Boys Will Be Boys
Biff Maier

“The fact is male lives are falling apart at the growing margins of male welfare, and the utter failure of the education system to address male needs on male terms is indeed a crisis.” (Thomas Mortenson, senior scholar at the Pell Institute for the Study of Opportunity in Higher Education.)

Boy Trouble

- 4 ½ times more likely than girls to be expelled from preschool.
- 8 times more likely than girls to be disciplined problems; 8 times more frequently diagnosed with learning disabilities; 7 times more frequently diagnosed with behavioral disorders.
- 4 times more likely to suffer from autism, ADHD or dyslexia.
- 1 ½ times more likely to die in accidents than are girls; twice as likely to die from violent crime.
- 89% of gifted and talented underachievers are boys.
- Boy-girl gap in reading: 5 points in 4th grade, 10 points in 8th grade, and 14 points in 12th grade (NAEP)
- Boy-girl gap in writing: 17-point gap in 4th grade; 21-point gap in 8th grade; 24-point gap in 12th grade.
- Honor roll and top class rankings dominated by girls; school suspensions dominated by boys.
- College age: 51.4% boys; enrolled undergraduates 57% girls.
- Graduate schools: 58% women: 49% of med students; 79% of veterinary medicine students; 49% of law students.

“There are 60 significant studies that show differences – in the actual brain areas, the wiring and the timing of development. We don’t really know what the impact is yet.”

Steven Pinker Harvard psychologist

<table>
<thead>
<tr>
<th>Physiological difference</th>
<th>Function</th>
<th>Possible impact</th>
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<tbody>
<tr>
<td>More blood flow in the cerebellum</td>
<td>Controls doing, physical action</td>
<td>Makes it hard to learn when still</td>
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<tr>
<td>Smaller corpus callosum</td>
<td>Connecting bundle between the hemispheres</td>
<td>Less skilled at multitasking</td>
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<td>Weaker neural connectors in the temporal lobes</td>
<td>Memory of sensory details</td>
<td>Decrease the ability to listen, especially to a tone of voice</td>
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<tr>
<td>Hippocampus</td>
<td></td>
<td>Slower memorization; makes for preference for lists and hierarchies</td>
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<tr>
<td>Frontal lobes develop later</td>
<td></td>
<td>Less control over impulsivity.</td>
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<tr>
<td>Later development of Broca’s and Wemicke’s areas</td>
<td>Language centers</td>
<td>Slower, language development</td>
</tr>
<tr>
<td>Less estrogen and oxytocin</td>
<td>Control relatedness</td>
<td>Less connection</td>
</tr>
<tr>
<td>More testosterone</td>
<td>Controls aggression</td>
<td>More aggression</td>
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<tr>
<td>More vasopressin</td>
<td>Controls territoriality</td>
<td>More aggression</td>
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<tr>
<td>More compartmentalized</td>
<td>Less multitasking</td>
<td>Stress; flight or fight</td>
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<tr>
<td>Brain enters “rest state”</td>
<td></td>
<td>Spacey, inattentive</td>
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<tr>
<td>More dopamine</td>
<td></td>
<td>Increased risk behavior</td>
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- Michael Gurian, The Minds of Boys
5 factors driving growing apathy of boys
Leonard Sax, Boys Adrift

1. Changes that have occurred at school

   “Live a balanced life — learn some and think some and draw and paint and sing and dance and play and work every day some.”
   - Robert Fulghum, All I Really Need to Know I Learned in Kindergarten

   Kindergarten has become the new first grade. “The world has become more verbal, and boys have not, so boys end up lacking the literacy skills to compete in the information age.”
   - Richard Whitmire, Why Boys Fail: Saving Our Sons from an Education System That’s Leaving Them Behind

   “…many children are facing unreal demands on their attention spans, memory, fine motor skills and verbal skills, which can set them up for behavioral problems and school failure.” - Lisa Eliot, Pink Brain, Blue Brain

   “There is an entire subset of boys who are not ready for circle time, for rigid transitions, for following complex directions or listening to a lot of talk until well past their sixth birthdays.” - Anthony Rao, The Way of Boys

   “Relatively low literacy achievement in first grade predicted relatively high aggressive behavior in third grade. – Stanford study

2. Video games

   “Every investigator who has correlated the amount of time that a child or adolescent or young adult spends playing video games with that student’s academic performance has found a negative correlation.” - Sax

   “The strength of the evidence linking video games to antisocial behavior is every bit as strong as the evidence linking second-hand smoke to lung cancer, or lead paint poisoning in infancy to lower IQ scores.” - Sax

3. ADHD medications

   “Many clinicians find it easier to tell parents that their son has a brain-based disorder than to suggest parenting changes.”
   - Jennifer Harris, psychiatrist

   “I’ve come to believe that we should not medicate boys so that they fit the school; we should change the school to fit the boy.” - Sax

4. Endocrine disruptors

   Phthalates mimic the action of the female hormone estrogen, and according to research done at Oxford and at Harvard, disrupt the memory and motivation functions of male neonates. Italian researchers have found the male animals suffer damage to the nucleus accumbens, the site of motivation.

5. The revenge of the forsaken gods

   “…Teenage boys are seldom competent to guide one another to manhood. That’s what men are for.” - Sax

   Male teachers: Preschool – 5%;
   Elementary - 9%

   No father at home: >25%
“Gender differences begin as tiny seeds, planted by evolution and nourished by hormones but blossoming only under the hot sun of our highly gendered society.”

-Lisa Eliot, Pink Brain, Blue Brain

“Most psychological differences are quite small, and men and women are more similar than different. ‘Men Are from North Dakota; Women Are from South Dakota.’”

- Janet Hyde, psychologist, University of Wisconsin

Males: the delicate sex!

- 170 boys conceived for every 100 girls
- 105 boys born for every 100 girls
- Infant mortality rate is 22% higher for boys

Language delay

- Boys’ hearing more lateralized
- Boy play emphasizes visuospatial sense, gross motor and movement
- Girls’ socializing highly reinforcing to parents

“Regardless of what parents profess to wish for them, our culture still values boys’ strength and girls’ appearance more than the other way around.”

-Lisa Eliot, Pink Brain, Blue Brain

By the time they are four, though, most children enter an inflexible stage when they see gender choices as a matter of right and wrong.

Rough-and-tumble play

- bonding through intense physical contact
- promotes physical strength
- helps boys’ vent high energy
- teaches important social skills: negotiation, turn-taking, coalition-building, and how to compete fairly and graciously

Inhibition & frontal lobes

- Girls’ advantage in inhibitory control is about the largest sex difference of any temperamental trait among children between three and thirteen years old

Relationships and limbic system

- "female" limbic system: emotionally perceptive and expressive. Using both sides of the brain symmetrically, females read faces better and faster
- boys respond more intensely to emotional stimuli, but they learn not to show it.
**Making classrooms more “boy friendly”**

<table>
<thead>
<tr>
<th>Use movement</th>
<th>Help them manage themselves</th>
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<tr>
<td>• Move when you teach</td>
<td>• Seats that require balance</td>
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<tr>
<td>• Use visual cues, motions</td>
<td>• Fidget toys, gum</td>
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<td>• Use role-play</td>
<td>• Talking stick</td>
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<td>• Shift tasks</td>
<td>• Storage systems</td>
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<td></td>
<td>• Frequent breaks</td>
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<tr>
<th>Use iconic visuals</th>
<th>Use gore &amp; sports metaphors</th>
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<tr>
<td>• Direct statements</td>
<td>• Don’t yell – boys will tune out</td>
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<td>• Pronounce clearly</td>
<td>• Enforce “inside voice” rule</td>
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<td>• Face boys</td>
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<td>• Use symbols</td>
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<td>• Use cartoons</td>
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<td>• Insist on turn taking</td>
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<td>• Provide wait time</td>
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<td>• Teach note-taking</td>
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<td>• Use multiple modes</td>
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<tr>
<th>Design for big movements</th>
<th>Allow rough-and-tumble play</th>
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<tr>
<td>• Design to move</td>
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<td>• Moderate expectations</td>
<td></td>
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<td>• Standing room</td>
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<tr>
<td>• 20-minute rule</td>
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<td>• Get outside</td>
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<td>• Allow “targeting”</td>
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<td>• Play games</td>
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<tr>
<td>• Encourage building</td>
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<thead>
<tr>
<th>Managing boys’ physicality</th>
<th>Teach handwriting</th>
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<tr>
<td>Design for big movements</td>
<td>• Use “big writing”</td>
</tr>
<tr>
<td>Allow rough-and-tumble play</td>
<td>• Provide big whiteboard for calculations</td>
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<td></td>
<td>• Assess handwriting</td>
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<td></td>
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<tr>
<td>Use manipulatives</td>
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<tr>
<th>Managing boys’ aggression</th>
<th>Use competition</th>
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<tr>
<td>Consistent rules</td>
<td>• How to win &amp; lose.</td>
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<tr>
<td>• Few, short, clear</td>
<td>• Don’t accomplish much unless you really try.</td>
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<tr>
<td>• Matter-of-fact correction</td>
<td>• Divisiveness guarantees poor results.</td>
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<td></td>
<td>• Trust and be trustworthy.</td>
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<tr>
<td>Teach how to make an argument</td>
<td>• Cooperative competition</td>
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<tr>
<td>• “Fight or flight”</td>
<td>• Rotate leaders</td>
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<tr>
<td>• Prevent defensiveness by avoiding characterizations</td>
<td>• Charts of personal best</td>
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<tr>
<td>• describe the behavior</td>
<td>• Bees – variety for different strengths</td>
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<tr>
<td>• avoid public embarrassment</td>
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<tr>
<td>• Instead of name-calling; no slurs</td>
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<tr>
<td>• Use peer counselors</td>
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<tr>
<th>Building boys’ emotional literacy</th>
<th>Managing disorganization</th>
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<tr>
<td>Be direct, not subtle</td>
<td>Redundant reminders</td>
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<tr>
<td>Develop signals</td>
<td>Assignment books</td>
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<tr>
<td>Use American Sign Language</td>
<td>Whiteboard</td>
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<tr>
<td>Teach facial cues and body language</td>
<td>Interim assignments</td>
</tr>
<tr>
<td>Teach emotional vocabulary</td>
<td>Underlining, highlighting</td>
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<tr>
<td>Correct with neutral expression</td>
<td>Back up multi-step directions</td>
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<tr>
<td>Know about boy’s life outside of school</td>
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*Boys Will Be Boys*... AMS Conference, Chicago 2011...W Maier... wmaier@lexmontessori.org
### Help with episodic memory
- Summarize a narrative they heard
- Read-pause-summarize
- Memorize poems, excerpts, speeches
- Teach how to take iconic notes
- Insert questions into the lesson

### Help with reading
- Summarize a narrative they heard
- Read-pause-summarize
- Memorize poems, excerpts, speeches
- Teach how to take iconic notes
- Insert questions into the lesson

### Managing dysgraphia
- Soft grips; large diameter
- Hand-strengthening
- Practice letter shapes
- Use word processor
- Teach organization
- Allow oral reports
- Use a scribe
- Use wide-ruled paper
- Teach caution in reading math problems
- Space! Don’t crowd math problems

### Help with writing
- Summarize a narrative they heard
- Read-pause-summarize
- Memorize poems, excerpts, speeches
- Teach how to take iconic notes
- Insert questions into the lesson

### Eight Strategies That Work
(from *Reaching Boys, Teaching Boys*, Reichert and Hawley)

1) Creating a product that demonstrates the concept under study.

2) Imbedding the learning outcomes in the structure of a game.

3) Lessons that require students to get up, get out, and move.

4) Lessons that require students to assume a role, declare or defend a position, or speak persuasively.

5) Open inquiry to explore the relationship between actual experience and the theory to describe it.

6) Forming teams to complete a task to be judged competitively.

7) Lessons that address something deep and personal in boys’ lives.

8) Novelty, drama, surprise
Boys Will Be Boys

Bibliography


Buckingham, Jennifer. *The inquiry into educating boys: getting it right some of the time* ON LINE opinion, November 2003

CAREY, BENEDICT. *Evidence That Little Touches Do Mean So Much* NY Times, MIND, February 23, 2010

Center on Education Policy. *Are There Differences in Achievement Between Boys and Girls?* Washington, D.C. March 2010

Cortis, Natasha and Eileen Newmarch. *Boys in Schools: What’s Happening?* from “Manning the Next Millennium” An International Interdisciplinary Masculinities Conference hosted by the School of Humanities and Social Science, Queensland University of Technology. December 2000

DiGiuseppi, Carolyn. *Boys Will Be Boys*, Petaluma, CA Patch December 2010

Education Week: *Boys Trail Girls in Reading: Can Fart Jokes Help?* Associated Press, 7/20/10

Eliot, Lise. *The Myth of Pink and Blue Brains* Educational Leadership, November 2010 | Volume 68 | Number 3


Garibaldi, Gerry. *How the Schools Shortchange Boys: In the newly feminized classroom, boys tune out.* City Journal Summer 2006

Gurian, Michael and Kathy Stevens. *Ten Essential Strategies for Teaching Boys Effectively*, Ed Leadership, 1/10/11


Kenney, Brian. Editorial: *Is There Really a (Boy) Problem? Boys are reading—but often not the stuff that’s found in schools*. School Library Journal, 9/1/2007

King, Kelley, Michael Gurian and Kathy Stevens. *Gender-Friendly Schools: Closing Opportunity Gaps* Educational Leadership, November 2010

King, Margaret with Dan Gartrell. *Guidance with Boys In Early Childhood Classrooms*, April 2010 http://www.hcs.ohiou.edu:16080/boys/BOY%20GUIDANCE%20PAPER%20for%20WEB%20PAGE.htm (From The Power of Guidance: Teaching Social-Emotional Skills in Early Childhood Classrooms, Delmar)


“Boys Will Be Boys”... AMS Conference, Chicago 2011...W Maier...wmaier@lexmontessori.org
Meeker, Meg, M.D. *Boys Should Be Boys: 7 Secrets to Raising Healthy Sons*, Ballantine Books, New York 2009


*Newsweek*. *Struggling School-Age Boys, A new study says parents are right to worry about their sons*, 9/08/2008

Nixon, Robin. *Boys Need Close Relationship with Mom*, LiveScience March 2010  
http://www.livescience.com/culture/boys-mom-100325.html


Parry, Wynne Battling the Boys: Educators Grapple with Violent Play, LiveScience, August 2010  
http://www.livescience.com/culture/boys-need-aggressive-make-believe-play-100829.html

Pytel, Barbara. *Boys and School*, Print Suite101.com 12/6/08  
http://educationalissues.suite101.com/print_article.cfm/boys_and_school


Rowe, Kenneth J. PhD, and Katherine S. Rowe MD *Inquiry Into The Education Of Boys*, for the Australian House of Representatives Standing Committee on Employment, Education and Workplace Relations 2000


http://article.nationalreview.com/print/?q=M2YyODgwMzEzODRkOTQwNDBiOTVkJZGQyNjMzZDA


Schneider, David. *Smart as We Can Get?* American Scientist, July-August 2006

Sommers, Christina Hoff. *The War Against Boys*. Clare Boothe Luce Policy Institute, January 1999  
http://www.cblpi.org/resources/speech.cfm?ID=15


Tyre, Peg. *The Trouble With Boys: They're kinetic, maddening and failing at school. Now educators are trying new ways to help them succeed*, Newsweek, 1/30/11

Tyre, Peg. *Boy Trouble? In classrooms from PreK to college, boys are falling behind. What can teachers do?* Scholarastic Administrator, 12/08

Tyre, Peg. *Struggling School-Age Boys: A new study says parents are right to worry about their sons*. NEWSWEEK WEB EXCLUSIVE Sep 8, 2008

West, Peter. *Inquiry Into The Education Of Boys*, Research Group On Men And Families, University Of Western Sydney, 2002