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| TITLE | The Cost of Sex Bias in Schools and Society. The Report Card \#l. Updated Edition. |
| INSTITUTION | American Univ., Washington, D.C. Mid-Atlantic Center for Sex Equity.; NETWORK, Inc., Andover, MA. |
| PIJB DATE | 89 |
| NOTE | 10p.; This edition updated by Mary Jo Strauss. |
| PUB TIPE | Reports - Descriptive (141) |
| EDRS PRICE | MFOL/PCOl Plus Postage. |
| DESCRIPTORS | Educational Research; Elementary Secondary Education; <br> *Equal Education; Equal Opportunities (Jobs); |
|  | ```Females; Males; *Sex Bias; Sex Discriminatic.l; *Sex Fairness; Sex Role; *Sex Stereotypes; Social Probloms; Social Science Research``` |
| ABSTRACT |  |
| sex bias in | The losses that both girls and boys suffer because of iety and in education are summarized in this report. |
| For both girl are ? isted in career and fa | nd boys, statements based on research in these fields e academic, psychological and physical realms, and <br> $y$ relationships. (53 endnotes) (DB) |

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# The Report Card \#1 

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# The Cost of Sex Bias in Schools and Society 

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## Report Card:

## The Cost of Sex Bias in Schools and Society

Here is a report card you will not find in any elementary or secondary school. Nevertheless, it is an important evaluation. It reflects the losses that both girls and boys suffer because of sex bias in society and in education. Years after the passage of Title IX of the Education Amendments of 1972, the law that prohibits sex discrimination in schools receiving federal financial assistance, gender inequities continue to permeate schools.

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GIRLS

## Academic

- Girls' overall academic performance as indicated by national averages on achievement tests surpasses boys' in the early years and then declines relative to boys' as th3y progress through school. Girls begin school ahead and end up behind. ${ }^{1}$
- At the junior high level, males and females do equally well on the National Assessment of Educational Prodress (NAEP) mathematics test; however, in grades ll-12, the mean NABP score for males on the "application of mathematics" component substantially exceeds the female score. ${ }^{2}$
- On the NAEP science measures, the mean scores of males exceed those of females at all age levels. By age 17, White males outscore White females by 14 percent. They also outscore Black males by 42 percent and Black females by 48 percent.
- On all College Board Achievement and Advanced Placement (AP) tests in mathematics and science, the mean scores of males exceed those of females. Except for AP tests in computer science and mechanics in which White and Asian males score about the same, Asian males outperform all other students in mathematics and science. The AP scores of Asian females and White males are similar in biolosy, chemistry, calculus and general physics. White female scores are lower and similar to those of Black and Hispanic males, while Black and Hispanic females score lowest on
- Males outperform females substantially on all subsections of the Scholastic Aptitude Test (SAT) and the American College Testing Program Examination (ACT). The largest gap is in the mathematics section of the SAT followed by the ACT natural science reading, the ACT mathematics usage and the ACT nocial studies reading. ${ }^{4}$
- The College Board Achievement Tests are required for admission to more selective colleges and universities. On these achievement tests, males outperform females in French, Latin, Spanish, European history, American history, biology, chemistry, physics and mathematics. ${ }^{\circ}$
- Students may earn college credit in various subjects through the College Board Advanced Placement (AP) Test program. Except in languafes and tine arts, males from all racial groups outscore females within their ractal groups on AP Tests, so the overall mean score for males in each group is generally higher. However, among Hispanic students taking the 1987 tests, the overall mean score for females did exceed that for males. ${ }^{\circ}$
- In spite of a decline in perfomnance on standardized achievement tests, girls trequently receive better grades in school. This may be one of the rewards they get for seeming to be more compliant in the classroom. However, this may be at the cost of achievement as measured by standardized tests, independence and self-reliance. ${ }^{7}$
- Girls are more likely to be invisible members, of jlassrooms with minority girls being the least visible. They receive fewer academic contants, less praise and constructive feedback, fewer complex and abstract questions and less instruction on how to do things for themselves. ${ }^{\text {a }}$
- Those girls who are identified as gifted are less likely to participate in special or accelerated programs to develop their talent. ${ }^{\circ}$
- Girls who expemience learning disabilities are also less likely to be identified or to participate in special education programs than are learning disabled boys. ${ }^{10}$
- In urban areas, 43 percent of all young males who drop out are likely to return to school. For young females who drop out, the return rate is only 25 percent. ${ }^{11}$
- In 1987, females received ondy 38 percent of more than 6,000 National Merlt Scholarships awarded on the basis of Preliminary Scholastic Aptitude Test (PSAT) scores. ${ }^{12}$ Sole rellance on a score from a test which is biased results in the underrepresentation of women and minorities in this scholarship program. ${ }^{13}$
- On tests for admission to graduate and professional schools, males outperform females on the Graduate Record Exam (GRE), the Medical College Admissions Test (MCAT) and the Graduate Management Admissions Test (GMAT). ${ }^{14}$
- Whlle women are the majority of students enrolled at two- and four-year colleges, they are in the minority at the most selective, coeducational, Lberal arts colliges and research universities, and are also in the minority of all fullime, fegularly matriculated students younger than 25 years of


## Psychosocial and Physical

- Although fernales receive better grades than males, they are less likely to believe tiney can do college work. Females exhibit lower self-esteem than males during secondary and postsecondary education. ${ }^{21}$
- Girls have less c unfidence than boys in their mathematical ability. Low female confldence and performance in mathematics may stem from society's sex-stereotyping of this fleld as a masculine discipline. ${ }^{22}$
- Girls have less positive attitudes toward science than do boys. With their parents' encouragernent, boys, more often than girls, leam scierice outside of school through toys, hobbies, television programs and museum visits. 23
- Jnder THtle IX, all students must have equal access to extracurricular activities, including athletics. Integrating grris' and boys' sports has led to a decrease in athletic positions and job losses for female coaches in many school systems and to the simultaneous loss of much needed female role models. ${ }^{24}$
- Many physical education instructors received their training in sex-segregated programs and are unfamillar with techniques needed to teach classes in which students have a wide range of skill levels. As a result, many "coed" classes still operate with boys on one side of the gym and girls on tre other. This perpetuates unequal skdll development opportunities for girls, and denies boys opportunities to see girls as phystcally competent and to enjoy mixed gender competition. ${ }^{20}$
- One in ten teenage grisls becomes pregnant every year. For more than 40 percent of all adolescent girls who drop out of school, the cause is pregnancy. Teenage pregnancy is related to a constellation of factors including poverty, low self-esteem, academic fallure and the perception of few life options. ${ }^{26}$
- Regardless of race or ethnicity, poor toenage women with below-averase basic skdlls have almost
identical pregnancy rates. ${ }^{27}$
- Although most adolescents and young adult women have heard of AIDS and other STDs (Sexually Transmitted Diseases), the majority do not know about PIDs (Pelvic Inflammatory Diseases) and how extensively adolescent females may be affected or how these microorganisms affect males. ${ }^{20}$


## Career and Family Relationships

- As a result of sex-role stereotyping, society views some occupations as "men's jobs," and others as "women's jobs." Nontraditional jols for women, those in which fewer than one-fourth of the workers are female, include many better paying jobs, especially those in industrial-technical trades, engineering, science and management. ${ }^{41}$
- Women's nontraditional jobs entall the aprlication of mathematics in the daily work routine and/or the use of tools, instiruments and machinery. Since most female high school studonts avoid industrial-technical programs and the miore Migorous mathematics and physical science courses, they are often unprepared to enter apprenticeships or college programs leading to these remunerative jobs. ${ }^{12}$
- Only four percent of female high school seniors, compared to 23 percent of male seniors, report having completed two years of trade-Industry courses such as automotive mechanics, drafting,
welding or truck driving. Only three percent of female seniors, compared to 17 percent of male seniors, repcrt having completed two years of technical courses in communications, transportation or electronics. ${ }^{43}$
- Nearly 75 percent of tomomow's jobs will require the use of computers, but no more than a third of the participants in computer courses, camps and after-school programs are females. ${ }^{44}$
- Family flnances are more likely to affect the college options of females than males. In fact, one study showed that when families were forced to make a financial decision as to whether to send their daughter or their son to college, 80 percent chose the boy. ${ }^{40}$
- Teenagers who become mothers earn about half the income of famales who delay childbearing. When families are headed by young mothers, they are six times as lirely to be in poverty. ${ }^{40}$
- Forty-two percent of all Black families, 23 percent of all Hispanic familles and 13 percent of all White familles in the United States are headed by women ${ }^{47}$
- The preparation that girls receive in school contributes to th3 economic penalties they encounter in the workplace. Although over 90 percent of the girls in our classrooms will work in the paid labor force for all or part of their lives, the following statistics reveal the cost of the bias that they encounter. ${ }^{48}$
- A woman with a college degree will typically earn less than a male high school dropout.
- The tupical working woman will earn 64.5 cents for every dollar earned by a male worker.
- Minority women earn 12-17 percent less than White women and 12-13 percent less than minority men.
- Approxdmately 77 percent of employed women are in non-professional jobs, and only 11 percent are in traditionally male occupations.
- In contrast to the popular bellef that things are getting better for female workers, since 1964 the gap between the wages earned by men and women has remained approximately the same.


## BOYS

## Academic

- Boys are more likely than girls to be scolded and reprimanded in classrooms or referred to school authorities for disciplinary action, even when the observed conduct and behavior of boys and girls does not differ. ${ }^{16}$
- According to data from the U.S. Office for Civil Rights, 81 percent of the incidents of corporal punishment and 71 percent of the suspensions involve males. Of these students, a disproportionately high percentage are minority. ${ }^{17}$
- Not only are boys more likely to be identified as having greater learning and reading disabilities, they also receive lower grades, are more likely to repeat a grade and are more likely to drop out of school. ${ }^{18}$
- According to data from the U.S. Office for Civi Rights, boys are 71 percent of the students identiffed as learning disabled, 78 percent of those designated as seriously emotionally disturbed, and 58 percent of the educable mentally retarded students. Of these, a disproportionately high percentage, especlally of the educable mentally retarded students, are minorities. ${ }^{19}$
- 34,000 fewer Black males enrolled in college from 1976-1988 even though they were completing high school at an increasing rate. ${ }^{20}$
- Society socializes boys into active, independent and aggressive roles. Such behavior is incongruent with schooi norms and rituals that stress quiet behavior and impulse control. This results in a pattern of role conflict for boys, particularly during the elementary years. ${ }^{20}$
- Hyperactivity ifs estimated to ba nine times more prevelent in boys than in giris. Boys are more lukely to be identified as having school and soctal adjustment problems. Kales have higher psychological distress and higher suicide rates. ${ }^{30}$
- The leading cause of death for White males ages 18-24 is accidents, especially automobile accidents. For Black males of the same age, homicide is number one. ${ }^{31}$ Black men have a one in 21 chance of death from homicide; Black women, one in 104; White men one in 131; and White women, one in $369 .{ }^{38}$
- Males are under pressure to succeed, to be winners, to achieve academically, to prepare for high level careers and earning goals and to excel in competitive sports. ${ }^{33}$ Those who are denied legitimate access to success may pursue antisocial or illegal means to gain acceptance.
- Boys ard taught stereotyped behaviors earlier and more harshly than girls; there is a 20 percent greater probability that such stereotyped behavior will stay with them for life. ${ }^{34}$
- Until recently, programs focusing on adolescent sexuality and teen pregnancy were directed almost exclusively at females. Lack of emphasts on the male role placed undue responsibility on females while seemingly condontig males' irresponsibility. ${ }^{30}$
- In 1983, one-third of all 18 to 25 year old fathers lived away from at least one of their children. The majority of absent fathers are White; however, the percentage of fathers living away from the their children is much higher among Blacks with 70 percent of young Black fathers absent from their children. ${ }^{36}$
- Family planning experts say that 50 percent of sexually active single males will contract a sexually transmitted disease by the time they are 26. The highest incidence of venereal disease occurs in young men between is and $25 .{ }^{37}$ Because of their experimentation with sex and drugs, this afe group may run a very high risk of contracting AIDS. ${ }^{38}$ In fact, out of every ten deaths from
AIDS, nine are males. ${ }^{38}$
- The average life expectancy of a baby boy born today is seven years less than for a baby girl. About 60 percent of this gar is attributable to male excesses in drinking, smoking and fatal accidents. ${ }^{40}$


## Career and Framily Relationships

- Teachers and counselors advise boys not to enter sex-stereotyped careers, thereby limiting their potential in occupations such as kindergarten teacher, nurse or secretary, even though there is a great demand for workers in these fields, particularly in urban areas where unemployment of male youths ls high. ${ }^{40}$
- Many boys build career expectations that are higher than their abilities. This results in later compromise, disappointment and frustration. ${ }^{50}$
- Both at school and at home, boys are taught to hide or suppress their emotions; as men, they may find it difloult or impossible to show feelings toward their family and friends. ${ }^{01}$
- Boys are actively discourased from playing with dolls (except those that play sports or wase war). Few schools provide programs that encourade boys to learn parenting skllls. Many men, through absence and apathy, become not so much parents as "transparents." Studies conducted during the late 1970's showed the typical father spending only 12 minutes a day interacting with his children. While more recent studies show increased participation, fathers still spend little time alone with their children. ${ }^{52}$
- Men emphssize the importance of a father earning a good income and providing solutions to family problems. Women, on the other hand, stress the need for fathers to assist in caring for children and responding to the emotional needs of the family. While these differing perceptions of fatherhood lead to family strain and anxiety, progress has occurred. Between 1968 and 1981, men's involvement in child care and housewrork increased from 1.6 hours to 2.0 hours a day. ${ }^{63}$


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