

## APPENDIX C

### SCIENCE

#### **Examples of efforts to support Science achievement include:**

*Monitor grade level learning team recommendations for appropriate assessment in Science practices for the K-12 reading staff. District Level Professional Staff Development, GWAEA 10, Data Collection and Analysis.*

#### **Long-Range Goal:**

All K-12 students will achieve at high levels in Science. The District will work to increase the number of students achieving at the proficient level in Science.

#### **Annual Improvement Goal for 2007-2008:**

Increase the percent of all grade level students, over the next school year, classified at the proficient level, as measured by the of the Iowa Test of Basic Skills and the Iowa Growth Model.

#### **Report:**

The district did not achieve the annual improvement goal in all areas. Increases in proficiency were shown in 5<sup>th</sup> and 6<sup>th</sup> grade, 7<sup>th</sup> graders with a 0.8% decline and a 5.5% decrease from our eight grade. Our annual improvement goal predicted we would see a change in the number of proficient students all grade levels. Our students showed tremendous growth in the sixth grade level with a 6.4% increase from the previous year.

**Action Plan to Meet the Goal:** It is the district intent to continue to track data over time and maintain the long range goal established thus reducing the percentage of students in the low achievement level as measured by the Iowa Tests of Basic Skills.

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**District-Wide Student Achievement Results**  
**Science Trend Line Data**  
**Three Achievement/Performance Levels for Grades 4, 8, and 11**  
**2006, 2007, 2008**

**Science 2005-2006**

**Grade 4**

95 Percent Proficient

**Grade 8**

81 Percent Proficient

**Grade 11**

81 Percent Proficient

**Science 2006-2007**

**Grade 4**

87 Percent Proficient

**Grade 5**

91 Percent Proficient

**Grade 6**

90 Percent Proficient

**Grade 7**

88 Percent Proficient

**Grade 8**

89 Percent Proficient

**Grade 11**

75 Percent Proficient

**Science 2007-2008**

**Grade 4**

88 Percent Proficient

**Grade 5**

91.8 Percent Proficient

**Grade 6**

97.4 Percent Proficient

**Grade 7**

89.2 Percent Proficient

**Grade 8**

82.5 Percent Proficient

**Grade 11**

78.6 Percent Proficient

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**Gender Trend Data for Students Proficient in Science  
2006, 2007, 2008**

**2005-2006 Science Data: Disaggregated by Gender**

**Grade 4**

Females Proficient	94
Males Proficient	95

**Grade 8**

Females Proficient	83
Males Proficient	79

**Grade 11**

Females Proficient	85
Males Proficient	77

**2006-2007 Science Data: Disaggregated by Gender**

**Grade 4**

Females Proficient	88
Males Proficient	86

**Grade 8**

Females Proficient	88
Males Proficient	90

**Grade 11**

Females Proficient	81
Males Proficient	70

**2006-2007 Science Data: Disaggregated by Gender**

**Grade 4**

Females Proficient	88.6
Males Proficient	85.7

**Grade 5**

Females Proficient	93.8
Males Proficient	90.7

**Grade 6**

Females Proficient	98.0
Males Proficient	98.3

**Grade 7**

Females Proficient	87.9
Males Proficient	90.5

**Grade 8**

Females Proficient	85.5
Males Proficient	80.3

**Grade 11**

Females Proficient	83.6
Males Proficient	73.2

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**Socioeconomic Data for Students Proficient in Science**  
**2006, 2007, 2008**

**2005-2006 Science Data: Socioeconomic Status**

**Grade 4**

Proficient 86

**Grade 8**

Proficient 63

**Grade 11**

Proficient 65

**2006-2007 Science Data: Socioeconomic Status**

**Grade 4**

Proficient 83

**Grade 8**

Proficient 89

**Grade 11**

Proficient 65

**2007-2008 Science Data: Socioeconomic Status**

**Grade 4**

Proficient 88.2

**Grade 5**

Proficient 92.1

**Grade 6**

Proficient 89.5

**Grade 7**

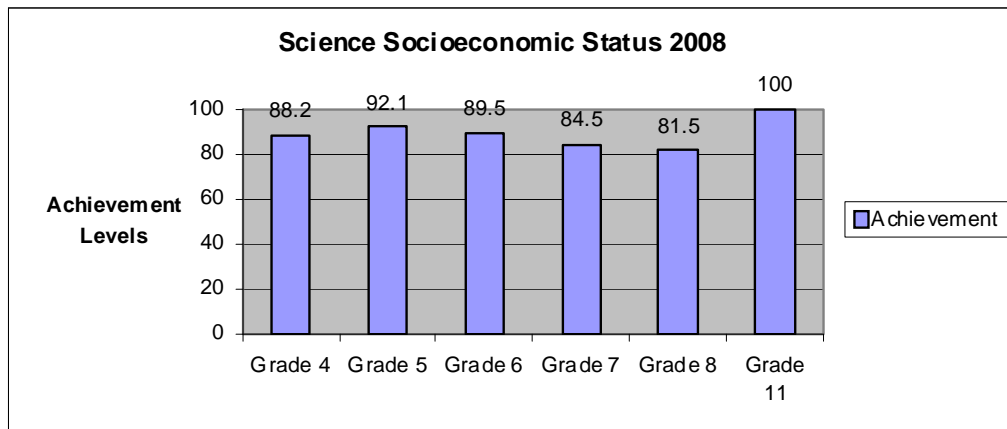
Proficient 84.5

**Grade 8**

Proficient 81.5

**Grade 11**

Proficient 100



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**Science Non-Socioeconomic Data for Students Proficient in Science  
2006, 2007, 2008**

**2005-2006 Science Data: Non-Socioeconomic Status**

**Grade 4**

Proficient 96

**Grade 8**

Proficient 84

**Grade 11**

Proficient 84

**2006-2007 Science Data: Non-Socioeconomic Status**

**Grade 4**

Proficient 88

**Grade 8**

Proficient 89

**Grade 11**

Proficient 86

**2007-2008 Science Data: Non-Socioeconomic Status**

**Grade 4**

Proficient 87.2

**Grade 5**

Proficient 92.1

**Grade 6**

Proficient 100

**Grade 7**

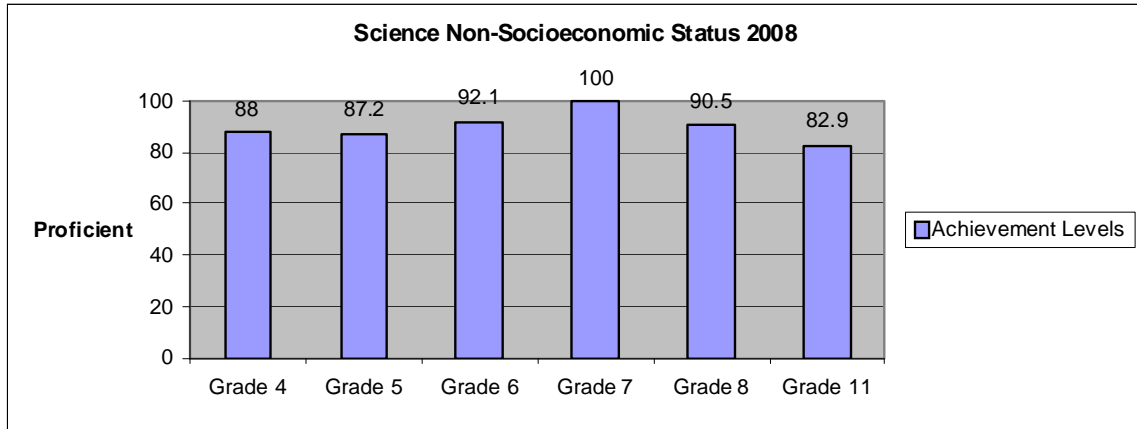
Proficient 90.5

**Grade 8**

Proficient 82.9

**Grade 11**

Proficient 76.4



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**Students Disabilities Proficiency in Science**  
**2006, 2007, 2008**

**2005-2006 Science Data: Disability Status**

**Grade 4**

Proficient 64

**Grade 8**

Proficient 44

**Grade 11**

Proficient 29

**2006-2007 Science Data: Disability Status**

**Grade 4**

Proficient 100

**Grade 8**

Proficient 80

**Grade 11**

Proficient 25

**2007-2008 Science Data: Disability Status**

**Grade 4**

Proficient 58.9

**Grade 5**

Proficient 100

**Grade 6**

Proficient 92.7

**Grade 7**

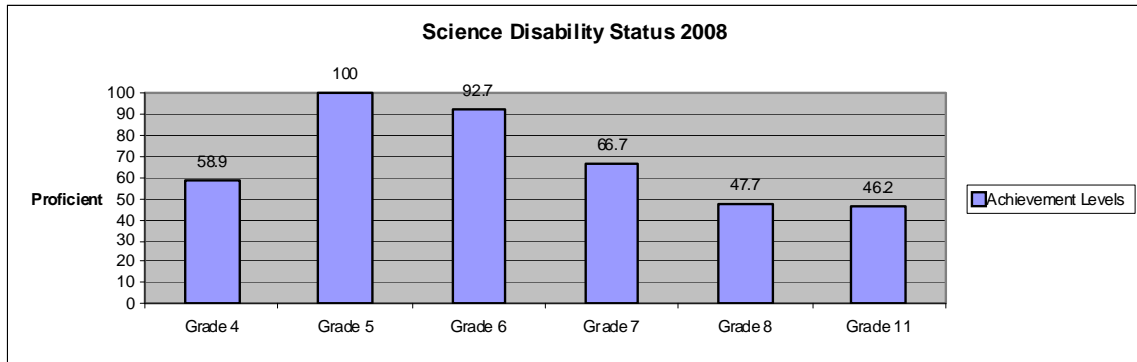
Proficient 66.7

**Grade 8**

Proficient 47.7

**Grade 11**

Proficient 46.2



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**Students Non Disabilities Proficiency in Science**  
**2005, 2006, 2007**

**2005-2006 Science Data: Non-Disability Status**

**Grade 4**

Proficient 95

**Grade 8**

Proficient 92

**Grade 11**

Proficient 84

**2006-2007 Science Data: Non-Disability Status**

**Grade 4**

Proficient 88

**Grade 8**

Proficient 90

**Grade 11**

Proficient 86

**2007-2008 Science Data: Non-Disability Status**

**Grade 4**

Proficient 93.4

**Grade 5**

Proficient 91.7

**Grade 6**

Proficient 99

**Grade 7**

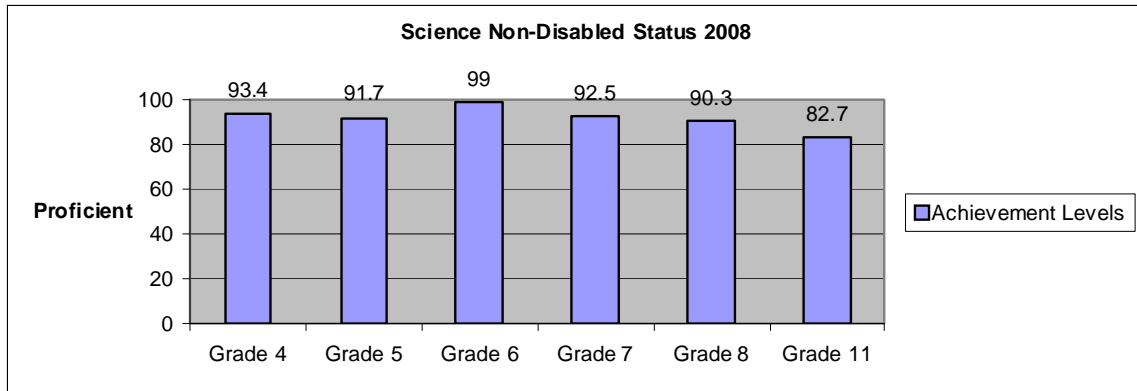
Proficient 92.5

**Grade 8**

Proficient 90.3

**Grade 11**

Proficient 82.7



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**DISTRICT DESIGNED SCIENCE ASSESSMENT**

The District Designed Science Assessment was developed during the 2000-2001 School Year by our 7-12 Science Department. The test provides information to our Science Department on how well the Science Standards are being implemented with regard to student achievement. The District Science Assessment focuses questions on the following core areas in our science curriculum: Plant, Animal, Chemistry, Physical and Earth Sciences. Grade Levels assessed at this time are Grade Eight and Grade Eleven. GWAEA has provided a scoring mechanism that allows our 7-12 Science Department the ability to focus on Grade Level and Subgroup information as it relates to test scores. This assessment will be monitored regularly for updates and changes in our Science Standards and Benchmarks. (N=Number of students tested)

