Distribution of ACT composite scores for our sample

- Mean = 21.38
- Std. Dev. = 4.651
- N = 3,203
## Average ACT composite and subscale scores by BST status

<table>
<thead>
<tr>
<th></th>
<th>All BST Takers</th>
<th>Did Not Pass BST</th>
<th>Passed BST</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACT Composite</strong></td>
<td>21.38</td>
<td>19.52</td>
<td>25.73</td>
</tr>
<tr>
<td><strong>ACT English</strong></td>
<td>21.45</td>
<td>19.34</td>
<td>26.41</td>
</tr>
<tr>
<td><strong>ACT Math</strong></td>
<td>20.95</td>
<td>19.18</td>
<td>25.11</td>
</tr>
<tr>
<td><strong>ACT Reading</strong></td>
<td>21.65</td>
<td>19.56</td>
<td>26.54</td>
</tr>
<tr>
<td><strong>ACT Writing</strong></td>
<td>22.64</td>
<td>21.06</td>
<td>26.75</td>
</tr>
<tr>
<td><strong>N (%)</strong></td>
<td>3203 (100%)</td>
<td>2244 (70%)</td>
<td>959 (30%)</td>
</tr>
</tbody>
</table>
Comparison of ACT composite score averages for selected groups

- Lowest quartile teachers
- Fail BST
- CPS teachers (2006)
- Bottom third college-goers
- ACT College Ready
- All BST takers
- Highest quartile teachers
- Pass BST
- Top third college-goers
Distribution of BST results by ACT composite score
Proportion passing BST by ACT composite score
Proportion passing BST subtests by overall college readiness status (college ready ACT composite $\geq 21$)
Average number of BST subtests passed by college readiness status

![Bar chart showing the average number of BST subtests passed by college readiness status. The chart compares Not College Ready (1.3) and College Ready (3.1).]
ACT Composite by Number of BST Subtests Passed

College Ready
Failed BST 27%

Not College Ready
Failed BST 43%

College Ready
Passed BST 28%

Not College Ready
Passed BST 2%
ACT Reading by BST Reading

- College Ready
  - Failed BST: 18%
  - Passed BST: 37%

- Not College Ready
  - Failed BST: 37%
  - Passed BST: 7%
ACT English by BST Language Arts

- **College Ready**
  - Failed BST: 37%
  - Passed BST: 38%

- **Not College Ready**
  - Failed BST: 24%
  - Passed BST: 1%
ACT Math by BST Math

- **College Ready**
  - Passed BST: 37%
  - Failed BST: 6%

- **Not College Ready**
  - Passed BST: 13%
  - Failed BST: 44%
### ACT score x BST score correlation matrix

<table>
<thead>
<tr>
<th></th>
<th>BST reading</th>
<th>BST language arts</th>
<th>BST math</th>
<th>BST writing</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT Composite</td>
<td>.675**</td>
<td>.705**</td>
<td>.738**</td>
<td>.481**</td>
</tr>
<tr>
<td>ACT English</td>
<td>.648**</td>
<td>.702**</td>
<td>.645**</td>
<td>.487**</td>
</tr>
<tr>
<td>ACT Math</td>
<td>.538**</td>
<td>.574**</td>
<td>.770**</td>
<td>.389**</td>
</tr>
<tr>
<td>ACT Reading</td>
<td>.649**</td>
<td>.646**</td>
<td>.573**</td>
<td>.442**</td>
</tr>
<tr>
<td>ACT Writing</td>
<td>.655**</td>
<td>.692**</td>
<td>.589**</td>
<td>.469**</td>
</tr>
</tbody>
</table>

**Correlation is significant at the 0.01 level (1-tailed).**

---

**Interpreting Correlations:**

<table>
<thead>
<tr>
<th>Correlation Coefficient</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0-0.1</td>
<td>trivial, very small, insubstantial, tiny, practically zero</td>
</tr>
<tr>
<td>0.1-0.3</td>
<td>small, low, minor</td>
</tr>
<tr>
<td>0.3-0.5</td>
<td>moderate, medium</td>
</tr>
<tr>
<td>0.5-0.7</td>
<td>large, high, major</td>
</tr>
<tr>
<td>0.7-0.9</td>
<td>very large, very high, huge</td>
</tr>
<tr>
<td>0.9-1</td>
<td>nearly, practically, or almost: perfect, distinct, infinite</td>
</tr>
</tbody>
</table>
Do BST scores improve on subsequent attempts?

**Language Arts**

Average Change = +9.7

% improving = 53.3%

% passing on 2nd attempt = 24.7%

**Math**

Average Change = +21.5

% improving = 70.1%

% passing on 2nd attempt = 36.2%
Do BST scores improve on subsequent attempts?

**Reading**
- Average Change = +14.9
- % improving = 63.0%
- % passing on 2\textsuperscript{nd} attempt = 27.4%

**Writing**
- Average Change = +28.3
- % improving = 68.6%
- % passing on 2\textsuperscript{nd} attempt = 82.9%
BST results for those scoring high on one ACT subtest (> 0.5 SD) and low on another (< -0.5 SD)

<table>
<thead>
<tr>
<th>High ACT Math &amp; Low ACT English</th>
<th>Subtest Pass Rate</th>
<th>BST Pass Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>n = 31 &lt;1% of Total</td>
<td>Math 81% Language Arts 6%</td>
<td>Overall 6%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High ACT English &amp; Low ACT Math</th>
<th>Subtest Pass Rate</th>
<th>BST Pass Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>n = 50 1.6% of Total</td>
<td>Math 24% Language Arts 57%</td>
<td>Overall 18%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High ACT Math &amp; Low ACT Reading</th>
<th>Subtest Pass Rate</th>
<th>BST Pass Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>n = 63 2.0% of Total</td>
<td>Math 83% Reading 22%</td>
<td>Overall 14%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High ACT Reading &amp; Low ACT Math</th>
<th>Subtest Pass Rate</th>
<th>BST Pass Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>n = 88 2.8% of Total</td>
<td>Math 35% Reading 56%</td>
<td>Overall 19%</td>
</tr>
</tbody>
</table>
Summary of BST results by subtest

- Passed None: 6.7%
- Passed Just One Subset: 30.5%
- Passed Two Subtests: 19.5%
- Passed All Subtests except one: 15.9%
- Passed All: 27.3%
Passed All Subtests except one 15.9%

- Passed All 27.3%
- Passed Just One Subset 30.5%
- Passed Two Subtests 19.5%
- Passed None 6.7%
- All but Language Arts 6.7%
- All but Reading 5.0%
- All but Math 4.0%
- All but Writing 0.3%
Passed Two Subtests 19.5%

- Passed All 27.3%
- Passed All Subtests except one 15.9%
- Passed Just One Subset 30.5%
- Passed None 6.7%

- Language Arts + Math <0.1%
- Reading + Language Arts 0.3%
- Reading + Math 0.3%
- Language Arts + Writing 2.7%
- Reading + Writing 5.7%
- Math + Writing 10.5%
Passed Just One Subset 30.5%

- Just Writing: 29.4%
- Just Math: 0.5%
- Just Reading: 0.3%
- Just Language Arts: 0.2%
- Passed All: 27.3%
- Passed Two Subtests: 19.5%
- Passed All Subtests except one: 15.9%
- Passed None: 6.7%