1(1.7)	52.5(1.7) 233.7(1.8)	54.1(1.9) 230.6(2.4)	L
NOT CERTAIN	3.3(0.6)@ 176.7(8.3)@	4.8(0.6) 217.1(5.5)	6.2(0.6) 197.4(5.7)	6.0(0.6) 208.9(5.4)	5.0(0.5) 205.7(3.1)	5.7(0.7) 211.9(4.3)	7.9(0.7) 202.9(4.5)	Lq

@ This value is significantly different from the value for 1996 at about the 95 percent certainty level.
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 (****) Standard error estimates cannot be accurately determined.
 *****(****) Sample size is insufficient to permit a reliable estimate.

WEIGHTED PERCENTAGES AND AVERAGE SCALE SCORES ACROSS ASSESSMENT YEARS

	1977	1982	1986	1990	1992	1994	1996	
LIVING PLANTS EXPERIMENTS								
HAVE DONE	70.2(1.4) 221.3(2.3)@	65.3(1.6) 224.1(2.3)	59.8(1.6) 226.5(1.5)	63.5(1.4) 234.4(1.5)	63.5(1.1) 233.5(1.6)	65.5(1.5) 237.3(1.8)	67.3(1.5) 234.3(2.4)	L
HAVE NOT DONE	26.6(1.3) 217.0(2.8)	29.4(1.4) 216.1(2.4)	35.5(1.6) 221.2(2.6)	32.6(1.3) 222.7(2.5)	32.3(1.0) 226.2(1.8)	29.6(1.4) 226.1(3.4)	27.6(1.5) 223.6(2.6)	L
NOT CERTAIN	3.2(0.5) 193.7(7.6)	5.3(0.7) 208.5(8.0)	4.7(0.5) 202.7(7.0)	3.9(0.5) 214.0(5.0)	4.2(0.4) 214.7(5.7)	5.0(0.7) 217.9(6.1)	5.2(1.0) 199.5(4.8)	
LIVING ANIMAL EXPERIMENTS								
HAVE DONE	55.4(1.5)@ 215.6(2.8)@	54.7(1.4) 219.3(2.3)	45.2(1.0) 221.0(1.8)	42.5(1.6) 228.4(2.3)	39.5(1.3) 227.1(1.8)	41.0(1.2) 230.5(2.7)	42.8(1.4) 227.0(2.9)	L
HAVE NOT DONE	41.5(1.3)@ 227.0(2.1)	40.5(1.2) 224.0(2.1)	49.6(1.1) 228.2(2.0)	52.8(1.6) 232.2(1.8)	56.9(1.3) 233.8(1.8)	55.3(1.4) 236.0(1.9)	52.6(1.5) 233.0(2.1)	L
NOT CERTAIN	3.1(0.5) 182.9(8.8)@	4.9(0.5) 213.5(7.2)	5.2(0.6) 199.1(6.0)	4.7(0.6) 220.6(6.1)	3.5(0.3) 212.5(5.8)	3.8(0.7) 220.0(8.2)	4.6(0.5) 215.4(6.7)	L
BATTERIES & BULBS EXPERIMENTS								
HAVE DONE	51.4(1.4) 225.0(2.8)	53.6(1.6) 223.9(2.1)	43.3(1.5) 228.0(1.9)	47.4(1.7) 234.0(2.0)	48.6(1.9) 233.1(1.8)	51.1(1.7) 236.6(2.1)	52.1(2.2) 234.3(2.9)	L
HAVE NOT DONE	43.4(1.4) 216.7(2.1)@	40.2(1.5) 219.2(2.3)	51.1(1.7) 223.5(2.1)	47.3(1.7) 228.1(1.9)	46.0(1.9) 230.6(1.7)	42.9(1.7) 231.8(2.6)	41.2(2.1) 227.1(2.8)	L
NOT CERTAIN	5.2(0.6) 184.2(4.2)@	6.2(0.5) 206.1(5.5)	5.6(0.6) 195.1(4.4)	5.3(0.5) 216.7(4.7)	5.4(0.5) 211.5(5.4)	6.0(0.8) 212.2(6.5)	6.7(0.6) 214.4(5.7)	L
DISSOLVING IN WATER EXPERIMENTS								
HAVE DONE	69.2(1.4) 223.4(2.0)@	64.1(1.8) 224.7(2.2)	60.7(1.2) 227.2(1.7)	65.1(1.3) 232.5(1.7)	63.9(1.4) 233.1(1.4)	66.2(1.6) 234.8(1.9)	64.2(1.7) 234.7(2.6)	L
HAVE NOT DONE	25.7(1.2) 214.5(2.6)@	28.6(1.6) 216.0(2.5)	31.6(1.3) 222.3(2.1)	28.4(1.1) 228.4(2.8)	28.8(1.3) 228.5(2.2)	27.4(1.4) 231.2(3.1)	27.9(1.4) 225.1(2.6)	L
NOT CERTAIN	5.2(0.6)@ 187.5(5.1)@	7.2(0.6) 206.6(4.7)	7.7(0.9) 203.4(3.5)	6.5(0.6) 215.5(5.4)	7.3(0.6) 217.8(4.1)	6.5(0.6) 221.5(5.0)	7.9(0.8) 205.5(4.5)	Lq

@ This value is significantly different from the value for 1996 at about the 95 percent certainty level.

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WEIGHTED PERCENTAGES AND AVERAGE SCALE SCORES ACROSS ASSESSMENT YEARS

	1977	1982	1986	1990	1992	1994	1996	
METER STICK USAGE								
HAVE USED	41.9(2.4)@ 222.4(2.3)@	64.3(1.8) 225.4(2.2)	64.7(1.7) 228.3(1.9)	66.1(1.3) 233.1(1.5)	68.1(1.3) 234.2(1.4)	65.9(1.9) 234.6(1.7)	64.0(1.8) 235.7(2.1)	L
HAVE NOT USED	49.6(2.2)@ 215.1(2.7)@	29.5(1.5) 212.3(3.1)	27.1(1.5) 222.6(2.7)	25.1(1.3) 224.7(2.0)	23.3(1.1) 227.7(2.6)	24.2(1.6) 223.5(2.6)	25.4(1.7) 225.6(2.7)	L
NOT CERTAIN	8.6(0.7) 209.9(5.6)	6.3(0.9) 213.9(5.9)	8.2(0.6) 214.1(4.1)	8.7(0.7) 216.6(4.8)	8.6(0.8) 226.5(3.7)	9.9(0.8) 229.3(5.2)	10.6(0.8) 223.6(5.4)	L
SCALE USAGE								
HAVE USED	88.8(0.8) 219.9(2.3)@	85.6(0.9) 223.4(1.9)	86.1(1.0) 228.0(1.6)	89.1(0.9) 231.7(1.2)	90.6(0.7) 233.6(1.4)	90.8(1.0) 233.5(1.5)	88.9(0.8) 234.6(1.8)	L
HAVE NOT USED	8.9(0.7) 201.9(4.5)@	12.3(0.8) 207.1(2.6)	11.3(0.8) 212.3(3.2)	9.3(0.8) 216.1(4.4)	7.5(0.5) 217.9(4.0)	7.1(0.8) 213.1(4.0)	8.9(0.6) 216.9(4.0)	L
NOT CERTAIN	2.2(0.4) ***** (****)	2.1(0.3) ***** (****)	2.6(0.5) ***** (****)	1.6(0.3) ***** (****)	1.9(0.3) ***** (****)	2.1(0.4) ***** (****)	2.2(0.4) ***** (****)	NA
MAGNIFYING GLASS USAGE								
HAVE USED	86.9(1.0)@ 221.1(2.1)@	83.7(1.3) 224.4(1.8)	87.7(0.9) 228.5(1.6)	88.8(0.7) 232.6(1.3)	91.3(0.9) 234.2(1.3)	91.0(1.0) 233.5(1.5)	91.9(0.9) 235.1(1.8)	L
HAVE NOT USED	10.7(0.8)@ 198.6(4.3)	14.5(1.2) 205.5(3.6)	10.3(0.7) 206.2(3.0)	9.1(0.6) 211.1(4.3)	7.5(0.8) 210.4(4.3)	7.7(0.8) 210.1(5.4)	6.8(0.8) 198.7(4.6)	q
NOT CERTAIN	2.4(0.3)@ ***** (****)	1.8(0.2) ***** (****)	2.0(0.4) ***** (****)	2.1(0.3) ***** (****)	1.2(0.2) ***** (****)	1.2(0.2) ***** (****)	1.3(0.3) ***** (****)	NA
TELESCOPE USAGE								
HAVE USED	44.0(1.2)@ 221.7(2.6)@	44.8(1.6) 224.0(2.1)	56.2(1.5) 230.3(2.1)	64.9(1.5) 233.0(1.4)	63.6(1.1) 235.2(1.5)	62.0(1.4) 234.5(1.5)	59.9(1.6) 236.1(2.3)	L
HAVE NOT USED	52.7(1.0)@ 216.4(2.1)@	51.6(1.5) 219.9(2.0)	41.3(1.4) 220.3(2.0)	33.0(1.5) 225.6(1.9)	33.9(1.0) 227.3(2.2)	35.3(1.4) 226.2(2.2)	37.2(1.6) 226.5(2.1)	L
NOT CERTAIN	3.3(0.5) 195.8(7.2)	3.6(0.5) 198.2(6.1)	2.5(0.5) ***** (****)	2.2(0.4) ***** (****)	2.6(0.4) 213.7(6.4)	2.7(0.5) ***** (****)	2.8(0.4) ***** (****)	NA

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WEIGHTED PERCENTAGES AND AVERAGE SCALE SCORES ACROSS ASSESSMENT YEARS

	1977	1982	1986	1990	1992	1994	1996	
THERMOMETER USAGE								
HAVE USED	83.7(1.0)@ 221.8(2.2)@	82.2(1.1) 224.0(1.8)	87.8(0.8) 227.5(1.5)	90.7(1.0) 232.1(1.3)	91.3(0.6) 233.5(1.4)	89.0(1.1) 233.8(1.5)	90.6(0.8) 234.1(1.8)	L
HAVE NOT USED	13.8(0.9)@ 199.2(2.7)	14.6(1.3) 210.2(3.0)	10.1(0.8) 210.4(4.8)	7.6(0.9) 209.3(5.1)	7.4(0.5) 217.0(3.5)	8.6(0.8) 214.3(4.7)	7.2(0.7) 207.8(5.1)	L
NOT CERTAIN	2.5(0.4) ***** (****)	3.1(0.5) ***** (****)	2.1(0.3) ***** (****)	1.6(0.3) ***** (****)	1.3(0.3) ***** (****)	2.4(0.5) ***** (****)	2.2(0.4) ***** (****)	NA
MICROSCOPE USAGE								
HAVE USED	52.8(1.4) 222.4(2.5)@	47.6(2.2) 225.4(2.0)	53.7(1.6) 231.4(1.8)	62.9(1.7) 235.6(1.4)	62.3(1.4) 236.7(1.5)	58.3(1.8) 236.3(2.0)	58.2(1.9) 238.3(2.2)	L
HAVE NOT USED	42.9(1.5)@ 214.2(2.1)@	47.5(2.0) 217.5(2.0)	42.1(1.7) 218.7(2.4)	32.5(1.5) 221.5(1.9)	33.3(1.4) 224.8(2.0)	36.0(1.8) 224.6(1.9)	35.6(1.7) 224.2(1.8)	L
NOT CERTAIN	4.3(0.5)@ 200.9(6.6)	5.0(0.5) 209.8(4.5)	4.2(0.4) 215.6(4.6)	4.6(0.5) 215.7(5.1)	4.4(0.4) 221.1(5.7)	5.7(0.6) 221.0(4.5)	6.3(0.5) 215.5(5.7)	L
DIRECTIONAL COMPASS USAGE								
HAVE USED	61.3(1.3)@ 222.3(2.3)@	58.7(1.6) 224.3(2.2)	65.4(1.7) 230.8(1.7)	71.3(1.1) 233.6(1.4)	71.7(1.0) 236.1(1.5)	75.4(1.3) 235.5(1.6)	72.6(1.1) 235.1(1.8)	L
HAVE NOT USED	32.9(1.2)@ 214.0(2.7)@	35.0(1.3) 218.4(2.0)	29.8(1.5) 218.6(2.5)	24.7(1.0) 223.5(2.7)	24.3(1.0) 223.3(2.3)	21.2(1.2) 220.2(2.2)	23.1(1.1) 225.4(2.6)	L
NOT CERTAIN	5.8(0.7) 191.1(4.3)	6.3(0.9) 202.8(4.2)	4.7(0.6) 197.7(3.7)	4.0(0.5) 204.7(7.6)	3.9(0.5) 212.7(4.3)	3.4(0.4) 216.0(7.8)	4.3(0.5) 206.0(5.8)	L
STOPWATCH USAGE								
HAVE USED	44.0(1.3)@ 222.9(2.6)@	50.8(2.2) 228.6(2.4)	62.1(1.6) 229.2(1.7)	73.9(1.1) 233.1(1.4)	76.9(1.4) 235.3(1.3)	75.4(1.3) 234.5(1.4)	76.9(1.1) 236.2(1.9)	L
HAVE NOT USED	49.0(1.2)@ 215.2(2.5)	41.4(1.6) 214.9(1.6)	32.8(1.4) 221.2(2.2)	22.7(1.1) 222.5(2.1)	20.3(1.3) 221.4(2.8)	20.7(1.1) 223.2(2.7)	20.1(0.9) 219.3(2.9)	L
NOT CERTAIN	7.0(0.7)@ 202.9(3.6)	7.8(1.0) 202.2(6.2)	5.1(0.5) 206.3(5.3)	3.4(0.4) 212.0(5.0)	2.9(0.3) 220.6(5.8)	3.9(0.5) 213.3(6.5)	3.0(0.5) 204.2(7.9)	

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WEIGHTED PERCENTAGES AND AVERAGE SCALE SCORES ACROSS ASSESSMENT YEARS

	1977	1982	1986	1990	1992	1994	1996	
YARDSTICK USAGE								
HAVE USED	85.6(0.8)@ 221.7(2.2)@	82.5(1.2) 224.7(1.6)	78.3(1.1) 228.3(1.7)	78.4(1.1) 232.7(1.3)	80.3(1.0) 233.8(1.4)	80.1(1.3) 234.0(1.4)	79.2(1.4) 235.2(2.0)	L
HAVE NOT USED	12.4(0.8)@ 196.4(3.7)@	14.8(1.1) 203.4(3.7)	18.4(1.0) 216.0(2.7)	18.0(1.0) 220.9(2.8)	17.0(1.0) 224.7(3.1)	16.3(1.2) 222.1(2.9)	17.0(1.2) 223.0(2.9)	L
NOT CERTAIN	2.0(0.3)@ ***** (****)	2.7(0.4) ***** (****)	3.4(0.3) 211.9(6.4)	3.7(0.4) 217.9(6.2)	2.7(0.4) 224.8(5.3)	3.5(0.4) 220.3(6.7)	3.8(0.5) 212.4(7.0)	L
CALCULATOR USAGE								
HAVE USED	86.9(1.2)@ 221.5(2.2)@	91.4(0.8) 223.4(1.7)	95.9(0.5) 226.6(1.6)	97.3(0.4) 230.8(1.3)	97.6(0.3) 232.7(1.4)	97.4(0.4) 232.3(1.5)	97.1(0.5) 233.3(1.8)	L
HAVE NOT USED	11.2(1.0)@ 195.1(3.4)	7.3(0.7) 196.7(5.9)	3.2(0.4) 206.3(6.0)	2.2(0.4) ***** (****)	2.0(0.3) ***** (****)	2.1(0.3) ***** (****)	1.8(0.3) ***** (****)	NA
NOT CERTAIN	1.9(0.3) ***** (****)	1.3(0.3) ***** (****)	1.0(0.3) ***** (****)	0.5(0.2) ***** (****)	0.4(0.1) ***** (****)	0.5(0.2) ***** (****)	1.1(0.3) ***** (****)	NA
BALANCE USAGE								
HAVE USED	37.6(1.0)@ 216.1(2.9)@	30.1(1.2) 220.3(2.8)	34.5(1.6) 225.7(1.6)	44.8(1.7) 233.0(1.6)	45.9(1.5) 232.0(1.8)	47.3(1.7) 232.1(1.9)	49.6(1.9) 233.0(2.3)	L
HAVE NOT USED	43.7(1.2)@ 217.5(2.5)@	50.6(1.2) 220.7(2.1)	45.4(1.6) 224.3(2.9)	39.9(1.3) 226.6(2.2)	36.4(1.0) 230.4(1.6)	35.2(1.3) 228.3(2.5)	30.8(1.5) 229.8(2.6)	L
NOT CERTAIN	18.7(1.0) 221.2(3.0)@	19.2(1.3) 222.2(3.0)	20.1(1.0) 227.7(2.8)	15.3(1.2) 230.2(3.3)	17.7(1.0) 235.6(2.8)	17.4(1.1) 235.5(2.6)	19.5(1.3) 233.7(3.1)	L
DIFFERENCES								
WHITE - BLACK	65.9(2.2)@ 54.7(2.0)@	64.3(3.3) 42.0(3.6)	61.7(1.2) 35.7(2.2)	58.2(1.3) 41.1(2.1)	59.4(1.0) 38.8(2.9)	59.1(1.0) 38.9(2.2)	55.9(1.2) 37.1(3.3)	LQ
WHITE - HISPANIC	74.3(1.8)@ 37.7(2.8)	73.4(2.9) 40.1(4.6)	70.3(1.5) 32.5(3.3)	69.0(1.2) 31.2(2.4)	69.7(1.2) 34.4(3.0)	68.0(1.0)@ 39.4(3.0)	63.5(1.5) 31.9(3.1)	
MALE - FEMALE	1.1(0.6) 4.5(1.8)	1.1(****) 0.3(3.0)	0.0(****) 5.9(2.0)	-1.1(****) 3.2(1.5)	-2.8(0.8) 8.0(1.6)	-2.1(1.1) 2.2(1.9)	-0.9(****) 3.4(2.3)	

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***** (****) Sample size is insufficient to permit a reliable estimate.

WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 150

	1977	1982	1986	1990	1992	1994	1996
-- Total --	93.5(0.6)@	95.2(0.7)	96.2(0.3)	97.0(0.3)	97.4(0.3)	97.2(0.4)	96.8(0.4)
Gender							
Male	94.3(0.5)@	95.0(1.0)	96.8(0.5)	96.8(0.5)	97.7(0.3)	97.1(0.4)	96.9(0.5)
Female	92.8(0.7)@	95.5(1.2)	95.6(0.6)	97.1(0.4)	97.1(0.5)	97.3(0.5)	96.6(0.6)
Race/Ethnicity							
White	97.7(0.3)	98.3(0.4)	98.2(0.3)	99.2(0.2)	99.2(0.1)	99.1(0.3)	98.6(0.3)
Black	72.4(1.8)@	82.1(3.0)	88.6(1.4)	88.0(1.3)	90.7(1.8)	91.0(1.5)	91.0(1.6)
Hispanic	84.6(1.8)@	85.1(3.1)	89.6(2.4)	93.6(1.5)	92.4(1.7)	91.1(2.3)	92.6(1.9)
Other	94.9(2.4)	****(****)	95.9(1.8)	96.3(****)	96.3(1.8)	93.9(1.7)	94.6(2.0)
Grade							
Below Modal Grade	86.2(1.1)@	88.5(1.9)	91.8(0.8)	93.2(0.9)	94.5(0.7)	94.3(0.9)	94.0(0.8)
At Modal Grade	95.9(0.6)@	98.1(0.6)	98.5(0.3)	99.0(0.3)	99.2(0.2)	98.6(0.3)	98.2(0.3)
Above Modal Grade	96.4(2.2)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
Region							
Northeast	94.6(0.7)@	94.5(1.4)	96.7(0.9)	97.1(0.6)	97.9(0.9)	97.9(0.5)	97.3(0.6)
Southeast	87.8(1.8)@	92.7(1.6)	95.0(1.2)	94.6(0.9)	95.6(0.5)	96.5(0.8)	95.8(1.0)
Central	95.5(0.8)	97.5(1.1)	97.1(0.6)	98.4(0.7)	98.7(0.5)	98.0(0.7)	97.2(0.8)
West	94.9(1.1)	95.4(1.3)	95.9(0.7)	97.7(0.7)	97.3(0.5)	96.3(0.8)	96.8(0.8)
Type Of Location							
Central City	****(****)	****(****)	****(****)	****(****)	****(****)	95.0(0.9)	95.5(0.7)
Urban Fringe/Large Tow	****(****)	****(****)	****(****)	****(****)	****(****)	98.3(0.4)	98.1(0.4)
Rural/Small Town	****(****)	****(****)	****(****)	****(****)	****(****)	98.1(0.9)	97.0(1.0)
Parents' Education Level							
Less than H.S.	86.0(1.7)	85.5(3.5)	90.1(3.4)	93.3(2.3)	96.0(1.5)	93.2(1.9)	91.8(1.8)
Graduated H.S.	95.0(0.5)	96.1(1.0)	95.6(0.6)	96.9(0.8)	95.2(0.7)	96.6(0.8)	96.4(1.1)
Some Educ After H.S.	97.1(0.9)	96.6(1.8)	98.0(1.1)	97.6(1.2)	97.6(1.0)	97.8(1.0)	98.5(0.4)
Graduated College	96.8(0.6)	97.2(0.7)	98.0(0.4)	98.1(0.4)	98.5(0.5)	98.2(0.3)	98.3(0.3)
Unknown	91.4(0.8)@	93.8(1.9)	95.0(0.6)	96.0(0.6)	97.1(0.5)	96.3(0.8)	95.2(0.8)
Type Of School							
Public	93.0(0.7)@	94.9(0.8)	95.8(0.4)	96.7(0.4)	97.1(0.4)	96.9(0.4)	96.7(0.5)
Non-Public	98.1(0.6)	98.9(****)	98.2(0.7)	98.7(****)	99.2(****)	99.3(0.4)	97.2(1.2)
Quartiles							
Upper	100.0(****)	100.0(****)	100.0(****)	100.0(****)	100.0(****)	100.0(****)	100.0(****)
Middle two	99.5(0.1)	100.0(****)	99.8(0.1)	100.0(****)	100.0(****)	100.0(****)	99.9(****)
Lower	75.2(1.4)@	81.0(2.5)	85.2(1.1)	87.9(1.2)	89.6(1.3)	88.8(1.3)	87.3(1.5)

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 (****) Standard error estimates cannot be accurately determined.

****(****) Sample size is insufficient to permit a reliable estimate.

WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 150

	1977	1982	1986	1990	1992	1994	1996
TELEVISION WATCHED/DAY							
0 - 2 HOURS	*****(****)	*****(****)	96.1(0.6)	97.5(0.5)	97.9(0.4)	97.5(0.6)	97.0(0.5)
3 - 5 HOURS	*****(****)	*****(****)	97.7(0.4)	97.9(0.5)	98.1(0.5)	97.9(0.4)	97.6(0.5)
6 HOURS OR MORE	*****(****)	*****(****)	94.3(0.7)	94.5(0.9)	95.1(0.8)	95.0(0.9)	94.5(1.5)
RULES CONCERNING TELEVISION VIEWING							
HAVE RULES	*****(****)	*****(****)	95.8(0.6)	96.7(0.7)	97.1(0.3)	97.0(0.5)	97.0(0.5)
DO NOT HAVE RULES	*****(****)	*****(****)	96.5(0.4)	97.1(0.4)	97.6(0.5)	97.3(0.4)	96.8(0.4)
MOTHER'S EDUCATION							
LESS THAN H.S.	*****(****)	87.3(2.9)	91.5(3.0)	94.9(2.1)	95.2(1.5)	93.1(2.1)	93.7(1.6)
GRADUATED H.S.	*****(****)	96.4(1.3)	96.3(0.6)	97.3(0.7)	95.9(0.5)	97.3(0.6)	96.7(0.8)
SOME EDUC AFTER H.S	*****(****)	97.5(****)	98.8(****)	98.0(1.1)	98.0(0.9)	97.8(1.2)	98.4(0.9)
GRADUATED COLLEGE	*****(****)	97.7(0.7)	98.2(0.4)	98.1(0.5)	98.6(0.5)	98.3(0.4)	98.5(0.3)
UNKNOWN	*****(****)	93.9(1.5)	95.1(0.7)	96.0(0.5)	97.2(0.4)	96.5(0.7)	95.5(0.7)
FATHER'S EDUCATION							
LESS THAN H.S.	*****(****)	89.1(2.4)	93.7(2.0)	94.9(2.1)	96.4(1.3)	93.8(2.2)	93.6(1.7)
GRADUATED H.S.	*****(****)	97.1(0.6)	96.1(0.6)	97.0(1.0)	96.2(0.9)	96.8(0.6)	97.0(0.9)
SOME EDUC AFTER H.S	*****(****)	96.3(2.1)	97.9(1.0)	98.0(1.1)	97.5(1.0)	97.9(1.0)	98.8(0.5)
GRADUATED COLLEGE	*****(****)	97.1(0.8)	98.2(0.5)	98.2(0.5)	98.5(0.5)	98.5(0.3)	98.3(0.3)
UNKNOWN	*****(****)	93.8(1.8)	95.0(0.5)	96.2(0.6)	97.0(0.4)	96.6(0.6)	95.7(0.7)
TIME SPENT ON HOMEWORK							
NONE	*****(****)	*****(****)	95.2(1.5)	96.5(1.7)	96.3(1.4)	95.7(2.6)	91.5(4.9)
15 MINUTES OR LESS	*****(****)	*****(****)	94.9(0.6)	95.7(0.9)	96.5(0.5)	96.4(0.6)	95.7(0.9)
1/2 HOUR	*****(****)	*****(****)	97.6(0.6)	98.0(0.5)	98.4(0.5)	98.1(0.4)	98.3(0.5)
1 HOUR	*****(****)	*****(****)	96.2(0.7)	97.2(0.4)	97.7(0.7)	97.2(0.9)	97.1(0.7)
MORE THAN 1 HOUR	*****(****)	*****(****)	95.9(0.8)	96.6(0.8)	97.0(0.6)	97.2(0.9)	96.0(0.8)
COMPUTER USAGE							
HAVE USED	*****(****)	*****(****)	97.3(0.3)	97.8(0.3)	98.0(0.3)	97.8(0.3)	97.7(0.4)
HAVE NOT USED	*****(****)	*****(****)	93.1(0.8)	93.9(1.0)	94.6(1.1)	94.6(1.0)	93.0(1.5)
FAMILY OWNS A COMPUTER							
YES	*****(****)	*****(****)	97.4(0.6)	97.7(0.6)	98.3(0.4)	98.6(0.4)	98.3(0.4)
NO	*****(****)	*****(****)	95.7(0.4)	96.6(0.4)	97.0(0.5)	96.3(0.4)	95.4(0.7)
MOTHER/STEPMOTHER EMPLOYMENT							
HAS A JOB	*****(****)	*****(****)	96.8(0.4)	97.3(0.4)	97.6(0.3)	97.5(0.3)	97.1(0.5)
DOES NOT HAVE A JOB	*****(****)	*****(****)	95.6(0.7)	96.3(0.5)	96.9(0.7)	96.4(0.8)	96.3(0.6)
MTHR LIVES ELSEWHERE	*****(****)	*****(****)	88.4(4.3)	95.0(1.9)	95.8(1.7)	96.2(1.8)	94.6(3.3)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 150

	1977	1982	1986	1990	1992	1994	1996
FATHER/STEFFATHER EMPLOYMENT							
HAS A JOB	*****(****)	*****(****)	97.0(0.4)	97.4(0.4)	97.8(0.3)	97.5(0.4)	97.3(0.4)
DOES NOT HAVE A JOB	*****(****)	*****(****)	90.8(2.0)	93.2(1.5)	94.7(1.3)	95.0(1.4)	93.0(1.7)
FTHR LIVES ELSEWHERE	*****(****)	*****(****)	93.9(1.3)	95.4(1.0)	95.9(1.5)	95.8(1.4)	95.9(1.3)
SCIENCE CLASS							
EVERY DAY	*****(****)	*****(****)	96.5(0.7)	97.0(0.7)	97.5(0.5)	97.5(0.5)	97.5(0.6)
SEVERAL/WEEK	*****(****)	*****(****)	97.4(0.6)	98.3(0.4)	98.6(0.3)	98.3(0.4)	97.7(0.6)
ABOUT ONCE/WEEK	*****(****)	*****(****)	96.2(0.8)	97.1(1.0)	97.2(0.8)	97.1(0.6)	96.3(0.9)
< ONCE/WEEK	*****(****)	*****(****)	96.1(1.1)	94.5(1.9)	95.7(1.6)	95.2(2.0)	95.0(2.2)
HARDLY EVER OR NONE	*****(****)	*****(****)	93.7(0.9)	93.9(1.6)	95.1(1.4)	95.4(1.3)	95.0(0.8)
SHADOW EXPERIMENTS							
HAVE DONE	92.8(1.6)	94.8(1.0)	95.9(1.0)	98.3(0.6)	97.5(0.6)	97.8(0.8)	96.9(0.9)
HAVE NOT DONE	94.1(1.1)@	96.1(0.9)	96.5(0.8)	97.5(0.7)	97.5(0.8)	97.8(0.8)	97.8(0.5)
NOT CERTAIN	73.7(8.6)	91.0(4.3)	87.9(4.3)	91.9(2.8)	92.5(4.3)	93.3(3.4)	88.9(4.3)
LIVING PLANTS EXPERIMENTS							
HAVE DONE	93.4(1.1)@	95.8(0.7)	96.3(0.8)	97.9(0.6)	97.6(0.6)	97.9(0.6)	97.6(0.7)
HAVE NOT DONE	93.0(1.7)	94.8(1.5)	95.5(1.0)	97.1(0.9)	96.8(0.8)	97.1(1.1)	96.1(1.1)
NOT CERTAIN	79.9(7.3)	91.1(****)	89.7(4.2)	94.3(4.1)	94.0(3.0)	95.1(2.7)	90.9(5.7)
LIVING ANIMAL EXPERIMENTS							
HAVE DONE	91.5(1.3)@	95.0(0.9)	94.8(1.2)	97.1(0.8)	96.0(0.8)	97.0(1.1)	96.1(0.9)
HAVE NOT DONE	96.1(1.1)	96.2(0.8)	97.1(0.6)	98.1(0.8)	98.2(0.7)	98.1(0.6)	97.9(0.7)
NOT CERTAIN	74.6(11.6)	90.4(****)	88.6(4.1)	96.9(****)	93.0(4.4)	95.5(2.5)	92.7(3.1)
BATTERIES & BULBS EXPERIMENTS							
HAVE DONE	94.5(1.1)@	95.7(1.0)	97.1(1.1)	98.0(0.6)	97.6(0.8)	97.9(0.7)	97.9(0.7)
HAVE NOT DONE	92.7(1.4)	95.1(0.9)	95.9(0.8)	97.5(0.7)	97.6(0.7)	97.8(0.7)	96.2(1.3)
NOT CERTAIN	78.4(4.6)@	92.2(3.4)	86.5(4.1)	95.7(2.5)	92.4(3.3)	93.4(3.3)	93.8(2.6)
DISSOLVING IN WATER EXPERIMENTS							
HAVE DONE	94.1(1.2)@	96.0(0.7)	96.7(0.6)	98.0(0.6)	97.7(0.6)	98.0(0.8)	98.0(0.4)
HAVE NOT DONE	91.8(1.4)	94.9(1.1)	95.4(1.2)	97.4(1.0)	96.9(1.2)	97.3(0.9)	96.2(1.4)
NOT CERTAIN	81.1(5.8)	89.7(5.5)	90.9(3.4)	95.3(2.5)	96.7(1.5)	94.3(3.0)	89.9(3.1)
METER STICK USAGE							
HAVE USED	95.2(1.2)	96.5(0.8)	97.8(0.6)	97.8(0.6)	97.9(0.6)	98.0(0.5)	97.7(0.7)
HAVE NOT USED	92.8(1.1)	93.4(1.2)	96.3(1.2)	95.6(0.9)	97.3(0.7)	95.4(1.6)	95.9(1.3)
NOT CERTAIN	91.1(2.7)	90.7(5.9)	93.9(3.6)	92.7(3.0)	95.8(2.1)	97.0(1.6)	93.4(2.4)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 150

	1977	1982	1986	1990	1992	1994	1996
SCALE USAGE							
HAVE USED	94.4(1.0)@	96.2(0.6)	97.6(0.5)	97.4(0.6)	98.0(0.4)	97.9(0.4)	97.6(0.6)
HAVE NOT USED	87.7(3.6)	91.3(2.8)	94.2(2.9)	93.8(2.5)	94.5(2.3)	92.6(2.5)	93.9(2.1)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
MAGNIFYING GLASS USAGE							
HAVE USED	95.0(0.8)@	96.2(0.6)	97.8(0.6)	97.7(0.5)	98.2(0.4)	97.8(0.4)	97.8(0.5)
HAVE NOT USED	85.6(4.4)	92.1(1.9)	92.9(2.6)	93.8(2.3)	91.7(3.5)	91.6(2.7)	87.5(4.2)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
TELESCOPE USAGE							
HAVE USED	94.8(1.0)	94.7(1.2)	98.0(0.6)	97.8(0.5)	97.9(0.5)	97.4(0.6)	97.2(0.9)
HAVE NOT USED	93.6(1.3)	96.3(0.7)	96.1(1.2)	96.4(0.9)	97.3(0.8)	97.3(1.0)	96.6(1.0)
NOT CERTAIN	84.8(6.2)	86.3(5.2)	****(****)	****(****)	91.8(5.6)	****(****)	****(****)
THERMOMETER USAGE							
HAVE USED	95.2(0.9)	96.5(0.7)	97.5(0.6)	97.8(0.5)	98.0(0.4)	97.9(0.5)	97.4(0.5)
HAVE NOT USED	87.0(2.5)	91.5(1.9)	92.7(2.4)	89.8(2.8)	93.3(1.8)	94.0(2.2)	90.1(3.8)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
MICROSCOPE USAGE							
HAVE USED	94.7(1.0)@	95.1(0.9)	97.8(0.6)	98.1(0.4)	98.2(0.5)	97.8(0.7)	97.8(0.6)
HAVE NOT USED	93.4(1.7)	95.5(0.8)	96.2(1.2)	96.0(0.9)	96.7(0.9)	96.9(0.8)	95.9(1.0)
NOT CERTAIN	86.2(4.9)	95.3(****)	95.6(2.6)	91.8(2.5)	95.1(****)	93.9(3.1)	91.2(4.1)
DIRECTIONAL COMPASS USAGE							
HAVE USED	95.2(1.0)	96.2(0.9)	98.2(0.4)	97.8(0.5)	98.5(0.5)	98.3(0.4)	97.8(0.6)
HAVE NOT USED	92.5(1.6)	94.8(0.9)	95.7(1.5)	95.8(1.2)	95.4(1.2)	95.0(1.3)	95.0(1.7)
NOT CERTAIN	84.0(3.5)	89.2(5.5)	89.1(4.7)	89.3(4.4)	94.6(2.9)	91.2(****)	87.9(4.2)
STOPWATCH USAGE							
HAVE USED	95.0(1.0)	96.8(0.7)	97.8(0.6)	97.4(0.6)	98.2(0.5)	97.8(0.6)	97.8(0.5)
HAVE NOT USED	93.2(1.6)	94.5(1.2)	96.2(1.0)	96.7(1.2)	95.0(1.2)	96.1(1.3)	94.3(1.7)
NOT CERTAIN	88.5(3.6)	89.0(5.0)	90.2(4.9)	92.3(4.1)	97.8(****)	90.9(3.8)	86.5(6.1)
YARDSTICK USAGE							
HAVE USED	95.1(0.9)	96.4(0.6)	97.3(0.6)	97.5(0.7)	97.9(0.5)	97.6(0.4)	97.5(0.6)
HAVE NOT USED	86.1(3.9)	90.7(3.2)	95.9(1.4)	95.5(1.5)	96.3(1.1)	96.6(1.8)	96.0(1.2)
NOT CERTAIN	****(****)	****(****)	93.9(4.2)	94.4(2.8)	95.1(2.9)	92.1(3.3)	88.9(5.2)
CALCULATOR USAGE							
HAVE USED	95.1(0.9)@	96.2(0.7)	97.3(0.6)	97.3(0.5)	97.7(0.4)	97.5(0.5)	97.4(0.6)
HAVE NOT USED	85.0(4.0)	86.8(6.4)	91.8(****)	****(****)	****(****)	****(****)	****(****)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)

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L/l indicates a significant POSITIVE/negative linear trend; Q/q indicates a POSITIVE/negative quadratic trend; NA means linear and quadratic trends were not tested due to lack of at least 5 trend points with sufficient sample size to estimate the statistics and their standard errors. (****) Standard error estimates cannot be accurately determined.

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 150

	1977	1982	1986	1990	1992	1994	1996
BALANCE USAGE							
HAVE USED	92.7(1.5)@	94.5(0.9)	97.8(0.9)	97.5(0.7)	97.5(0.7)	97.1(0.8)	97.1(0.8)
HAVE NOT USED	93.9(1.4)	95.8(1.1)	96.5(0.9)	96.6(0.8)	97.3(0.5)	97.1(0.7)	97.0(1.2)
NOT CERTAIN	95.1(1.6)	94.9(1.6)	96.8(1.3)	96.6(1.1)	98.2(1.0)	97.5(1.1)	96.6(1.1)
DIFFERENCES							
WHITE - BLACK	25.4(1.8)@	16.1(3.0)	9.6(1.5)	11.2(1.4)	8.5(1.8)	8.1(1.6)	7.6(1.6)
WHITE - HISPANIC	13.1(1.9)@	13.2(3.2)	8.6(2.4)	5.6(1.5)	6.8(1.7)	8.0(2.3)	6.0(2.0)
MALE - FEMALE	1.6(0.9)	-0.5(****)	1.1(0.8)	-0.3(****)	0.6(****)	-0.2(****)	0.3(****)

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(****) Standard error estimates cannot be accurately determined.

****(****) Sample size is insufficient to permit a reliable estimate.

WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 200

	1977	1982	1986	1990	1992	1994	1996
-- Total --	68.0(1.1)@	70.7(1.9)	72.0(1.1)	76.4(0.9)	78.0(1.2)	77.4(1.0)	76.1(1.2)
Gender							
Male	69.5(1.2)@	69.7(2.0)	74.1(1.4)	76.3(1.2)	80.4(1.4)	77.6(0.9)	76.8(1.8)
Female	66.5(1.1)@	71.8(2.2)	70.0(1.3)	76.4(1.1)	75.7(1.2)	77.2(1.4)	75.5(1.0)
Race/Ethnicity							
White	76.8(0.7)@	78.4(2.0)	78.9(1.0)	84.4(0.7)	85.5(0.9)	85.6(1.0)	83.8(1.2)
Black	27.2(1.5)@	38.9(2.7)	46.2(2.3)	46.4(3.1)	51.3(3.5)	51.6(2.3)	52.2(3.4)
Hispanic	42.0(3.1)@	40.2(6.1)	50.1(3.7)	56.3(3.7)	55.5(4.3)	49.9(3.1)	57.8(3.1)
Other	62.0(6.9)	****(****)	67.4(4.1)	76.3(7.0)	73.2(3.7)	65.3(5.6)	70.1(4.9)
Grade							
Below Modal Grade	48.8(1.8)@	50.1(3.3)	55.1(1.7)	61.1(2.1)	64.5(1.6)	64.4(1.4)	63.7(2.3)
At Modal Grade	74.2(1.1)@	79.6(1.9)	80.7(0.9)	84.5(1.0)	86.1(1.3)	83.8(1.3)	82.3(1.0)
Above Modal Grade	83.0(4.1)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
Region							
Northeast	72.6(1.6)@	71.5(3.5)	75.6(2.5)	78.2(2.3)	80.6(2.2)	80.0(2.7)	79.1(1.8)
Southeast	55.0(2.4)@	63.0(3.6)	67.3(3.0)	68.4(2.4)	71.4(2.4)	74.5(2.7)	71.6(3.1)
Central	72.5(2.1)	75.4(3.7)	75.2(2.1)	81.9(1.3)	83.7(1.4)	81.9(2.2)	79.1(2.2)
West	68.5(2.3)	71.4(3.8)	69.9(3.0)	76.8(2.1)	75.9(2.7)	73.6(2.1)	74.9(1.6)
Type Of Location							
Central City	****(****)	****(****)	****(****)	****(****)	****(****)	70.0(2.3)	71.8(1.8)
Urban Fringe/Large Tow	****(****)	****(****)	****(****)	****(****)	****(****)	81.8(1.4)	80.8(1.7)
Rural/Small Town	****(****)	****(****)	****(****)	****(****)	****(****)	79.1(2.2)	77.3(2.9)
Parents' Education Level							
Less than H.S.	49.8(2.4)	54.9(8.7)	55.1(3.6)	60.5(4.2)	68.5(3.2)	61.8(4.0)	59.8(3.4)
Graduated H.S.	71.2(1.4)	68.2(4.3)	69.1(1.9)	75.2(2.1)	71.2(2.0)	73.7(1.9)	71.6(2.6)
Some Educ After H.S.	81.9(1.5)	80.7(2.4)	80.2(1.9)	81.3(2.3)	82.1(1.9)	82.8(2.5)	84.9(1.9)
Graduated College	77.7(1.2)@	78.8(2.0)	80.4(1.2)	81.9(1.2)	84.3(1.3)	83.1(1.3)	83.3(1.6)
Unknown	60.8(1.5)@	60.9(3.6)	65.0(2.0)	71.3(1.4)	73.2(1.8)	71.6(2.0)	68.8(1.2)
Type Of School							
Public	66.4(1.3)@	69.5(2.1)	70.5(1.3)	75.5(1.0)	76.7(1.3)	76.1(1.2)	75.3(1.3)
Non-Public	80.3(1.7)	82.6(3.5)	79.7(2.3)	83.6(2.4)	86.2(2.0)	87.1(2.4)	81.6(3.2)
Quartiles							
Upper	99.0(0.3)	100.0(****)	99.7(0.2)	99.9(****)	99.9(****)	99.9(****)	99.9(****)
Middle two	78.4(0.6)@	85.6(1.9)	84.9(1.1)	90.0(0.8)	91.3(1.0)	91.4(1.0)	89.8(1.3)
Lower	16.2(1.1)@	11.6(2.0)	18.6(1.6)	25.6(2.0)	29.2(2.3)	26.8(2.0)	24.9(2.1)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 200

	1977	1982	1986	1990	1992	1994	1996
TELEVISION WATCHED/DAY							
0 - 2 HOURS	*****(****)	*****(****)	72.6(1.5)@	78.6(1.4)	80.0(1.3)	78.6(1.2)	78.8(1.3)
3 - 5 HOURS	*****(****)	*****(****)	77.4(1.4)	80.5(1.5)	81.6(1.1)	81.8(1.2)	79.4(1.4)
6 HOURS OR MORE	*****(****)	*****(****)	64.4(1.7)	65.8(1.7)	66.6(2.6)	65.9(2.6)	62.9(2.1)
RULES CONCERNING TELEVISION VIEWING							
HAVE RULES	*****(****)	*****(****)	70.4(1.4)@	75.1(1.7)	77.1(1.4)	77.0(1.2)	78.1(1.8)
DO NOT HAVE RULES	*****(****)	*****(****)	73.2(1.4)	77.2(0.9)	78.7(1.3)	77.8(1.3)	75.0(1.1)
MOTHER'S EDUCATION							
LESS THAN H.S.	*****(****)	50.5(8.2)	59.8(3.5)	62.1(3.7)	67.0(4.0)	62.1(3.8)	62.5(2.9)
GRADUATED H.S.	*****(****)	73.3(4.7)	72.5(2.1)	77.7(1.9)	74.8(1.6)	76.3(1.5)	74.7(2.3)
SOME EDUC AFTER H.S	*****(****)	85.0(4.9)	84.0(2.1)	85.6(2.1)	84.7(1.7)	84.9(2.2)	86.4(2.4)
GRADUATED COLLEGE	*****(****)	81.4(2.1)	80.7(1.2)	82.1(1.3)	84.5(1.4)	83.2(1.3)	84.4(1.4)
UNKNOWN	*****(****)	62.5(2.7)	66.0(1.7)	71.9(1.2)	74.3(1.4)	72.9(1.9)	69.5(1.2)
FATHER'S EDUCATION							
LESS THAN H.S.	*****(****)	61.1(6.7)	62.2(5.8)	67.4(3.5)	69.7(3.7)	66.4(3.3)	62.6(3.3)
GRADUATED H.S.	*****(****)	74.3(4.1)	70.7(2.3)	76.3(1.9)	74.9(2.0)	75.6(2.0)	73.6(2.3)
SOME EDUC AFTER H.S	*****(****)	79.3(2.8)	80.1(2.6)	81.4(2.6)	82.4(2.4)	82.1(2.3)	84.8(1.8)
GRADUATED COLLEGE	*****(****)	77.6(2.4)	82.4(1.3)	83.1(1.4)	84.9(1.3)	84.7(1.4)	84.2(2.0)
UNKNOWN	*****(****)	62.7(3.3)	65.8(1.5)	72.1(1.3)	73.9(1.6)	72.6(1.4)	71.4(1.3)
TIME SPENT ON HOMEWORK							
NONE	*****(****)	*****(****)	70.6(4.2)	74.5(4.0)	76.3(3.0)	75.1(4.8)	62.7(8.0)
15 MINUTES OR LESS	*****(****)	*****(****)	65.0(2.2)	69.9(1.4)	73.1(1.6)	70.7(1.7)	70.5(2.3)
1/2 HOUR	*****(****)	*****(****)	77.4(1.4)	81.2(1.4)	82.1(1.5)	82.6(1.3)	81.7(1.2)
1 HOUR	*****(****)	*****(****)	73.5(1.4)	79.1(1.2)	79.8(1.6)	79.5(1.7)	78.6(2.1)
MORE THAN 1 HOUR	*****(****)	*****(****)	70.3(2.2)	73.8(2.1)	76.2(2.1)	76.8(3.1)	73.9(2.9)
COMPUTER USAGE							
HAVE USED	*****(****)	*****(****)	76.2(1.0)@	79.9(0.9)	81.0(1.3)	80.1(0.9)	79.8(1.1)
HAVE NOT USED	*****(****)	*****(****)	59.6(1.8)	63.2(1.8)	65.0(1.6)	65.4(2.1)	60.0(2.2)
FAMILY OWNS A COMPUTER							
YES	*****(****)	*****(****)	79.2(1.5)	81.7(1.5)	83.3(1.1)	84.3(0.9)	83.2(1.3)
NO	*****(****)	*****(****)	69.3(1.3)	74.1(1.0)	75.4(1.5)	72.7(1.3)	69.8(1.5)
MOTHER/STEPMOTHER EMPLOYMENT							
HAS A JOB	*****(****)	*****(****)	73.7(1.1)	77.6(0.9)	79.0(1.4)	78.7(1.0)	77.2(1.1)
DOES NOT HAVE A JOB	*****(****)	*****(****)	70.0(2.0)	74.7(1.9)	76.2(1.2)	75.2(1.8)	75.0(2.1)
MTHR LIVES ELSEWHERE	*****(****)	*****(****)	57.3(7.6)	64.7(5.8)	67.2(5.5)	64.0(6.1)	60.8(6.6)

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 (****) Standard error estimates cannot be accurately determined.

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 200

	1977	1982	1986	1990	1992	1994	1996
FATHER/STEPFATHER EMPLOYMENT							
HAS A JOB	*****(****)	*****(****)	74.6(1.1)	78.2(1.0)	79.8(1.2)	79.1(0.9)	78.0(1.2)
DOES NOT HAVE A JOB	*****(****)	*****(****)	54.6(4.1)	66.3(3.4)	65.2(2.6)	66.7(4.0)	60.5(3.5)
FTHR LIVES ELSEWHERE	*****(****)	*****(****)	64.3(3.6)	69.1(2.4)	70.7(2.5)	71.0(2.9)	72.7(2.6)
SCIENCE CLASS							
EVERY DAY	*****(****)	*****(****)	74.1(1.6)	77.2(1.7)	80.0(1.7)	79.0(1.6)	79.5(1.4)
SEVERAL/WEEK	*****(****)	*****(****)	78.3(1.7)	81.7(1.7)	83.9(0.9)	83.1(1.6)	81.8(1.8)
ABOUT ONCE/WEEK	*****(****)	*****(****)	71.4(2.2)	76.7(1.8)	74.5(1.9)	75.0(1.6)	72.5(2.4)
< ONCE/WEEK	*****(****)	*****(****)	67.1(3.6)	67.9(3.6)	71.4(3.9)	70.7(3.6)	70.2(4.0)
HARDLY EVER OR NONE	*****(****)	*****(****)	59.7(2.6)	62.5(3.2)	65.4(3.0)	68.7(2.5)	65.3(2.4)
SHADOW EXPERIMENTS							
HAVE DONE	69.9(2.5)	72.0(2.6)	72.3(2.5)	78.8(2.1)	79.5(1.7)	80.7(2.1)	77.8(2.3)
HAVE NOT DONE	69.5(1.9)@	69.7(2.1)	73.8(1.5)	79.5(1.8)	78.6(2.3)	80.7(1.9)	78.9(2.2)
NOT CERTAIN	29.2(9.2)	70.8(6.6)	45.1(6.8)	57.8(7.2)	53.9(6.0)	59.1(5.5)	49.6(7.2)
LIVING PLANTS EXPERIMENTS							
HAVE DONE	69.6(1.9)@	73.3(2.4)	74.0(1.7)	81.9(1.4)	80.2(1.8)	82.8(1.4)	79.9(2.0)
HAVE NOT DONE	67.2(3.0)	67.0(2.6)	70.1(2.7)	72.2(2.4)	75.2(2.6)	74.0(3.5)	73.4(3.1)
NOT CERTAIN	46.7(7.6)	61.6(9.8)	49.1(6.9)	63.8(6.5)	61.5(5.8)	67.6(7.2)	45.0(6.1)
LIVING ANIMAL EXPERIMENTS							
HAVE DONE	64.7(2.4)@	69.2(2.3)	68.8(2.3)	75.6(1.9)	73.6(2.4)	76.7(2.2)	73.5(2.6)
HAVE NOT DONE	75.5(2.0)	73.6(2.0)	76.4(2.1)	81.6(1.7)	81.9(1.9)	82.7(2.0)	80.3(2.5)
NOT CERTAIN	37.7(8.4)	66.4(6.8)	42.7(8.4)	66.7(8.7)	62.3(7.0)	63.3(12.1)	59.9(8.0)
BATTERIES & BULBS EXPERIMENTS							
HAVE DONE	72.4(2.3)@	73.2(2.2)	74.8(2.2)	81.7(2.1)	79.6(2.0)	81.9(2.0)	81.1(2.4)
HAVE NOT DONE	67.4(2.3)	70.0(2.2)	72.3(2.3)	76.8(1.7)	79.4(2.3)	79.2(2.4)	73.8(2.7)
NOT CERTAIN	35.4(4.5)@	55.2(7.9)	42.2(6.4)	66.1(6.0)	55.7(4.9)	61.5(6.6)	61.1(7.9)
DISSOLVING IN WATER EXPERIMENTS							
HAVE DONE	71.8(1.7)@	74.1(2.3)	75.1(2.0)	80.4(1.3)	80.5(1.4)	80.4(1.6)	80.3(2.3)
HAVE NOT DONE	64.9(2.8)	66.5(3.1)	70.2(2.4)	77.7(2.3)	76.2(2.9)	79.1(3.5)	74.8(3.1)
NOT CERTAIN	38.0(7.5)	58.0(6.1)	50.4(5.4)	63.6(6.2)	64.7(5.0)	70.9(5.2)@	51.8(5.6)
METER STICK USAGE							
HAVE USED	68.2(2.3)@	74.4(1.9)	75.7(1.8)	79.8(1.7)	81.3(1.5)	79.8(1.4)	81.2(2.4)
HAVE NOT USED	62.4(2.5)@	63.4(2.8)	72.0(2.4)	74.7(2.4)	75.6(2.3)	71.2(3.5)	72.5(2.6)
NOT CERTAIN	56.2(5.3)	67.3(7.9)	60.3(4.7)	64.7(5.1)	75.8(3.7)	75.1(4.2)	69.6(4.5)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 200

	1977	1982	1986	1990	1992	1994	1996
SCALE USAGE							
HAVE USED	66.3(2.2)@	72.7(1.8)	75.6(1.2)	79.2(1.5)	81.0(1.4)	79.0(1.5)	80.1(1.9)
HAVE NOT USED	50.3(5.6)	60.6(3.7)	61.3(5.3)	64.9(5.3)	66.1(4.6)	62.5(4.4)	65.1(4.7)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
MAGNIFYING GLASS USAGE							
HAVE USED	67.2(1.9)@	73.8(1.7)	76.4(1.3)	80.1(1.5)	81.6(1.2)	79.1(1.5)	80.8(1.7)
HAVE NOT USED	48.0(3.8)	58.1(4.8)	53.1(3.7)	60.6(5.0)	59.5(5.3)	57.8(4.4)	46.3(6.0)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
TELESCOPE USAGE							
HAVE USED	67.3(2.5)@	71.6(2.3)	77.4(1.6)	79.5(1.5)	81.9(1.3)	79.8(1.8)	80.6(1.9)
HAVE NOT USED	63.6(2.3)@	71.5(2.6)	69.0(1.9)	75.0(2.6)	76.0(2.4)	72.6(2.6)	74.3(3.4)
NOT CERTAIN	43.7(7.0)	50.6(6.8)	****(****)	****(****)	63.0(10.5)	****(****)	****(****)
THERMOMETER USAGE							
HAVE USED	67.9(1.8)@	73.8(1.9)	75.2(1.5)	79.6(1.5)	80.8(1.2)	79.3(1.6)	79.8(1.9)
HAVE NOT USED	47.7(3.6)	59.5(3.6)	58.1(5.8)	58.8(6.7)	66.6(4.4)	62.1(5.9)	56.8(5.6)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
MICROSCOPE USAGE							
HAVE USED	68.5(2.2)@	73.7(2.0)	78.1(1.8)	81.7(1.4)	83.2(1.4)	80.7(1.5)	82.2(2.0)
HAVE NOT USED	61.2(2.4)@	68.8(2.5)	67.9(2.3)	71.4(2.6)	74.0(2.7)	71.9(2.5)	72.6(2.7)
NOT CERTAIN	47.9(7.7)	62.3(6.2)	63.8(6.7)	67.6(6.0)	69.2(6.3)	71.9(4.6)	67.0(5.9)
DIRECTIONAL COMPASS USAGE							
HAVE USED	67.9(2.1)@	73.8(2.6)	78.1(1.1)	80.5(1.7)	83.1(1.2)	80.6(1.4)	80.6(2.1)
HAVE NOT USED	61.9(3.0)@	68.4(2.5)	67.4(2.7)	72.6(2.6)	72.0(2.6)	67.9(2.2)	72.4(2.7)
NOT CERTAIN	41.1(4.4)	55.1(6.2)	45.3(6.2)	55.4(7.8)	60.6(4.7)	65.9(9.2)	54.4(6.4)
STOPWATCH USAGE							
HAVE USED	68.1(2.2)@	77.4(2.4)	76.1(1.6)	79.9(1.6)	82.5(1.2)	80.0(1.2)	81.2(1.8)
HAVE NOT USED	62.5(2.4)	65.6(2.4)	70.3(2.5)	72.2(2.3)	69.4(2.7)	70.0(3.1)	67.9(4.1)
NOT CERTAIN	52.9(4.9)	55.3(7.1)	55.9(6.4)	62.8(7.0)	70.9(7.6)	60.4(6.2)	54.9(7.0)
YARDSTICK USAGE							
HAVE USED	67.8(1.9)@	74.1(1.8)	75.8(1.6)	79.5(1.4)	80.8(1.6)	79.3(1.3)	80.2(1.9)
HAVE NOT USED	46.3(3.7)@	56.3(4.5)	64.7(4.0)	71.3(3.3)	74.0(3.8)	70.7(2.7)	71.8(3.7)
NOT CERTAIN	****(****)	****(****)	61.4(8.2)	70.8(7.9)	73.5(7.1)	66.7(7.1)	61.9(8.8)
CALCULATOR USAGE							
HAVE USED	67.7(2.0)@	73.3(1.8)	74.3(1.4)	78.4(1.5)	80.1(1.3)	78.1(1.3)	79.1(1.8)
HAVE NOT USED	44.7(4.1)	46.6(6.8)	57.7(6.6)	****(****)	****(****)	****(****)	****(****)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 200

	1977	1982	1986	1990	1992	1994	1996
BALANCE USAGE							
HAVE USED	62.0(2.5)@	69.7(2.3)	73.8(2.0)	79.7(1.6)	79.3(2.1)	77.4(2.0)	78.5(3.0)
HAVE NOT USED	64.6(2.6)@	69.9(2.3)	72.0(2.8)	75.2(2.3)	78.5(1.7)	75.0(2.3)	77.0(2.1)
NOT CERTAIN	68.2(3.2)@	74.8(3.7)	75.7(3.4)	78.3(3.2)	82.2(2.2)	81.3(2.9)	78.8(2.7)
DIFFERENCES							
WHITE - BLACK	49.7(1.7)@	39.5(3.3)	32.8(2.5)	38.0(3.2)	34.2(3.6)	33.9(2.5)	31.5(3.6)
WHITE - HISPANIC	34.8(3.1)	38.1(6.4)	28.9(3.8)	28.0(3.8)	30.0(4.4)	35.7(3.2)	26.0(3.3)
MALE - FEMALE	3.0(1.6)	-2.2(****)	4.1(1.9)	-0.1(****)	4.7(1.9)	0.4(****)	1.3(****)

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(****) Standard error estimates cannot be accurately determined.

****(****) Sample size is insufficient to permit a reliable estimate.

WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 250

	1977	1982	1986	1990	1992	1994	1996
-- Total --	25.7(0.7)@	24.3(1.8)	27.5(1.4)	31.1(0.8)	32.8(1.0)	33.7(1.2)	32.2(1.3)
Gender							
Male	27.4(0.9)@	25.6(2.6)	29.9(2.0)	33.1(1.1)	37.2(1.7)	35.3(1.4)	33.9(1.9)
Female	24.0(0.9)@	23.0(2.0)	25.1(1.4)	29.1(1.0)	28.6(1.1)	32.2(1.5)	30.7(1.9)
Race/Ethnicity							
White	30.8(0.7)@	29.4(2.1)	32.7(1.5)	37.5(1.1)	39.4(1.1)	40.8(1.5)	39.6(1.5)
Black	3.5(0.6)@	3.9(1.3)	8.3(1.5)	8.5(1.1)	9.2(1.4)	11.1(1.4)	10.6(2.0)
Hispanic	8.8(1.7)	4.2(2.7)	10.7(2.4)	11.6(2.1)	11.7(1.8)	10.8(2.5)	13.1(3.1)
Other	20.5(4.9)	****(****)	27.1(5.8)	30.1(6.0)	30.4(4.7)	22.1(4.3)	25.8(4.9)
Grade							
Below Modal Grade	11.0(0.9)@	8.4(1.7)	13.0(1.3)	16.5(1.2)	20.0(1.6)	20.3(1.6)	18.1(1.0)
At Modal Grade	30.3(0.9)@	31.0(2.5)	35.0(1.7)	39.0(1.1)	40.4(1.0)	40.5(1.6)	39.4(1.9)
Above Modal Grade	45.7(7.0)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
Region							
Northeast	28.9(1.1)	25.8(3.1)	30.5(2.9)	33.4(2.9)	35.9(2.7)	36.8(2.3)	35.0(2.6)
Southeast	17.2(1.5)@	20.2(3.6)	23.3(3.0)	24.9(1.4)	26.5(1.8)	30.4(2.3)	27.9(3.0)
Central	29.2(1.6)	27.5(3.6)	30.1(2.3)	34.4(1.8)	38.7(2.3)	38.1(2.6)	35.9(2.7)
West	25.3(1.2)	23.1(4.6)	26.2(2.6)	31.7(1.7)	29.8(2.2)	30.1(2.7)	30.7(2.6)
Type Of Location							
Central City	****(****)	****(****)	****(****)	****(****)	****(****)	27.6(2.7)	28.4(2.0)
Urban Fringe/Large Tow	****(****)	****(****)	****(****)	****(****)	****(****)	37.4(1.7)	36.7(2.7)
Rural/Small Town	****(****)	****(****)	****(****)	****(****)	****(****)	35.0(2.5)	33.0(3.6)
Parents' Education Level							
Less than H.S.	12.7(1.3)	8.6(4.0)	12.7(2.7)	16.3(3.5)	19.6(2.8)	16.2(3.1)	16.1(3.7)
Graduated H.S.	27.0(1.2)	20.3(3.1)	23.1(1.8)	27.3(1.8)	26.2(1.7)	27.4(2.3)	24.7(2.1)
Some Educ After H.S.	39.4(1.5)	31.9(5.1)	38.5(3.7)	40.7(2.5)	39.2(3.1)	42.1(4.3)	44.1(4.1)
Graduated College	35.1(1.2)@	32.2(2.7)	36.8(1.8)	38.3(1.2)	40.2(1.4)	40.6(1.6)	41.7(2.0)
Unknown	18.9(0.8)	16.1(2.1)	19.5(1.7)	23.9(1.3)	26.5(1.7)	26.8(1.9)	22.7(2.0)
Type Of School							
Public	24.5(0.9)@	23.9(2.1)	26.3(1.5)	30.3(0.8)	31.5(1.0)	32.5(1.4)	30.9(1.4)
Non-Public	35.6(1.9)	28.2(5.6)	33.8(2.8)	37.2(3.0)	40.6(3.4)	42.7(2.8)	41.1(3.7)
Quartiles							
Upper	70.1(1.1)@	79.1(3.0)	76.1(2.0)	80.2(1.5)	82.7(1.6)	83.6(1.3)	83.6(1.9)
Middle two	16.2(0.6)@	9.1(1.9)	16.9(1.5)	22.1(1.0)	23.9(1.3)	25.3(1.7)	22.5(1.8)
Lower	0.2(0.1)	0.0(****)	0.2(****)	0.2(0.1)	0.4(0.2)	0.4(0.2)	0.3(****)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 250

	1977	1982	1986	1990	1992	1994	1996
TELEVISION WATCHED/DAY							
0 - 2 HOURS	*****(****)	*****(****)	30.0(2.1)	33.3(1.6)	35.6(1.3)	36.0(1.7)	36.6(1.8)
3 - 5 HOURS	*****(****)	*****(****)	31.3(2.2)	34.4(1.3)	35.2(1.3)	37.5(2.0)	32.9(2.1)
6 HOURS OR MORE	*****(****)	*****(****)	20.3(1.2)	22.0(1.6)	22.2(1.5)	21.3(2.0)	20.4(2.3)
RULES CONCERNING TELEVISION VIEWING							
HAVE RULES	*****(****)	*****(****)	27.0(1.6)@	31.2(1.3)	34.3(1.5)	34.8(1.6)	35.6(2.0)
DO NOT HAVE RULES	*****(****)	*****(****)	28.0(1.7)	31.1(1.0)	31.9(0.8)	33.0(1.4)	30.2(1.5)
MOTHER'S EDUCATION							
LESS THAN H.S.	*****(****)	7.8(2.5)	13.6(2.3)	17.5(3.4)	19.4(3.0)	16.7(3.4)	18.3(4.1)
GRADUATED H.S.	*****(****)	24.6(4.0)	27.8(1.4)	31.2(1.9)	29.9(1.8)	30.3(2.6)	29.0(1.9)
SOME EDUC AFTER H.S	*****(****)	40.2(6.3)	41.0(3.1)	46.8(2.8)	43.9(3.5)	43.6(3.5)	47.8(4.0)
GRADUATED COLLEGE	*****(****)	33.7(2.9)	37.0(1.8)	38.4(1.4)	40.7(1.5)	40.7(1.7)	42.9(2.0)
UNKNOWN	*****(****)	16.8(1.8)@	21.0(1.6)	24.6(1.2)	27.3(1.3)	28.7(1.7)	23.6(1.9)
FATHER'S EDUCATION							
LESS THAN H.S.	*****(****)	12.7(3.6)	17.5(3.0)	23.1(3.7)	21.4(2.6)	21.1(3.3)	18.7(4.3)
GRADUATED H.S.	*****(****)	26.2(3.6)	24.4(1.9)	29.0(1.8)	29.8(2.0)	29.8(2.4)	28.0(2.6)
SOME EDUC AFTER H.S	*****(****)	36.0(5.5)	39.5(4.4)	40.1(2.9)	39.4(3.2)	40.4(4.1)	42.1(3.3)
GRADUATED COLLEGE	*****(****)	30.5(3.1)@	39.4(2.0)	39.8(1.3)	41.4(1.4)	42.7(1.8)	42.8(2.3)
UNKNOWN	*****(****)	17.4(2.0)@	20.5(1.7)	25.3(1.1)	27.4(1.4)	28.0(1.3)	26.4(1.8)
TIME SPENT ON HOMEWORK							
NONE	*****(****)	*****(****)	26.5(4.7)	30.3(3.8)	32.3(3.7)	30.8(4.3)	22.0(6.7)
15 MINUTES OR LESS	*****(****)	*****(****)	23.0(1.5)	24.9(1.5)	27.2(1.6)	26.9(1.9)	26.2(1.5)
1/2 HOUR	*****(****)	*****(****)	31.2(1.8)	35.9(2.0)	37.4(1.4)	39.1(1.5)	37.3(2.2)
1 HOUR	*****(****)	*****(****)	28.7(1.9)	33.6(1.8)	34.6(1.4)	36.6(2.4)	35.2(3.2)
MORE THAN 1 HOUR	*****(****)	*****(****)	25.8(2.3)	28.2(2.2)	30.6(1.8)	31.8(2.0)	31.2(3.1)
COMPUTER USAGE							
HAVE USED	*****(****)	*****(****)	31.0(1.4)	34.3(0.9)	35.8(1.1)	36.5(1.3)	35.5(1.6)
HAVE NOT USED	*****(****)	*****(****)	17.2(1.9)	18.9(1.2)	19.7(1.3)	21.1(1.9)	18.4(1.6)
FAMILY OWNS A COMPUTER							
YES	*****(****)	*****(****)	34.7(1.6)	38.2(1.3)	40.5(1.6)	41.9(1.6)	40.1(1.9)
NO	*****(****)	*****(****)	24.8(1.5)	27.9(0.8)	29.0(0.9)	28.2(1.4)	25.2(1.3)
MOTHER/STEPMOTHER EMPLOYMENT							
HAS A JOB	*****(****)	*****(****)	28.5(1.7)	31.6(0.8)	33.3(1.0)	34.8(1.4)	32.4(1.5)
DOES NOT HAVE A JOB	*****(****)	*****(****)	26.3(1.8)@	31.4(1.6)	32.0(1.6)	32.4(1.7)	33.5(1.7)
MTHR LIVES ELSEWHERE	*****(****)	*****(****)	22.4(4.7)	21.4(5.3)	22.3(4.1)	18.1(3.7)	19.9(4.8)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 250

	1977	1982	1986	1990	1992	1994	1996
FATHER/STEPFATHER EMPLOYMENT							
HAS A JOB	*****(****)	*****(****)	29.3(1.5)@	32.8(0.9)	34.4(1.2)	35.4(1.3)	34.3(1.4)
DOES NOT HAVE A JOB	*****(****)	*****(****)	15.9(2.7)	21.9(3.1)	24.1(2.9)	21.9(3.3)	18.8(3.2)
FTHR LIVES ELSEWHERE	*****(****)	*****(****)	21.6(2.6)	23.9(2.3)	24.3(2.3)	27.5(3.8)	26.9(2.8)
SCIENCE CLASS							
EVERY DAY	*****(****)	*****(****)	29.0(1.9)	32.3(1.7)	34.4(1.8)	34.6(1.9)	36.4(2.4)
SEVERAL/WEEK	*****(****)	*****(****)	34.6(2.1)	36.1(1.5)	38.6(2.0)	41.1(1.7)	38.2(2.0)
ABOUT ONCE/WEEK	*****(****)	*****(****)	25.3(2.2)	28.3(2.0)	28.6(2.5)	30.5(2.3)	27.1(1.8)
< ONCE/WEEK	*****(****)	*****(****)	23.0(3.2)	23.9(3.4)	26.4(4.0)	32.4(3.4)	28.3(4.6)
HARDLY EVER OR NONE	*****(****)	*****(****)	16.7(2.6)	21.1(2.0)	22.2(2.8)	22.2(1.9)	20.9(2.2)
SHADOW EXPERIMENTS							
HAVE DONE	27.9(3.0)	27.4(3.1)	29.7(1.9)	35.4(2.7)	36.7(2.9)	36.7(2.5)	36.0(3.2)
HAVE NOT DONE	23.5(2.2)	21.9(2.1)	27.3(2.3)	29.7(2.6)	31.2(2.5)	35.2(2.1)	30.9(2.7)
NOT CERTAIN	4.2(2.8)	21.6(4.9)	11.3(3.9)	16.6(5.1)	14.3(4.9)	20.5(4.7)	16.4(4.0)
LIVING PLANTS EXPERIMENTS							
HAVE DONE	26.0(2.1)@	26.9(2.3)	29.4(1.4)	35.4(2.5)	35.9(1.8)	38.9(2.2)	35.8(2.8)
HAVE NOT DONE	22.5(3.3)	20.4(2.7)	25.3(2.9)	24.4(2.4)	28.0(2.1)	28.4(3.7)	25.2(2.9)
NOT CERTAIN	11.9(5.4)	15.9(5.3)	14.5(3.8)	21.6(4.9)	22.6(4.9)	22.1(6.8)	12.9(5.0)
LIVING ANIMAL EXPERIMENTS							
HAVE DONE	22.6(2.4)	23.0(2.2)	26.3(1.6)	30.9(3.3)	31.7(1.9)	33.6(2.7)	30.7(3.4)
HAVE NOT DONE	28.8(3.2)	26.7(2.7)	29.5(2.1)	32.6(2.2)	34.5(1.9)	36.7(1.8)	33.1(2.5)
NOT CERTAIN	7.1(3.7)@	20.7(5.2)	13.0(5.7)	25.2(5.5)	19.1(5.7)	27.3(6.9)	26.2(5.7)
BATTERIES & BULBS EXPERIMENTS							
HAVE DONE	28.4(2.3)	26.9(2.3)	30.7(2.1)	34.8(2.3)	36.1(2.0)	38.3(2.6)	34.6(2.8)
HAVE NOT DONE	22.5(2.2)	22.4(2.3)	26.6(2.5)	29.5(2.7)	31.2(1.8)	33.4(2.8)	30.3(2.8)
NOT CERTAIN	5.4(2.3)@	15.1(4.1)	10.3(3.2)	21.9(4.3)	21.0(5.3)	18.1(5.1)	22.7(5.3)
DISSOLVING IN WATER EXPERIMENTS							
HAVE DONE	27.5(2.0)	27.1(2.2)	29.6(1.8)	33.6(2.1)	35.3(1.8)	36.5(2.1)	35.9(3.0)
HAVE NOT DONE	20.8(3.0)	20.7(3.2)	26.0(2.0)	29.3(3.3)	30.6(2.6)	32.9(2.9)	26.9(2.9)
NOT CERTAIN	5.9(3.2)	14.7(4.1)	14.9(3.7)	21.8(5.3)	21.9(3.2)	26.6(6.0)	16.3(5.4)
METER STICK USAGE							
HAVE USED	27.7(2.0)@	27.9(2.4)	29.5(2.1)	35.3(1.5)	35.8(2.1)	37.4(2.2)	36.9(2.2)
HAVE NOT USED	23.0(2.3)	17.5(3.1)	24.7(3.8)	26.8(2.4)	30.9(2.8)	28.6(2.5)	31.1(3.3)
NOT CERTAIN	21.7(3.9)	19.4(4.3)	22.4(4.5)	23.7(4.5)	30.4(3.7)	31.5(4.9)	28.7(5.3)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 250

	1977	1982	1986	1990	1992	1994	1996
SCALE USAGE							
HAVE USED	26.4(1.8)@	26.0(2.0)	29.2(2.1)	33.8(1.3)	35.3(1.9)	36.1(1.7)	36.3(2.1)
HAVE NOT USED	14.0(2.9)	14.6(2.5)	18.7(3.5)	20.9(3.1)	24.0(4.7)	20.4(4.9)	23.7(4.0)
NOT CERTAIN	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)
MAGNIFYING GLASS USAGE							
HAVE USED	26.8(1.7)@	26.8(2.1)	29.5(2.3)	34.4(1.3)	35.7(2.0)	36.2(1.7)	36.7(2.1)
HAVE NOT USED	13.7(3.7)	13.1(2.9)	15.3(3.2)	17.0(3.8)	19.1(3.3)	20.2(3.8)	11.8(4.1)
NOT CERTAIN	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)
TELESCOPE USAGE							
HAVE USED	27.6(2.1)@	29.4(2.3)	31.1(2.9)	35.1(1.7)	37.0(2.2)	37.9(2.2)	38.5(2.8)
HAVE NOT USED	23.6(2.1)	21.1(2.4)	23.9(2.1)	28.0(2.3)	29.7(2.5)	29.0(1.8)	28.9(2.2)
NOT CERTAIN	13.9(5.5)	9.1(4.4)	*****(****)	*****(****)	21.2(6.0)	*****(****)	*****(****)
THERMOMETER USAGE							
HAVE USED	27.4(1.7)@	26.0(1.9)	29.1(2.3)	33.8(1.3)	35.4(1.9)	36.5(1.6)	36.0(2.1)
HAVE NOT USED	13.3(2.9)	19.0(3.2)	18.1(4.0)	18.0(4.6)	21.9(3.4)	20.8(4.9)	18.0(6.6)
NOT CERTAIN	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)
MICROSCOPE USAGE							
HAVE USED	28.3(2.0)@	29.3(2.4)	32.5(2.6)	37.6(1.8)	38.2(2.6)	40.0(2.9)	40.4(2.7)
HAVE NOT USED	21.7(2.1)	20.7(2.1)	21.9(2.6)	24.0(2.1)	27.8(2.3)	27.0(2.0)	26.7(2.1)
NOT CERTAIN	17.0(5.5)	11.6(4.2)	20.7(6.3)	22.4(5.8)	26.5(6.4)	26.4(5.5)	23.3(6.6)
DIRECTIONAL COMPASS USAGE							
HAVE USED	28.1(2.0)@	26.4(2.3)	31.4(2.8)	35.3(1.4)	37.5(2.2)	38.1(1.6)	36.3(2.2)
HAVE NOT USED	22.0(2.5)	22.8(2.3)	22.7(3.0)	26.9(2.4)	26.9(2.2)	24.9(3.8)	31.3(3.2)
NOT CERTAIN	8.1(3.0)	13.6(7.0)	8.7(3.7)	14.8(5.6)	18.6(4.4)	21.0(6.1)	17.0(6.1)
STOPWATCH USAGE							
HAVE USED	29.0(2.5)@	30.5(2.5)	30.5(2.2)	35.7(1.6)	36.7(2.1)	37.5(1.7)	37.9(2.2)
HAVE NOT USED	22.6(1.9)	19.1(1.9)	24.1(2.7)	23.6(2.7)	26.8(2.7)	25.9(2.9)	25.0(2.9)
NOT CERTAIN	14.9(2.8)	12.0(4.1)	15.4(4.8)	20.4(5.5)	21.4(5.6)	26.0(7.1)	13.9(7.3)
YARDSTICK USAGE							
HAVE USED	27.4(1.8)@	26.9(1.8)	29.6(1.9)	35.1(1.4)	35.9(1.9)	37.1(1.8)	36.9(2.4)
HAVE NOT USED	11.0(3.2)@	11.6(3.0)	20.9(4.1)	23.1(3.3)	27.3(3.7)	24.3(3.2)	27.3(4.0)
NOT CERTAIN	*****(****)	*****(****)	18.2(8.1)	21.4(7.8)	26.7(6.7)	29.2(7.1)	22.8(6.6)
CALCULATOR USAGE							
HAVE USED	27.1(1.9)@	25.6(1.8)	28.3(2.0)	32.9(1.3)	34.8(1.8)	35.2(1.7)	35.4(2.1)
HAVE NOT USED	11.6(2.3)	11.3(3.9)	15.5(6.6)	*****(****)	*****(****)	*****(****)	*****(****)
NOT CERTAIN	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)

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L/l indicates a significant POSITIVE/negative linear trend; Q/q indicates a POSITIVE/negative quadratic trend; NA means linear and quadratic trends were not tested due to lack of at least 5 trend points with sufficient sample size to estimate the statistics and their standard errors. (****) Standard error estimates cannot be accurately determined.

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 250

	1977	1982	1986	1990	1992	1994	1996
BALANCE USAGE							
HAVE USED	25.0(2.0)@	24.6(3.0)	27.0(2.4)	35.4(2.1)	34.1(2.4)	35.6(2.3)	34.6(2.5)
HAVE NOT USED	24.3(2.3)	24.0(2.0)	27.1(3.3)	28.9(2.4)	33.0(2.2)	32.0(2.3)	32.6(3.5)
NOT CERTAIN	26.0(3.1)@	24.8(4.1)	29.5(2.8)	33.1(4.6)	37.5(3.7)	37.5(3.4)	37.8(3.1)
DIFFERENCES							
WHITE - BLACK	27.2(0.9)	25.5(2.5)	24.4(2.1)	29.0(1.5)	30.2(1.8)	29.6(2.0)	29.0(2.5)
WHITE - HISPANIC	22.0(1.8)	25.2(3.4)	21.9(2.8)	26.0(2.3)	27.7(2.1)	30.0(2.9)	26.5(3.5)
MALE - FEMALE	3.4(1.3)	2.7(****)	4.8(2.4)	4.0(1.5)	8.6(2.0)	3.1(2.0)	3.2(****)

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(****) Standard error estimates cannot be accurately determined.

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 300

	1977	1982	1986	1990	1992	1994	1996
-- Total --	3.2(0.3)@	2.3(0.7)	3.0(0.5)	3.1(0.3)	3.4(0.3)	3.8(0.4)	4.4(0.4)
Gender							
Male	3.7(0.3)	2.5(1.0)	3.8(0.6)	4.2(0.6)	4.6(0.6)	4.5(0.7)	5.2(0.7)
Female	2.6(0.3)	2.1(0.6)	2.2(0.5)	2.0(0.3)	2.2(0.3)	3.2(0.4)	3.6(0.6)
Race/Ethnicity							
White	3.9(0.3)@	2.9(0.9)	3.8(0.6)	3.9(0.4)	4.3(0.4)	4.9(0.6)	5.9(0.5)
Black	0.2(****)	0.1(****)	0.3(****)	0.1(****)	0.3(****)	0.2(****)	0.3(****)
Hispanic	0.3(****)	0.0(****)	0.2(****)	0.4(****)	0.4(****)	0.7(0.5)	0.4(****)
Other	1.9(1.0)	****(****)	2.1(1.1)	3.2(1.5)	3.2(1.5)	1.4(****)	1.6(0.8)
Grade							
Below Modal Grade	0.7(0.1)	0.1(****)	0.6(0.2)	0.9(0.4)	1.2(0.3)	1.4(0.5)	1.4(0.4)
At Modal Grade	3.9(0.4)@	3.0(0.9)	4.2(0.7)	4.3(0.5)	4.7(0.4)	5.0(0.6)	5.9(0.7)
Above Modal Grade	9.7(5.1)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
Region							
Northeast	3.6(0.4)	2.6(1.2)	3.7(1.9)	3.4(0.7)	4.1(0.8)	4.5(1.0)	5.6(1.2)
Southeast	1.6(0.3)	1.4(0.5)	2.3(0.4)	2.2(0.7)	2.5(0.7)	3.1(1.2)	3.2(0.8)
Central	3.8(0.5)	2.9(1.5)	3.2(0.8)	3.8(0.8)	4.4(0.6)	4.3(0.9)	5.0(0.8)
West	3.2(0.5)	2.1(****)	2.7(0.9)	3.0(0.5)	2.6(0.5)	3.4(0.5)	3.9(0.8)
Type Of Location							
Central City	****(****)	****(****)	****(****)	****(****)	****(****)	2.6(0.4)	3.4(0.7)
Urban Fringe/Large Tow	****(****)	****(****)	****(****)	****(****)	****(****)	4.7(0.7)	5.5(0.9)
Rural/Small Town	****(****)	****(****)	****(****)	****(****)	****(****)	3.7(0.9)	4.5(1.0)
Parents' Education Level							
Less than H.S.	0.9(0.4)	0.2(****)	0.8(****)	0.5(****)	1.7(1.0)	0.6(****)	0.4(****)
Graduated H.S.	3.2(0.3)	1.8(****)	1.6(0.5)	2.0(0.6)	1.8(0.6)	2.5(0.7)	1.8(0.8)
Some Educ After H.S.	5.7(1.0)	2.4(****)	4.4(1.4)	5.4(1.3)	4.8(1.5)	6.2(1.5)	7.0(2.5)
Graduated College	5.4(0.7)	3.7(1.1)	5.0(1.0)	4.5(0.6)	5.0(0.6)	5.1(0.7)	7.0(0.7)
Unknown	1.7(0.4)	0.8(0.5)	1.4(0.4)	1.6(0.5)	1.9(0.4)	2.4(0.5)	1.9(0.4)
Type Of School							
Public	2.9(0.3)@	2.3(0.7)	2.8(0.6)	3.0(0.4)	3.2(0.3)	3.6(0.5)	4.1(0.3)
Non-Public	5.1(1.1)	2.1(1.2)	4.0(0.7)	3.9(1.0)	4.6(1.3)	5.6(1.0)	6.5(2.2)
Quartiles							
Upper	12.0(0.9)@	9.1(2.3)	11.7(1.7)	12.1(1.3)	13.2(1.1)	14.6(1.6)	17.1(1.3)
Middle two	0.3(0.1)	0.0(****)	0.1(0.1)	0.2(****)	0.2(0.1)	0.3(0.1)	0.2(0.1)
Lower	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 300

	1977	1982	1986	1990	1992	1994	1996
TELEVISION WATCHED/DAY							
0 - 2 HOURS	*****(****)	*****(****)	3.9(0.9)	3.6(0.5)	4.0(0.5)	4.1(0.7)	5.5(0.8)
3 - 5 HOURS	*****(****)	*****(****)	3.4(0.6)	3.3(0.6)	3.6(0.5)	4.5(0.7)	4.0(0.6)
6 HOURS OR MORE	*****(****)	*****(****)	1.6(0.3)	1.9(0.5)	1.8(0.6)	1.7(0.5)	2.2(0.7)
RULES CONCERNING TELEVISION VIEWING							
HAVE RULES	*****(****)	*****(****)	2.9(0.6)	3.1(0.6)	3.7(0.5)	4.1(0.6)	5.3(1.1)
DO NOT HAVE RULES	*****(****)	*****(****)	3.1(0.6)	3.1(0.5)	3.2(0.3)	3.6(0.4)	3.7(0.6)
MOTHER'S EDUCATION							
LESS THAN H.S.	*****(****)	0.4(****)	1.0(****)	0.7(0.5)	1.5(0.7)	0.9(****)	0.8(0.6)
GRADUATED H.S.	*****(****)	2.4(1.5)	2.5(0.8)	3.0(0.7)	2.6(0.8)	3.2(0.9)	2.9(1.0)
SOME EDUC AFTER H.S	*****(****)	5.0(****)	4.7(2.1)	6.1(2.0)	6.0(1.9)	6.2(1.6)	8.7(2.1)
GRADUATED COLLEGE	*****(****)	3.9(1.1)	5.2(1.1)	4.6(0.6)	5.1(0.7)	5.0(0.8)	7.3(0.8)
UNKNOWN	*****(****)	0.8(0.4)	1.8(0.5)	1.8(0.5)	2.1(0.3)	2.8(0.5)	2.1(0.3)
FATHER'S EDUCATION							
LESS THAN H.S.	*****(****)	0.8(****)	1.1(****)	1.2(0.6)	1.9(1.1)	0.9(****)	2.1(1.1)
GRADUATED H.S.	*****(****)	2.6(1.3)	2.0(0.9)	2.5(0.7)	2.5(0.6)	3.2(1.1)	2.8(0.9)
SOME EDUC AFTER H.S	*****(****)	3.3(****)	4.9(1.2)	5.4(1.6)	5.0(1.4)	5.3(1.9)	6.9(1.8)
GRADUATED COLLEGE	*****(****)	3.5(1.2)	5.6(1.1)	5.1(0.7)	5.4(0.7)	5.6(0.8)	7.6(0.9)
UNKNOWN	*****(****)	1.0(0.5)	1.6(0.4)	1.7(0.4)	2.0(0.3)	2.6(0.4)	2.5(0.5)
TIME SPENT ON HOMEWORK							
NONE	*****(****)	*****(****)	2.2(1.3)	3.9(1.7)	2.8(1.2)	3.1(****)	3.8(2.1)
15 MINUTES OR LESS	*****(****)	*****(****)	2.3(0.9)	2.1(0.6)	2.4(0.4)	2.9(0.6)	3.1(0.8)
1/2 HOUR	*****(****)	*****(****)	3.6(0.6)	3.6(0.5)	4.3(0.6)	4.4(0.6)	5.6(0.7)
1 HOUR	*****(****)	*****(****)	3.5(0.8)	3.5(0.8)	3.6(0.7)	4.7(1.0)	4.8(1.2)
MORE THAN 1 HOUR	*****(****)	*****(****)	2.4(0.7)	2.8(0.7)	3.0(0.7)	3.1(1.1)	3.6(1.2)
COMPUTER USAGE							
HAVE USED	*****(****)	*****(****)	3.5(0.5)	3.6(0.4)	3.9(0.3)	4.3(0.5)	5.0(0.4)
HAVE NOT USED	*****(****)	*****(****)	1.4(0.4)	1.0(0.4)	1.3(0.4)	1.5(0.6)	1.8(0.8)
FAMILY OWNS A COMPUTER							
YES	*****(****)	*****(****)	4.4(0.9)	4.8(0.8)	4.9(0.6)	5.1(0.6)	6.2(0.8)
NO	*****(****)	*****(****)	2.5(0.4)	2.3(0.4)	2.6(0.3)	2.9(0.6)	2.7(0.4)
MOTHER/STEPMOTHER EMPLOYMENT							
HAS A JOB	*****(****)	*****(****)	3.2(0.5)	3.1(0.4)	3.4(0.4)	4.0(0.3)	4.3(0.5)
DOES NOT HAVE A JOB	*****(****)	*****(****)	2.8(0.7)	3.3(0.6)	3.5(0.7)	3.5(1.3)	5.0(0.7)
MTHR LIVES ELSEWHERE	*****(****)	*****(****)	1.7(****)	2.3(1.6)	1.6(****)	0.7(****)	1.9(****)

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 (****) Standard error estimates cannot be accurately determined.

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 300

	1977	1982	1986	1990	1992	1994	1996
FATHER/STEPFATHER EMPLOYMENT							
HAS A JOB	*****(****)	*****(****)	3.2(0.5)	3.3(0.4)	3.6(0.3)	4.1(0.6)	4.7(0.5)
DOES NOT HAVE A JOB	*****(****)	*****(****)	1.8(0.7)	2.2(1.1)	2.6(1.0)	1.8(0.9)	2.5(0.9)
FTHR LIVES ELSEWHERE	*****(****)	*****(****)	1.8(1.2)	2.2(0.7)	2.0(0.9)	2.4(1.1)	3.1(1.0)
SCIENCE CLASS							
EVERY DAY	*****(****)	*****(****)	3.2(0.6)	3.2(0.6)	3.9(0.5)	3.8(0.7)	4.9(0.9)
SEVERAL/WEEK	*****(****)	*****(****)	4.7(1.0)	3.8(0.6)	4.2(0.5)	4.9(0.9)	5.8(0.6)
ABOUT ONCE/WEEK	*****(****)	*****(****)	1.7(0.6)	2.7(0.6)	2.7(0.6)	3.3(0.9)	3.8(1.1)
< ONCE/WEEK	*****(****)	*****(****)	2.1(1.1)	2.3(1.2)	2.5(1.6)	4.2(1.6)	3.3(2.2)
HARDLY EVER OR NONE	*****(****)	*****(****)	1.2(0.5)	1.7(0.7)	1.6(0.4)	2.2(0.8)	1.6(0.7)
SHADOW EXPERIMENTS							
HAVE DONE	4.2(1.2)	2.9(1.1)	3.4(0.9)	4.3(0.9)	4.1(0.9)	4.5(0.9)	5.8(1.6)
HAVE NOT DONE	2.6(0.7)	1.7(0.7)	2.8(0.8)	2.3(0.7)	3.1(0.6)	3.6(0.9)	3.3(0.7)
NOT CERTAIN	0.4(****)	2.4(****)	0.4(****)	1.6(****)	0.8(****)	2.1(****)	1.1(****)
LIVING PLANTS EXPERIMENTS							
HAVE DONE	3.5(0.8)	2.8(0.9)	3.4(0.7)	3.7(0.7)	3.9(0.6)	4.6(0.7)	5.0(1.0)
HAVE NOT DONE	2.5(1.4)	1.3(****)	2.4(1.1)	2.3(0.8)	2.6(0.6)	2.4(1.0)	2.3(0.9)
NOT CERTAIN	0.9(****)	1.2(****)	0.3(****)	1.1(****)	1.9(****)	3.0(****)	1.9(****)
LIVING ANIMAL EXPERIMENTS							
HAVE DONE	2.6(0.7)	2.5(0.9)	2.6(0.8)	3.6(1.0)	3.2(0.7)	3.7(1.0)	4.3(1.4)
HAVE NOT DONE	4.1(1.0)	2.0(0.8)	3.3(0.7)	3.0(0.7)	3.7(0.6)	4.0(0.9)	4.1(1.0)
NOT CERTAIN	0.3(****)	2.3(****)	2.5(****)	1.2(****)	1.6(****)	3.3(****)	3.0(****)
BATTERIES & BULBS EXPERIMENTS							
HAVE DONE	4.4(1.1)	2.6(0.9)	3.5(1.1)	4.1(1.0)	3.7(0.7)	4.7(1.1)	4.8(1.1)
HAVE NOT DONE	2.0(0.6)	1.9(0.7)	2.8(1.0)	2.4(0.6)	3.1(0.5)	3.2(0.9)	3.7(1.2)
NOT CERTAIN	0.2(****)	1.4(****)	0.6(****)	1.2(****)	3.5(1.7)	2.2(****)	1.4(****)
DISSOLVING IN WATER EXPERIMENTS							
HAVE DONE	3.8(0.9)	2.8(0.9)	3.2(0.8)	3.3(0.6)	3.5(0.7)	4.4(0.7)	4.9(1.1)
HAVE NOT DONE	2.0(0.6)	1.5(0.8)	2.9(1.2)	3.0(1.3)	3.8(1.1)	2.9(1.1)	2.7(1.1)
NOT CERTAIN	0.2(****)	0.7(****)	0.9(****)	2.6(****)	1.4(****)	1.9(1.2)	2.3(****)
METER STICK USAGE							
HAVE USED	3.8(0.9)	2.7(0.9)	3.0(0.7)	3.5(0.8)	3.7(0.6)	4.3(0.9)	5.3(0.9)
HAVE NOT USED	2.6(0.7)	1.7(0.9)	2.5(1.0)	1.8(0.9)	2.1(1.0)	2.2(1.2)	3.0(1.6)
NOT CERTAIN	2.4(****)	1.0(****)	1.3(****)	1.9(****)	2.3(****)	4.0(2.0)	4.0(2.8)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 300

	1977	1982	1986	1990	1992	1994	1996
SCALE USAGE							
HAVE USED	3.4(0.6)	2.5(0.8)	3.0(0.8)	3.1(0.7)	3.3(0.5)	4.0(0.7)	4.9(1.0)
HAVE NOT USED	0.8(****)	0.5(****)	1.2(****)	1.8(****)	2.0(****)	0.9(****)	2.6(****)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
MAGNIFYING GLASS USAGE							
HAVE USED	3.4(0.6)	2.7(0.8)	3.0(0.8)	3.2(0.7)	3.4(0.5)	4.0(0.6)	5.0(0.9)
HAVE NOT USED	1.3(0.8)	0.5(****)	0.8(0.3)	0.6(****)	1.2(****)	1.3(****)	0.1(****)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
TELESCOPE USAGE							
HAVE USED	4.0(1.3)	2.9(1.2)	3.7(1.2)	3.5(0.8)	3.7(0.7)	4.5(0.8)	5.8(1.2)
HAVE NOT USED	2.5(0.7)	1.9(0.6)	1.5(0.6)	2.0(0.7)	2.3(0.7)	2.6(0.9)	2.7(0.7)
NOT CERTAIN	0.8(****)	0.2(****)	****(****)	****(****)	1.9(****)	****(****)	****(****)
THERMOMETER USAGE							
HAVE USED	3.4(0.7)	2.5(0.8)	2.9(0.6)	3.2(0.7)	3.4(0.5)	4.2(0.6)	4.8(0.9)
HAVE NOT USED	2.1(1.2)	1.8(1.1)	1.9(****)	0.9(****)	1.9(****)	0.8(****)	1.6(****)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)
MICROSCOPE USAGE							
HAVE USED	4.0(0.9)	3.3(1.1)	3.9(1.5)	3.8(0.9)	4.0(0.6)	4.7(0.9)	6.1(1.3)
HAVE NOT USED	2.2(0.6)	1.3(0.6)	1.3(0.8)	1.6(0.8)	2.0(0.8)	2.6(0.9)	2.7(0.9)
NOT CERTAIN	1.6(****)	2.1(****)	1.3(****)	1.1(****)	1.6(****)	2.0(****)	1.6(****)
DIRECTIONAL COMPASS USAGE							
HAVE USED	3.6(0.8)	2.8(1.0)	3.4(0.9)	3.5(0.7)	3.7(0.6)	4.3(0.7)	5.1(1.1)
HAVE NOT USED	2.7(0.7)	1.8(0.7)	1.7(0.7)	1.6(0.9)	2.2(1.1)	2.2(1.0)	3.1(1.1)
NOT CERTAIN	0.5(****)	0.3(****)	0.1(****)	1.7(****)	1.2(****)	2.6(****)	3.4(****)
STOPWATCH USAGE							
HAVE USED	4.0(0.9)	3.2(1.2)	3.5(0.9)	3.5(0.8)	3.6(0.6)	4.3(0.7)	5.4(1.0)
HAVE NOT USED	2.6(0.8)	1.4(0.6)	1.6(0.7)	1.5(0.8)	1.9(0.8)	2.4(1.1)	1.9(1.3)
NOT CERTAIN	1.2(****)	0.8(****)	0.7(****)	0.3(****)	2.2(****)	1.9(****)	2.1(****)
YARDSTICK USAGE							
HAVE USED	3.6(0.6)	2.5(0.8)	3.1(0.8)	3.4(0.7)	3.6(0.5)	4.3(0.8)	5.2(1.0)
HAVE NOT USED	0.5(****)	0.6(****)	1.4(****)	1.4(****)	1.8(0.7)	1.4(****)	2.2(****)
NOT CERTAIN	****(****)	****(****)	0.5(****)	0.2(****)	2.4(****)	3.4(****)	3.1(****)
CALCULATOR USAGE							
HAVE USED	3.5(0.7)	2.5(0.7)	2.8(0.8)	3.0(0.6)	3.3(0.5)	3.9(0.6)	4.7(0.9)
HAVE NOT USED	0.7(****)	0.1(****)	0.9(****)	****(****)	****(****)	****(****)	****(****)
NOT CERTAIN	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)	****(****)

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 L/l indicates a significant POSITIVE/negative linear trend; Q/q indicates a POSITIVE/negative quadratic trend; NA means linear and quadratic trends were not tested due to lack of at least 5 trend points with sufficient sample size to estimate the statistics and their standard errors.
 (****) Standard error estimates cannot be accurately determined.
 *****(****) Sample size is insufficient to permit a reliable estimate.

WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 300

	1977	1982	1986	1990	1992	1994	1996
BALANCE USAGE							
HAVE USED	3.3(1.1)	2.7(1.4)	2.6(1.1)	3.6(0.9)	3.6(0.7)	4.3(0.9)	5.2(1.0)
HAVE NOT USED	2.8(0.6)	2.3(1.0)	2.7(1.1)	2.3(0.9)	2.7(0.7)	2.9(1.0)	3.3(1.4)
NOT CERTAIN	3.6(1.5)	1.6(0.8)	3.1(1.2)	3.0(1.1)	3.3(1.1)	4.2(1.5)	5.2(2.8)
DIFFERENCES							
WHITE - BLACK	3.7(0.4)	2.8(1.0)	3.5(0.7)	3.8(0.4)	4.0(0.5)	4.7(0.7)	5.5(0.6)
WHITE - HISPANIC	3.6(0.5)	2.9(0.9)	3.6(0.6)	3.6(0.6)	3.9(0.5)	4.2(0.8)	5.5(0.6)
MALE - FEMALE	1.1(0.4)	0.4(****)	1.7(0.8)	2.2(0.6)	2.4(0.7)	1.3(0.8)	1.6(0.9)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 350

	1977	1982	1986	1990	1992	1994	1996
-- Total --	0.1(0.0)	0.0(****)	0.1(****)	0.1(0.0)	0.1(****)	0.1(0.0)	0.1(0.1)
Gender							
Male	0.1(0.0)	0.1(****)	0.1(****)	0.1(0.1)	0.1(0.1)	0.1(0.1)	0.2(0.1)
Female	0.1(0.0)	0.0(****)	0.1(****)	0.0(****)	0.0(****)	0.0(****)	0.1(****)
Race/Ethnicity							
White	0.1(0.0)	0.1(****)	0.1(****)	0.1(0.1)	0.1(****)	0.1(0.1)	0.2(0.1)
Black	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
Hispanic	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
Other	0.0(****)	*****(****)	0.1(****)	0.1(****)	0.0(****)	0.0(****)	0.0(****)
Grade							
Below Modal Grade	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
At Modal Grade	0.1(0.0)	0.1(****)	0.2(****)	0.1(0.1)	0.1(****)	0.1(0.1)	0.2(0.1)
Above Modal Grade	0.9(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)
Region							
Northeast	0.1(0.1)	0.0(****)	0.2(****)	0.0(****)	0.1(****)	0.1(****)	0.2(****)
Southeast	0.0(****)	0.0(****)	0.1(****)	0.1(****)	0.0(0.0)	0.1(****)	0.1(****)
Central	0.1(****)	0.0(****)	0.1(****)	0.1(****)	0.2(****)	0.1(0.1)	0.1(****)
West	0.0(****)	0.1(****)	0.1(****)	0.1(****)	0.0(****)	0.1(****)	0.1(0.1)
Type Of Location							
Central City	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	0.0(****)	0.2(****)
Urban Fringe/Large Tow	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	0.1(****)	0.1(****)
Rural/Small Town	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	0.1(****)	0.1(****)
Parents' Education Level							
Less than H.S.	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.1(****)	0.0(****)	0.0(****)
Graduated H.S.	0.1(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.1(****)	0.0(****)
Some Educ After H.S.	0.1(****)	0.0(****)	0.1(****)	0.1(****)	0.1(****)	0.1(****)	0.2(****)
Graduated College	0.1(0.1)	0.1(****)	0.2(****)	0.1(0.1)	0.1(0.1)	0.1(****)	0.2(0.1)
Unknown	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.1(****)	0.0(****)
Type Of School							
Public	0.0(0.0)	0.1(****)	0.1(****)	0.1(0.0)	0.1(0.0)	0.1(0.1)	0.1(0.1)
Non-Public	0.2(****)	0.0(****)	0.2(****)	0.1(****)	0.1(****)	0.1(****)	0.3(****)
Quartiles							
Upper	0.2(0.1)	0.2(****)	0.4(****)	0.2(0.1)	0.3(****)	0.3(0.2)	0.5(0.3)
Middle two	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
Lower	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 350

	1977	1982	1986	1990	1992	1994	1996
TELEVISION WATCHED/DAY							
0 - 2 HOURS	*****(***)	*****(***)	0.1(***)	0.1(***)	0.1(***)	0.1(***)	0.2(0.1)
3 - 5 HOURS	*****(***)	*****(***)	0.2(***)	0.1(***)	0.1(***)	0.1(***)	0.1(0.1)
6 HOURS OR MORE	*****(***)	*****(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)
RULES CONCERNING TELEVISION VIEWING							
HAVE RULES	*****(***)	*****(***)	0.1(***)	0.1(***)	0.1(***)	0.0(***)	0.2(***)
DO NOT HAVE RULES	*****(***)	*****(***)	0.1(***)	0.1(***)	0.1(0.0)	0.1(0.1)	0.1(***)
MOTHER'S EDUCATION							
LESS THAN H.S.	*****(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)	0.0(***)	0.0(***)
GRADUATED H.S.	*****(***)	0.0(***)	0.1(***)	0.0(***)	0.0(***)	0.1(***)	0.1(***)
SOME EDUC AFTER H.S	*****(***)	0.0(***)	0.1(***)	0.1(***)	0.1(***)	0.1(***)	0.2(***)
GRADUATED COLLEGE	*****(***)	0.1(***)	0.3(***)	0.2(0.1)	0.1(***)	0.1(***)	0.2(0.1)
UNKNOWN	*****(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)	0.1(***)
FATHER'S EDUCATION							
LESS THAN H.S.	*****(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)	0.0(***)	0.1(***)
GRADUATED H.S.	*****(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)	0.0(***)
SOME EDUC AFTER H.S	*****(***)	0.0(***)	0.2(***)	0.0(***)	0.0(***)	0.1(***)	0.3(***)
GRADUATED COLLEGE	*****(***)	0.1(***)	0.3(***)	0.2(0.1)	0.2(***)	0.1(***)	0.3(0.2)
UNKNOWN	*****(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)	0.0(***)
TIME SPENT ON HOMEWORK							
NONE	*****(***)	*****(***)	0.1(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)
15 MINUTES OR LESS	*****(***)	*****(***)	0.1(***)	0.0(***)	0.0(***)	0.1(***)	0.1(***)
1/2 HOUR	*****(***)	*****(***)	0.1(***)	0.1(***)	0.1(***)	0.1(***)	0.2(***)
1 HOUR	*****(***)	*****(***)	0.1(***)	0.0(***)	0.1(***)	0.1(***)	0.1(***)
MORE THAN 1 HOUR	*****(***)	*****(***)	0.1(***)	0.1(***)	0.0(***)	0.1(***)	0.0(***)
COMPUTER USAGE							
HAVE USED	*****(***)	*****(***)	0.1(***)	0.1(0.0)	0.1(***)	0.1(0.1)	0.1(0.1)
HAVE NOT USED	*****(***)	*****(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)
FAMILY OWNS A COMPUTER							
YES	*****(***)	*****(***)	0.2(***)	0.1(0.1)	0.2(***)	0.1(***)	0.2(***)
NO	*****(***)	*****(***)	0.1(***)	0.0(***)	0.0(***)	0.1(***)	0.1(***)
MOTHER/STEPMOTHER EMPLOYMENT							
HAS A JOB	*****(***)	*****(***)	0.1(***)	0.1(0.0)	0.1(***)	0.1(0.1)	0.1(***)
DOES NOT HAVE A JOB	*****(***)	*****(***)	0.1(***)	0.0(***)	0.1(***)	0.0(***)	0.1(***)
MTHR LIVES ELSEWHERE	*****(***)	*****(***)	0.0(***)	0.1(***)	0.0(***)	0.0(***)	0.2(***)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 350

	1977	1982	1986	1990	1992	1994	1996
FATHER/STEPFATHER EMPLOYMENT							
HAS A JOB	*****(***)	*****(***)	0.1(***)	0.1(0.0)	0.1(***)	0.1(0.1)	0.1(0.1)
DOES NOT HAVE A JOB	*****(***)	*****(***)	0.1(***)	0.1(***)	0.0(***)	0.0(***)	0.1(***)
FTHR LIVES ELSEWHERE	*****(***)	*****(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.3(***)
SCIENCE CLASS							
EVERY DAY	*****(***)	*****(***)	0.2(***)	0.0(***)	0.1(***)	0.1(***)	0.2(***)
SEVERAL/WEEK	*****(***)	*****(***)	0.1(***)	0.1(0.1)	0.1(***)	0.1(***)	0.2(***)
ABOUT ONCE/WEEK	*****(***)	*****(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)	0.1(***)
< ONCE/WEEK	*****(***)	*****(***)	0.0(***)	0.0(***)	0.1(***)	0.2(***)	0.0(***)
HARDLY EVER OR NONE	*****(***)	*****(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)
SHADOW EXPERIMENTS							
HAVE DONE	0.1(***)	0.1(***)	0.2(***)	0.1(***)	0.0(***)	0.2(***)	0.1(***)
HAVE NOT DONE	0.0(***)	0.0(***)	0.1(***)	0.0(***)	0.1(***)	0.1(***)	0.0(***)
NOT CERTAIN	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)
LIVING PLANTS EXPERIMENTS							
HAVE DONE	0.0(***)	0.1(***)	0.2(***)	0.0(***)	0.1(***)	0.1(***)	0.1(***)
HAVE NOT DONE	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)	0.0(***)
NOT CERTAIN	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)
LIVING ANIMAL EXPERIMENTS							
HAVE DONE	0.1(***)	0.1(***)	0.1(***)	0.1(***)	0.0(***)	0.0(***)	0.1(***)
HAVE NOT DONE	0.0(***)	0.0(***)	0.1(***)	0.0(***)	0.1(***)	0.1(***)	0.1(***)
NOT CERTAIN	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.2(***)	0.6(***)	0.0(***)
BATTERIES & BULBS EXPERIMENTS							
HAVE DONE	0.0(***)	0.0(***)	0.2(***)	0.1(***)	0.0(***)	0.2(***)	0.0(***)
HAVE NOT DONE	0.0(***)	0.1(***)	0.1(***)	0.0(***)	0.1(***)	0.0(***)	0.1(***)
NOT CERTAIN	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.2(***)	0.0(***)	0.0(***)
DISSOLVING IN WATER EXPERIMENTS							
HAVE DONE	0.0(***)	0.1(***)	0.2(***)	0.0(***)	0.0(***)	0.2(***)	0.1(***)
HAVE NOT DONE	0.0(***)	0.0(***)	0.1(***)	0.0(***)	0.2(***)	0.0(***)	0.0(***)
NOT CERTAIN	0.0(***)	0.0(***)	0.1(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)
METER STICK USAGE							
HAVE USED	0.1(***)	0.1(***)	0.1(***)	0.0(***)	0.1(***)	0.1(***)	0.2(***)
HAVE NOT USED	0.1(***)	0.0(***)	0.0(***)	0.0(***)	0.0(***)	0.1(***)	0.0(***)
NOT CERTAIN	0.0(***)	0.0(***)	0.0(***)	0.1(***)	0.1(***)	0.0(***)	0.3(***)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 350

	1977	1982	1986	1990	1992	1994	1996
SCALE USAGE							
HAVE USED	0.1(****)	0.1(****)	0.1(****)	0.0(****)	0.1(****)	0.1(****)	0.2(0.1)
HAVE NOT USED	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
NOT CERTAIN	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)
MAGNIFYING GLASS USAGE							
HAVE USED	0.1(****)	0.1(****)	0.1(****)	0.0(****)	0.1(****)	0.1(****)	0.2(0.1)
HAVE NOT USED	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
NOT CERTAIN	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)
TELESCOPE USAGE							
HAVE USED	0.1(****)	0.0(****)	0.1(****)	0.1(****)	0.1(****)	0.1(****)	0.3(0.1)
HAVE NOT USED	0.1(****)	0.1(****)	0.1(****)	0.0(****)	0.0(****)	0.0(****)	0.1(****)
NOT CERTAIN	0.0(****)	0.0(****)	*****(****)	*****(****)	0.3(****)	*****(****)	*****(****)
THERMOMETER USAGE							
HAVE USED	0.1(****)	0.1(****)	0.1(****)	0.0(****)	0.1(****)	0.1(****)	0.2(0.1)
HAVE NOT USED	0.0(****)	0.0(****)	0.4(****)	0.0(****)	0.1(****)	0.0(****)	0.0(****)
NOT CERTAIN	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)
MICROSCOPE USAGE							
HAVE USED	0.1(****)	0.1(****)	0.1(****)	0.1(****)	0.1(****)	0.1(0.1)	0.3(0.2)
HAVE NOT USED	0.0(****)	0.0(****)	0.1(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
NOT CERTAIN	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
DIRECTIONAL COMPASS USAGE							
HAVE USED	0.1(****)	0.1(****)	0.1(****)	0.0(****)	0.1(****)	0.1(****)	0.2(0.1)
HAVE NOT USED	0.0(****)	0.0(****)	0.1(****)	0.1(****)	0.0(****)	0.0(****)	0.1(****)
NOT CERTAIN	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
STOPWATCH USAGE							
HAVE USED	0.2(****)	0.1(****)	0.1(****)	0.1(****)	0.1(****)	0.1(****)	0.2(0.1)
HAVE NOT USED	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.1(****)
NOT CERTAIN	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
YARDSTICK USAGE							
HAVE USED	0.1(****)	0.1(****)	0.1(****)	0.0(****)	0.1(****)	0.1(****)	0.2(0.1)
HAVE NOT USED	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)
NOT CERTAIN	*****(****)	*****(****)	0.0(****)	0.0(****)	0.4(****)	0.0(****)	0.0(****)
CALCULATOR USAGE							
HAVE USED	0.1(****)	0.1(****)	0.1(****)	0.0(****)	0.1(****)	0.1(****)	0.2(0.1)
HAVE NOT USED	0.0(****)	0.0(****)	0.4(****)	*****(****)	*****(****)	*****(****)	*****(****)
NOT CERTAIN	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)	*****(****)

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WEIGHTED PERCENTAGES OF STUDENTS WITH AVERAGE SCALE SCORES AT OR ABOVE LEVEL 350

	1977	1982	1986	1990	1992	1994	1996
BALANCE USAGE							
HAVE USED	0.1(****)	0.0(****)	0.0(****)	0.0(****)	0.0(****)	0.1(****)	0.2(****)
HAVE NOT USED	0.0(****)	0.1(****)	0.1(****)	0.1(****)	0.1(****)	0.0(****)	0.3(****)
NOT CERTAIN	0.1(****)	0.0(****)	0.1(****)	0.1(****)	0.0(****)	0.1(****)	0.0(****)
DIFFERENCES							
WHITE - BLACK	0.1(0.0)@	0.1(****)	0.1(****)	0.1(0.1)	0.1(****)	0.1(0.1)@	0.2(0.1)
WHITE - HISPANIC	0.1(0.0)@	0.1(****)	0.1(****)	0.1(****)	0.1(****)	0.1(0.1)@	0.2(0.1)
MALE - FEMALE	0.0(****)	0.0(****)	0.0(****)	0.1(0.1)	0.1(****)	0.1(****)	0.1(****)

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