

## GENDER: EARLY SOCIALIZATION

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# The Role of Schools in the Early Socialization of Gender Differences

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December 2013

### Introduction

The question of how gender differences arise is a central topic in psychology. Experts agree that nature (i.e., biology) and nurture (i.e., environment) act together in reciprocally causal, interactive ways to produce gender differences.<sup>1</sup> The experiences afforded to girls and boys within schools are known to affect gender differentiation both directly, by providing differential skill practice and reinforcement,<sup>2</sup> and indirectly, by providing input that leads children to actively socialize themselves along gender-differentiated pathways.<sup>3</sup>

### Subject

Schools are major contexts for gender socialization, in part because children spend large amounts of time engaged with peers in such settings.<sup>4</sup> For nearly all psychological traits on which young boys and girls differ (e.g., reading ability, play preferences), the distribution of the two groups is overlapping. Schools can magnify or diminish gender differences by providing environments that promote within-gender similarity and between-gender differences, or the inverse (within-gender variability and between-group similarity).

### Problems

Schools' affect gender differentiation via two primary sources: teachers and peers. Teachers and peers directly influence gender differentiation by providing boys and girls with different learning opportunities and feedback. Teachers and peers are also sources of learning about gender. Teachers present curricular materials that contain gender stereotypic behaviour, and peers exhibit gender stereotypic attitudes and behaviour. Children internalize gender stereotypes and prejudices, which in turn guide their own preferences and behaviours.<sup>1</sup>

### Research Context

Psychologists have documented the ways in which schooling contributes to gender differences via (a) interviews with school staff and students, (b) naturalistic observations of teachers and students, and (c) experimental studies of classroom conditions. Observational studies allow researchers to examine gender differences, attitudes, and behaviours across a range of school types. Experimental studies allow for the identification of school-related causes of gender differences.

## **Key Research Questions and Recent Research Results**

### ***How do teachers contribute to gender differences?***

Many educators endorse cultural gender stereotypes (e.g., math is easier for boys than girls) and prejudices (show preferences for same-gender individuals).<sup>5</sup> These biases can be explicit (e.g., consciously endorsed) or implicit (unconsciously held), and they influence teachers' classroom behaviours.

Teachers' gender stereotypes and prejudices shape their classroom behaviour in at least three ways. First, teachers often model gender stereotypic behaviour. Female teachers, for example, often exhibit "math phobic" behaviours.<sup>6</sup> Second, teachers often exhibit differential expectations for males and females (e.g., creating "dress-up" and "construction" centers and accepting—even facilitating—gender-differentiated use).<sup>7</sup> Third, teachers facilitate children's gender biases by marking gender as important by using it to label and organize students.<sup>8</sup> In one study, teachers were asked to use gender to label children and to organize classroom activities by, for example, greeting children with "Good morning, boys and girls" and asking children to line up by gender. Other teachers ignored students' gender. Young children whose teachers labeled and used gender showed higher levels of gender stereotyping than their peers.<sup>9</sup> Preschool teachers' labeling and use of gender increases their pupils' gender stereotyping and avoidance of cross-gender playmates.<sup>10</sup>

### ***How do peers contribute to gender differences?***

Like teachers, peers contribute to the socialization of gender difference via multiple pathways. Upon entering school, children encounter large numbers of peers, many of whom model traditional gender behaviour, producing and reinforcing the content of gender stereotypes.

In addition, schools are characterized by gender segregation. When many peers are available, children tend to select same-sex playmates.<sup>11</sup> Children's gender segregation, in turn, affects their play experiences, leading them to spend more time in stereotypic play.<sup>12</sup> Furthermore, gender segregation predicts children's future conformity to gender stereotypes. After observing preschoolers for six months, researchers found that, as the amount of time that children played with same-sex peers increased, children's own behaviour became more gender stereotypic.<sup>11</sup>

Peers also contribute to gender differentiation by teaching their classmates stereotypes (e.g., "Short hair is for boys not girls") and punishing them for failing to conform to stereotypes via verbal harassment and physical aggression.<sup>7</sup> Importantly, intervention programs can teach young children to recognize and challenge their peers' sexist remarks (e.g., "You can't say girls can't play!").<sup>13</sup>

## **Research Gaps**

Many of the socialization processes that lead to gender differentiated outcomes, including gender segregation, are not well understood. In addition, more work is needed to identify effective means to prevent and minimize gender biased attitudes and behaviour. Future research is also needed to document the experiences of children who do not conform to traditional gender roles (e.g., children with same-sex parents or who are transgendered).

## Conclusions

Schools are important contexts for the socialization of young children's gender attitudes and behaviour. Teachers and classmates shape children's gender attitudes and, in turn, gender differences in cognition and behaviour. Unfortunately, teachers receive relatively little training in recognizing and combating gender stereotypes and prejudices—their own and others—and, as a consequence, teachers often model, expect, reinforce, and lay the foundation for gender differentiation among their pupils. Thus, most schools create and maintain—rather than counteract—traditional gender stereotypes, biases, and differences.<sup>14</sup> However, educators who adopt a commitment to gender egalitarianism and thus promote cross-gender interaction, expose pupils to counter-stereotypic models, and discuss and teach challenges to gender stereotyping and harassment optimize their pupils' developmental outcomes.

## Implications for Parent, Services, and Policy

Educational policy makers should resist the creation of gender segregated educational contexts (e.g., single-sex schools) and instead seek to enhance co-educational schools' promotion of gender egalitarian attitudes and behaviour.<sup>15</sup> Teachers need training to recognize their own explicit and implicit biases and how these biases affect their classroom behaviours. Additionally, teachers should receive explicit training in confronting children's biases, so that they reduce peer policing of gender normativity.<sup>16</sup> Parents should seek educational settings for their students that are gender integrated and that make use of curricula that directly teach about, and challenge, gender bias and inequality.<sup>17</sup>

## References

1. Blakemore JEO, Berenbaum, SA, Liben LS. *Gender development*. New York: Taylor & Francis ; 2009
2. Leaper C, Bigler RS. Gender. In Underwood MK, Rosen LH, eds. *Social development: Relationships in infancy, childhood, and adolescence*. New York: Guilford Press; 2011
3. Liben LS, Bigler RS. The developmental course of gender differentiation: Conceptualizing, measuring, and evaluating constructs and pathways. *Monographs of the Society for Research in Child Development*. 2002;67(2):vii-147.
4. Klein S. *Handbook for achieving sex equity through education*. Baltimore, MD: The Johns Hopkins University Press; 1985.
5. Igle-Crumb C, Humphries M. Exploring bias in math teachers' perceptions of students' ability by gender and race/ethnicity. *Gender & Society*. 2012;26(2):290-322. doi:<http://dx.doi.org/10.1177/0891243211434614>.
6. Beilock SL, Gunderson EA, Ramirez G, Levine SC. Female teachers' math anxiety affects girls' math achievement. *Proceedings of the National Academy of Sciences of the United States of America*. 2010;107(5):1860-1863. doi:<http://dx.doi.org/10.1073/pnas.0910967107>.
7. Thorne B. *Gender play: Girls and boys in school*. New Jersey: Rutgers University Press; 1993.
8. Bigler RS, Liben LS. *A developmental intergroup theory of social stereotypes and prejudice*. San Diego, CA: Elsevier Academic Press; 2006:39-89.
9. Bigler RS. The role of classification skill in moderating environmental influences on children's gender stereotyping: A study of the functional use of gender in the classroom. *Child Development*. 1995;66:1072-1087.
10. Hilliard LJ, Liben LS. Differing levels of gender salience in preschool classrooms: Effects on children's gender attitudes and intergroup bias. *Child Development*. 2010;81(6):1787-1798.

11. Martin CL, Fabes RA. The stability and consequences of same-sex peer interactions. *Developmental Psychology*. 2001;37(3):431-446.
12. Goble P, Martin CL, Hanish LD, Fabes RA. Children's gender-typed activity choices across preschool social contexts. *Sex Roles*. 2012;67(7-8):435-451. doi: <http://dx.doi.org/10.1007/s11199-012-0176-9>.
13. Lamb LM, Bigler RS, Liben LS, Green VA. Teaching children to confront peers' sexist remarks: Implications for theories of gender development and educational practice. *Sex Roles*. 2009;61:361-382.
14. Stromquist NP. The gender socialization process in schools: A cross-national comparison. Paper commissioned for the EFA Global Monitoring Report 2008, Education for All by 2015: Will We Make It? New York: UNESCO; 2007.
15. Halpern D, Eliot L, Bigler RS, Fabes RA, Hanish LD, Hyde J, Liben LS, Martin CL. The pseudoscience of single-sex schooling. *Science*. 2011;333(6050):1706-1707.
16. Bryan J. *From the dress-up corner to the senior prom: Navigating gender and sexuality diversity in preK-12 schools*. Lanham, MD: Rowman & Littlefield Education; 2012.
17. Moss P. Not true! Gender doesn't limit you! *Teaching Tolerance Magazine*. 2007;32. Available at: <http://www.tolerance.org/print/magazine/number-32-fall-2007/feature/not-...>