Mathematics Coaching and its Impact on Student Achievement

Patti Brosnan, Jenny Harrison, and Ryan Harrison
Mathematics Proficiency: 2005-06

<table>
<thead>
<tr>
<th>Grade</th>
<th>Non-MCP</th>
<th>MCP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gr3</td>
<td>n=66</td>
<td></td>
</tr>
<tr>
<td>Gr4</td>
<td>n=66</td>
<td></td>
</tr>
<tr>
<td>Gr5</td>
<td>n=66</td>
<td></td>
</tr>
<tr>
<td>Gr6</td>
<td>n=51</td>
<td></td>
</tr>
</tbody>
</table>

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2006-07

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2007-08
Elementary Grades

- **Grade 3**
  - Non-MCP: 56%
  - MCP: 64%
- **Grade 4**
  - Non-MCP: 52%
  - MCP: 62%
- **Grade 5**
  - Non-MCP: 35%
  - MCP: 45%

Non-MCP:
- Gr3: n=191
- Gr4: n=187
- Gr5: n=180

MCP:
- Gr3: n=49
- Gr4: n=57
- Gr5: n=50
Mathematics Proficiency: 2007-08
Middle Grades

- **Grade 6**
  - Non-MCP: 44
  - MCP: 60
- **Grade 7**
  - Non-MCP: 31
  - MCP: 44
- **Grade 8**
  - Non-MCP: 40
  - MCP: 52

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2008-09
Elementary Grades

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2008-09
Middle Grades

Non-MCP
Gr6  n=296
Gr7  n=240
Gr8  n=228

MCP
Gr3  n=28
Gr4  n=21
Gr5  n=20

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2005-06
Economic Status

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Mathematics Proficiency: 2006-07
Economic Status

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Mathematics Coaching Program
Mathematics Proficiency: 2007-08
Economic Status

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2008-09
Economic Status

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2005-06
Disability Status

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2007-08
Disability Status

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2008-09
Disability Status

<table>
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<tr>
<th>Grade</th>
<th>Disabled, Non-MCP</th>
<th>Disabled, MCP</th>
<th>NonDisabled, Non-MCP</th>
<th>NonDisabled, MCP</th>
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<td>3</td>
<td>39</td>
<td>45</td>
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<td>37</td>
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<td>20</td>
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<td>6</td>
<td>22</td>
<td>25</td>
<td>50</td>
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</tbody>
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Mathematics Proficiency: 2005-06
Ethnicity

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2006-07
Ethnicity

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2007-08

Ethnicity

Percentage at or above proficient

Grade 3
Grade 4
Grade 5
Grade 6

- White, MCP
- White, Non-MCP
- Hispanic, MCP
- Hispanic, Non-MCP
- Black, MCP
- Black, Non-MCP

NEWARK
The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2008-09
Ethnicity

<table>
<thead>
<tr>
<th>Grade</th>
<th>Black, Non-MCP</th>
<th>Black, MCP</th>
<th>Hispanic, Non-MCP</th>
<th>Hispanic, MPC</th>
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<tbody>
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<td>57</td>
<td>61</td>
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Mathematics Proficiency: 2005-06
Rural and Urban Districts

<table>
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<th>Grade</th>
<th>Non-MCP</th>
<th>MCP</th>
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<td>Gr4</td>
<td>44</td>
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<tr>
<td>Gr5</td>
<td>41</td>
<td>n=0</td>
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<tr>
<td>Gr6</td>
<td>31</td>
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<table>
<thead>
<tr>
<th>Grade</th>
<th>Rural</th>
<th>Urban</th>
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<tbody>
<tr>
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<td>58</td>
</tr>
<tr>
<td>Gr4</td>
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<td>57</td>
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<tr>
<td>Gr6</td>
<td>73</td>
<td>63</td>
</tr>
</tbody>
</table>

The Ohio State University
Mathematics Coaching Program
Mathematics Proficiency: 2006-07
Rural and Urban Districts

Gr3     | n= 14 | 200
Gr4     | n= 14 | 197
Gr5     | n= 12 | 188
Gr6     | n= 8  | 136

Gr3     | n= 6  | 33
Gr4     | n= 6  | 35
Gr5     | n= 6  | 33
Gr6     | n= 5  | 9
Mathematics Proficiency: 2007-08
Rural and Urban Districts

<table>
<thead>
<tr>
<th>Grade</th>
<th>Non-MCP</th>
<th>Rur.</th>
<th>Urb.</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Gr4</td>
<td>n= 2</td>
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<td>Gr5</td>
<td>n= 2</td>
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<td>Gr6</td>
<td>n= 2</td>
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<table>
<thead>
<tr>
<th>Grade</th>
<th>MCP</th>
<th>Rur.</th>
<th>Urb.</th>
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<tbody>
<tr>
<td>Gr3</td>
<td>n= 6</td>
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</tr>
<tr>
<td>Gr4</td>
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<td>Gr5</td>
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Rural Schools

<table>
<thead>
<tr>
<th>Academic Year</th>
<th>Non MCP Gr3</th>
<th>MCP Gr3</th>
<th>Non MCP Gr6</th>
<th>MCP Gr6</th>
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<tbody>
<tr>
<td>2006-07</td>
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<td>63</td>
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<tr>
<td>2007-08</td>
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<td>77</td>
<td>63</td>
<td>72</td>
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<tr>
<td>2008-09</td>
<td>80</td>
<td>79</td>
<td>68</td>
<td>77</td>
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</table>

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