## Appendix VI—Measurement of Student Achievement in MSAP-supported Schools

Table A-VI-1
Distribution of Subject Areas and Other Performance Categories (Percentage of Schools with One or More Objectives in Category, by School Grade Level)

| Subject or Performance Area | Elementary School | Middle <br> School | High <br> School | Mixed Grades | Overall |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Reading, Writing, English Language Arts | 98.3 | 95.7 | 94.9 | 100.0 | 97.2 |
| Mathematics | 97.1 | 94.3 | 92.3 | 83.3 | 95.5 |
| Science | 27.6 | 22.9 | 38.5 | 50.0 | 28.4 |
| Social Studies | 19.0 | 30.0 | 35.9 | 50.0 | 24.6 |
| Foreign Language | 4.0 | 4.3 | 18.0 | 16.7 | 6.2 |
| Theme-Related (goals in content areas or skills related to magnet theme) | 23.6 | 32.9 | 15.4 | 33.3 | 24.9 |
| Advanced Vocational Skills (e.g., certificates of competency) | 4.0 | 7.1 | 48.7 | 50.0 | 11.8 |
| Arts and Performances | 0.0 | 4.3 | 5.1 | 16.7 | 2.1 |
| Applied Learning, Critical Thinking | 14.9 | 7.1 | 7.7 | 16.7 | 12.1 |
| Computer/Technology Use (including multi-media) | 7.5 | 20.0 | 28.2 | 0.0 | 13.2 |
| Career Awareness | 21.3 | 18.6 | 15.4 | 33.3 | 20.1 |
| Attitudes/Work Habits | 9.2 | 8.6 | 10.3 | 0.0 | 9.0 |
| Other (including basic skills, composite scores incorporating multiple subjects) | 28.7 | 24.3 | 46.2 | 50.0 | 30.4 |
| Not subject-specific (e.g., dropouts, graduations) | 16.1 | 25.7 | 41.0 | 33.3 | 22.2 |
| N (Total Schools) | 174 | 70 | 39 | 6 | 289 |

Source: MSAP Applications and 1998-99 Performance Reports

Table VI-A-2
Kinds of Performance Data Collected
(Percentage of Schools with One or More Objectives in Category, by School Grade Level)

|  | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Performance Measure | 97.7 | 95.7 | 100.0 | 100.0 | 97.6 |
| Standardized Test | 17.2 | 27.1 | 35.9 | 33.3 | 22.5 |
| Course-taking and Grades | 71.3 | 61.4 | 87.2 | 83.3 | 71.3 |
| Alternative Assessments | 16.1 | 21.4 | 38.5 | 33.3 | 20.8 |
| Educational Trajectory Benchmarks | 0.0 | 0.0 | 20.5 | 0.0 | 2.8 |
| Advanced Vocation-Related |  |  |  | 0.0 | 1.7 |
| $\quad$ Outcomes | 0.0 | 0.0 | 12.8 |  |  |
| Preparation for Postsecondary |  |  | 12.8 | 0.0 | 4.8 |
| $\quad$ Education | 4.0 | 2.9 | 39 | 6 | 289 |
| Unclassified | 174 | 70 |  |  |  |
| N (Total Schools) |  |  |  |  |  |

Source: MSAP Applications and 1998-99 Performance Reports

Table A-VI-3
Types of Performance Level Attainments in Achievement Objectives (Percentage of Schools with One or More Objectives in Category, by School Grade Level)

|  | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Increasing performance levels over <br> two or three years of the grant | 72.4 | 62.9 | 79.5 | 50.0 | 70.6 |
| Move students' performance level <br> toward that of a reference group <br> Meet a specified level of performance <br> that does not increase over the | 28.2 | 38.6 | 30.8 | 33.3 | 31.1 |
| three years | 57.5 | 57.1 | 71.8 | 83.3 | 59.9 |
| Show gains similar to those of a <br> reference group | 31.6 | 34.3 | 25.6 | 33.3 | 31.5 |
| Other (i.e., show expected annual <br> growth in a Fall-Spring test, <br> improve relative to a reference <br> group, etc.) | 10.9 | 5.7 | 10.3 | 0.0 | 9.3 |
| Unclassifiable or missing <br> N (Total Schools) | 16.1 | 25.7 | 18.0 | 50.0 | 6 |

Source: MSAP Applications and 1998-99 Performance Reports

Table A-VI-4
Time Frame for Measuring Achievement Outcomes
(Percentage of Schools with One or More Objectives in Category, by School Grade Level)

| When Outcome is Assessed | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Once (Year 1 or Year 2) | 0.6 | 0.0 | 7.7 | 0.0 | 1.4 |
| Each Year of Grant | 87.9 | 92.9 | 97.4 | 83.3 | 90.3 |
| Year 3 of Grant | 32.2 | 31.4 | 41.0 | 50.0 | 33.6 |
| Unclear or Unstated | 4.6 | 0.0 | 5.1 | 0.0 | 3.5 |
| N (Total Schools) | 174 | 70 | 39 | 6 | 289 |

Source: MSAP Applications and 1998-99 Performance Reports

Table A-VI-5
Objectives to Reduce Minority-Non-minority or Male-Female Achievement Disparities (Percentage of Schools with One or More Objectives in Category, by School Grade Level)

| Goal is to Reduce Achievement Gap | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Minority/Non-Minority | 50.6 | 61.4 | 41.0 | 50.0 | 51.9 |
| Male/Female | 1.2 | 5.7 | 2.6 | 0.0 | 2.4 |
| N (Total Schools) | 174 | 70 | 39 | 6 | 289 |

Source: MSAP Applications and 1998-99 Performance Reports

Table A-VI-6
Baseline Groups for Measuring Progress
(Percentage of Schools with One or More Objectives in Category, by School Grade Level)

|  | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Baseline Comparison | 68.4 | 78.6 | 87.2 | 83. | 73.7 |
| Prior Cohort in Same Grade | 19.0 | 15.7 | 5.1 | 0.0 | 15.9 |
| Individual Gains (Same Cohort) | 12.1 | 0.0 | 5.1 | 0.0 | 8.0 |
| Other | 70.7 | 74.3 | 82.0 | 83.3 | 73.4 |
| None | 174 | 70 | 39 | 6 | 289 |
| N (Total Schools) |  |  |  |  |  |

Source: MSAP Applications and 1998-99 Performance Reports

Table A-VI-7
Reference Groups against which Magnet Student Performance Is Compared (Percentage of Schools with One or More Objectives in Category, by School Grade Level)

|  | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Reference Group | 25.9 | 31.4 | 18.0 | 33.3 | 26.3 |
| Within-District Match | 19.5 | 18.6 | 18.0 | 0.0 | 18.7 |
| District Average | 2.3 | 0.0 | 0.0 | 0.0 | 1.4 |
| Within-State Match | 3.4 | 1.4 | 0.0 | 0.0 | 2.4 |
| State Average | 0.0 | 4.3 | 2.6 | 0.0 | 1.4 |
| Other (e.g., new vs. continuing students |  |  |  |  |  |
| $\quad$ in the same school) | 92.0 | 91.4 | 100.0 | 100.0 | 93.1 |
| None | 174 | 70 | 39 | 6 | 289 |
| N (Total Schools) |  |  |  |  |  |

Source: MSAP Applications and 1998-99 Performance Reports

Table A-VI-8
Distribution of Subject Areas and Other Performance Categories (Average Percentage of School Objectives in Category, by School Grade Level)

| Subject or Performance Area | Elementary School | Middle School | High School | Mixed Grades | Overall |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Reading, Writing, English Language Arts | 44.2 | 41.8 | 31.1 | 34.4 | 41.7 |
| Mathematics | 28.5 | 27.0 | 22.2 | 15.8 | 27.0 |
| Science | 4.1 | 3.5 | 6.4 | 6.4 | 4.3 |
| Social Studies | 2.2 | 3.5 | 4.6 | 5.0 | 2.9 |
| Foreign Language | 0.5 | 0.2 | 2.2 | 0.7 | 0.6 |
| Theme-Related (goals in content areas or skills related to magnet theme) | 2.6 | 6.4 | 0.8 | 1.8 | 3.2 |
| Advanced Vocational Skills (e.g., certificates of competency) | 0.6 | 0.7 | 8.5 | 7.3 | 1.8 |
| Arts and Performances | 0.0 | 0.3 | 0.7 | 1.3 | 0.2 |
| Applied Learning, Critical Thinking | 1.5 | 0.5 | 0.7 | 0.7 | 1.1 |
| Computer/Technology Use (including multi-media) | 1.0 | 4.0 | 3.8 | 0.0 | 2.1 |
| Career Awareness | 4.3 | 3.4 | 2.1 | 6.7 | 3.8 |
| Attitudes/Work Habits | 1.2 | 1.5 | 1.5 | 0.0 | 1.3 |
| Other (including basic skills, composite scores incorporating multiple subjects) | 5.8 | 4.7 | 9.0 | 16.2 | 6.2 |
| Not subject-specific (e.g., dropouts, graduations) | 1.7 | 2.7 | 6.5 | 3.7 | 2.6 |
| N (Total Schools) | 174 | 70 | 39 | 6 | 289 |

Source: MSAP Applications and 1998-99 Performance Reports

Table A-VI-9
Kinds of Performance Data Collected
(Average Percentage of School Objectives in Category, by School Grade Level)

|  | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | ---: |
| Performance Measure | 73.3 | 78.9 | 60.7 | 65.8 | 72.8 |
| Standardized Test | 5.6 | 4.9 | 13.4 | 14.7 | 6.7 |
| Course-taking and Grades | 16.2 | 13.1 | 15.3 | 15.8 | 15.3 |
| Alternative Assessments | 1.8 | 2.4 | 4.7 | 3.7 | 2.4 |
| Educational Trajectory Benchmarks | 0.0 | 0.0 | 3.0 | 0.0 | 0.4 |
| Advanced Vocation-Related Outcomes | 0.0 | 0.0 | 1.6 | 0.0 | 0.2 |
| Preparation for Postsecondary |  |  |  |  |  |
| $\quad$ Education | 1.4 | 0.7 | 1.3 | 0.0 | 1.2 |
| Unclassified | 174 | 70 | 39 | 6 | 289 |
| N (Total Schools) |  |  |  |  |  |

[^0]Table A-VI-10
Nature of Change Called for by Objectives
(Average Percentage of School Objectives in Category, by School Grade Level)

|  | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Increasing performance levels over <br> two or three years of the grant | 48.9 | 43.7 | 59.4 | 36.7 | 48.8 |
| Move students' performance level <br> toward that of a reference group <br> Meet a specified level of | 12.9 | 15.6 | 12.7 | 18.4 | 13.6 |
| performance that does not <br> increase over the three years | 16.3 | 17.8 | 17.3 | 31.2 | 17.1 |
| Show gains similar to those of a <br> reference group | 13.3 | 16.8 | 5.1 | 9.5 | 13.0 |
| Other (i.e., show expected annual <br> growth in a Fall-Spring test, <br> improve relative to a reference <br> group, etc.) | 5.2 | 3.3 | 3.1 | 0.0 | 4.4 |
| Unclassifiable or missing <br> N (Total Schools) | 1.6 | 2.7 | 2.5 | 4.3 | 6 |

Source: MSAP Applications and 1998-99 Performance Reports

Table A-VI-11
Time Frame for Measuring Achievement Outcomes
(Average Percentage of School Objectives in Category, by School Grade Level)

|  | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Once (Year 1 or Year 2) | 0.1 | 0.0 | 1.6 | 0.0 | 0.3 |
| Each Year of Grant | 78.0 | 81.6 | 77.4 | 68.6 | 78.6 |
| Year 3 of Grant | 18.9 | 18.1 | 18.3 | 30.7 | 18.8 |
| Unclear or Unstated | 1.2 | 0.0 | 2.3 | 0.0 | 1.0 |
| N (Total Schools) | 174 | 70 | 39 | 6 | 289 |

Source: MSAP Applications and 1998-99 Performance Reports

Table A-VI-12
Objectives for Reducing Minority-Non-minority or Male-Female Achievement Disparities (Average Percentage of School Objectives in Category, by School Grade Level)

|  | Elementary | Middle | High | Mixed |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Goal is to Reduce Achievement Gap | School | School | School | Grades | Overall |
| Minority/Non-Minority | 19.8 | 22.8 | 15.1 | 17.2 | 19.8 |
| Male/Female | 0.3 | 1.2 | 0.5 | 0.0 | 0.5 |
| No Gap Reduction | 78.2 | 76.1 | 84.4 | 82.8 | 78.6 |
| N (Total Schools) | 174 | 70 | 39 | 6 | 289 |

[^1]Table A-VI-13
Baseline Groups for Measuring Progress
(Average Percentage of School Objectives in Category, by School Grade Level)

|  | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Baseline Comparison | 50.9 | 54.9 | 65.1 | 49.8 | 53.8 |
| Prior Cohort in Same Grade | 11.3 | 10.8 | 0.4 | 0.0 | 9.5 |
| Individual Gains (Same Cohort) | 3.3 | 0.0 | 1.0 | 0.0 | 2.2 |
| Other | 32.7 | 34.3 | 33.5 | 50.2 | 33.6 |
| None | 174 | 70 | 39 | 6 | 289 |
| N (Total Schools) |  |  |  |  |  |

Source: MSAP Applications and 1998-99 Performance Reports

Table A-VI-14
Reference Groups Against Which Magnet Student Performance is Compared (Average Percentage of School Objectives in Category, by School Grade Level)

|  | Elementary <br> School | Middle <br> School | High <br> School | Mixed <br> Grades | Overall |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Reference Group | 9.1 | 11.0 | 6.5 | 13.9 | 9.3 |
| Within-District Match | 14.3 | 13.3 | 3.9 | 0.0 | 12.4 |
| District Average | 1.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| Within-State Match | 2.1 | 1.4 | 0.0 | 0.0 | 1.6 |
| State Average | 0.0 | 4.0 | 1.1 | 0.0 | 1.1 |
| Other (e.g., new vs. continuing |  |  |  | 86.1 | 74.0 |
| $\quad$ students in the same school) | 71.8 | 70.2 | 88.5 | 6 | 289 |
| None | 174 | 70 | 39 |  |  |
| N (Total Schools) |  |  |  |  |  |

Source: MSAP Applications and 1998-99 Performance Reports


[^0]:    Source: MSAP Applications and 1998-99 Performance Reports

[^1]:    Source: MSAP Applications and 1998-99 Performance Reports

