

Science and Technology/Engineering

Milton Public Schools
2008 MCAS RESULTS

Presented by:

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Science and Technology/Engineering (STE) Testing Schedule

- Grade 5: Integrated Test (Life, Physical, Earth and Technology/Engineering)
- Grade 8: Integrated Test (Life, Physical, Earth and Technology/Engineering)
- High School: Subject specific (Biology or Chemistry). MCAS taken during the year that the subject is taken.

Graduation Requirement:

Science and Technology/Engineering (STE)

Class of 2010 must pass a STE MCAS:

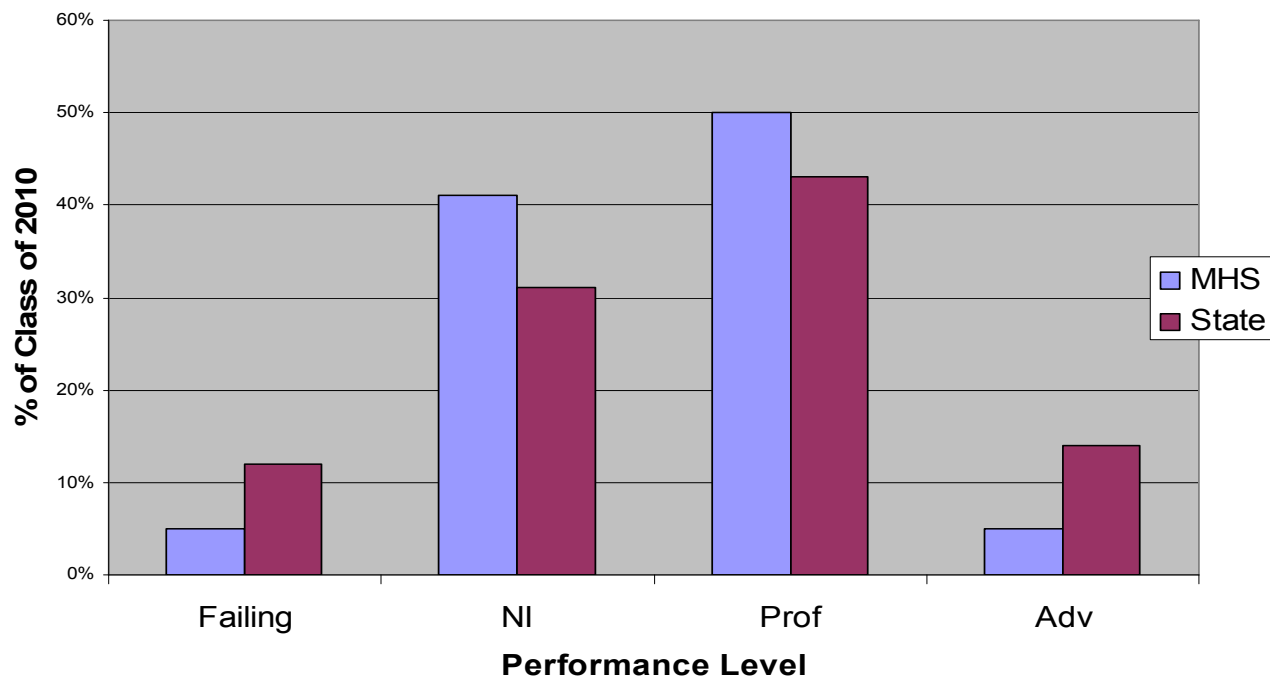
Options at Milton High School:

- Biology
- Chemistry

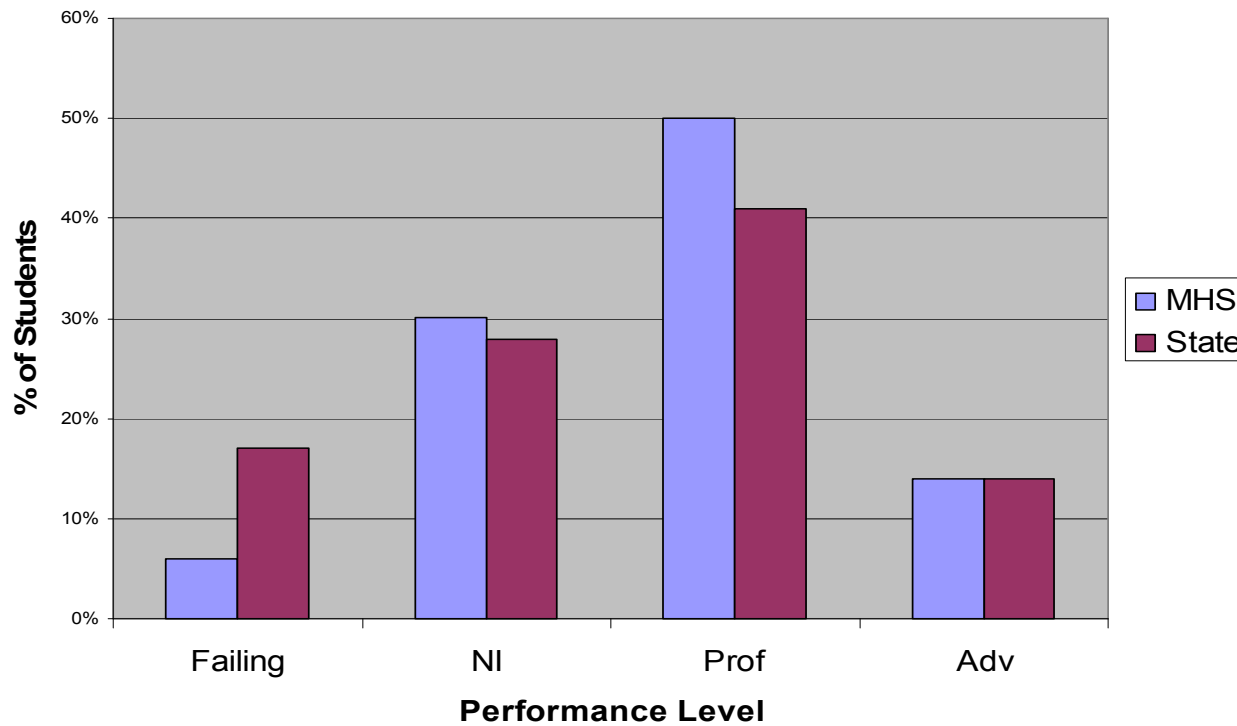
Class of 2010 Results

- To date 95% of the Class has passed the requirement
- The data for the Class of 2010 includes:
 - 206 students who took the 2007 Biology MCAS
 - 68 students who took the 2008 Biology MCAS
 - 8 students who took the 2008 Chemistry MCAS

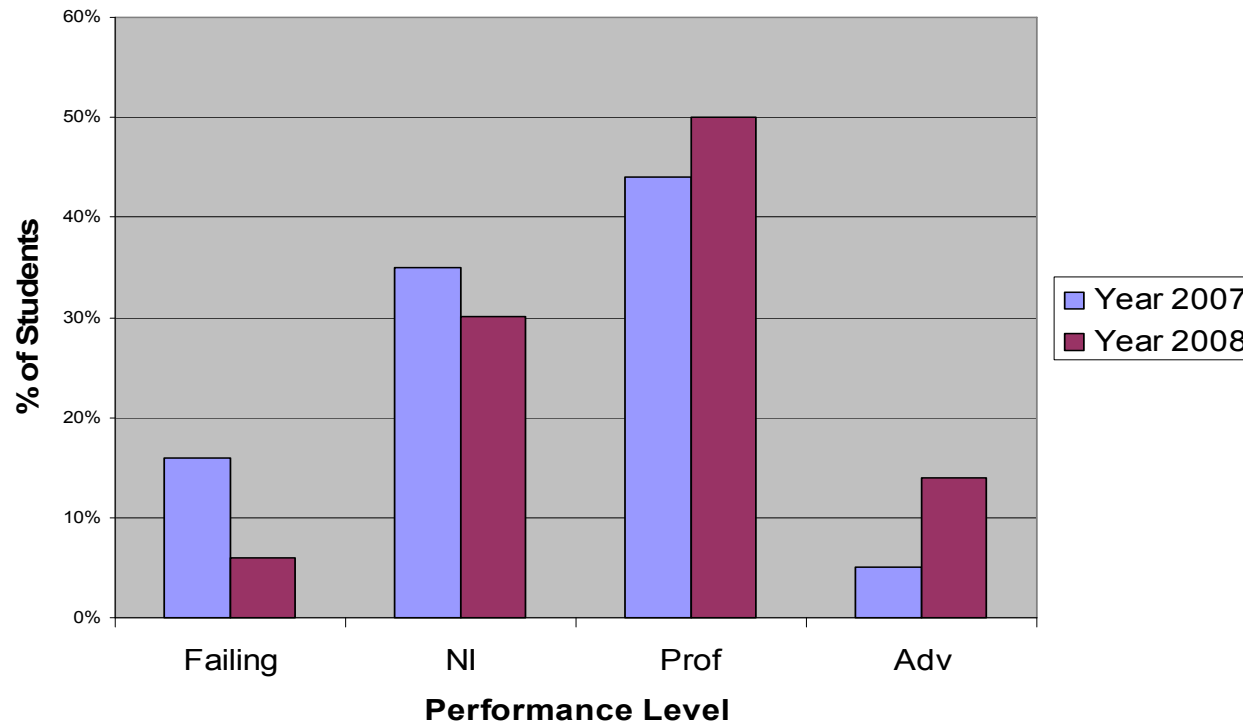
2008 Science and Technology Engineering



2008 Biology MCAS: Comparison with State



Biology MCAS: Comparison of 2007 and 2008

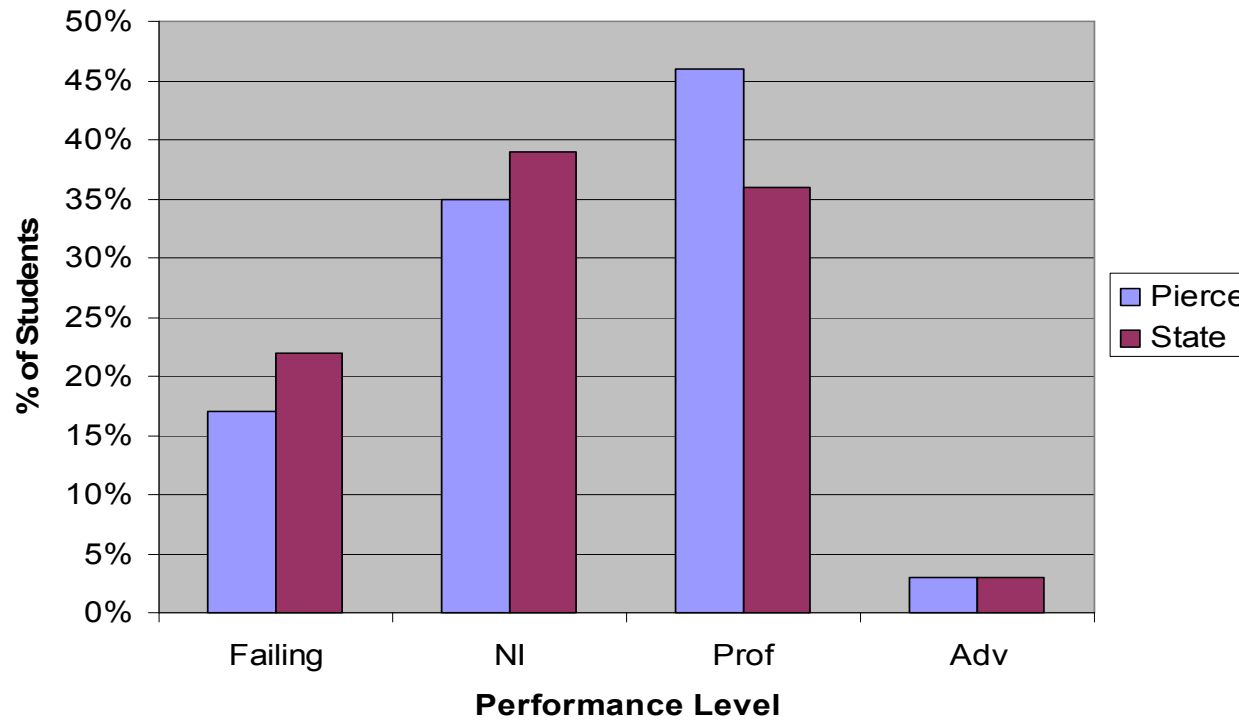


Summary of Biology MCAS 2008

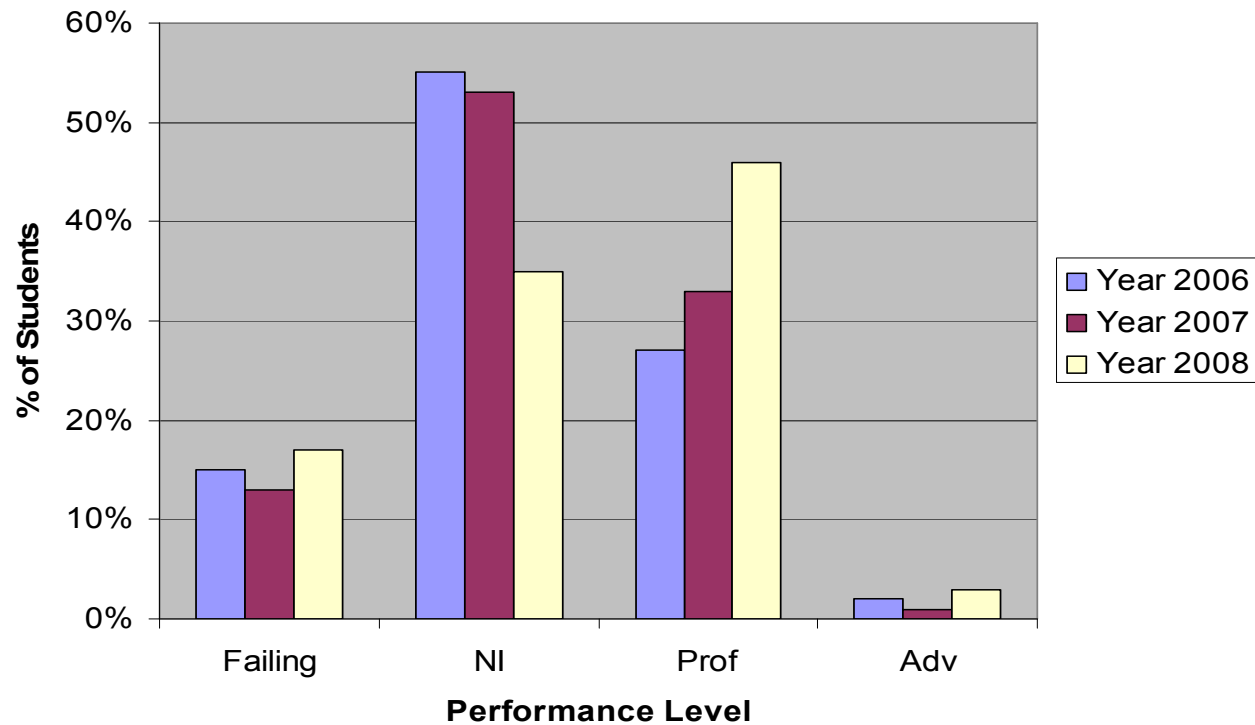
- **More students scoring “Advanced”:**
5% → 14%
- **More students scoring “Proficient”:**
44% → 55%
- **Fewer students scoring “Needs Improvement”:** **35% → 30%**
- **Fewer students scoring “Failing”:**
16% → 6%

Pierce 2008:

Grade 8 STE MCAS Results



Pierce Grade 8 STE Performance 2006-2007



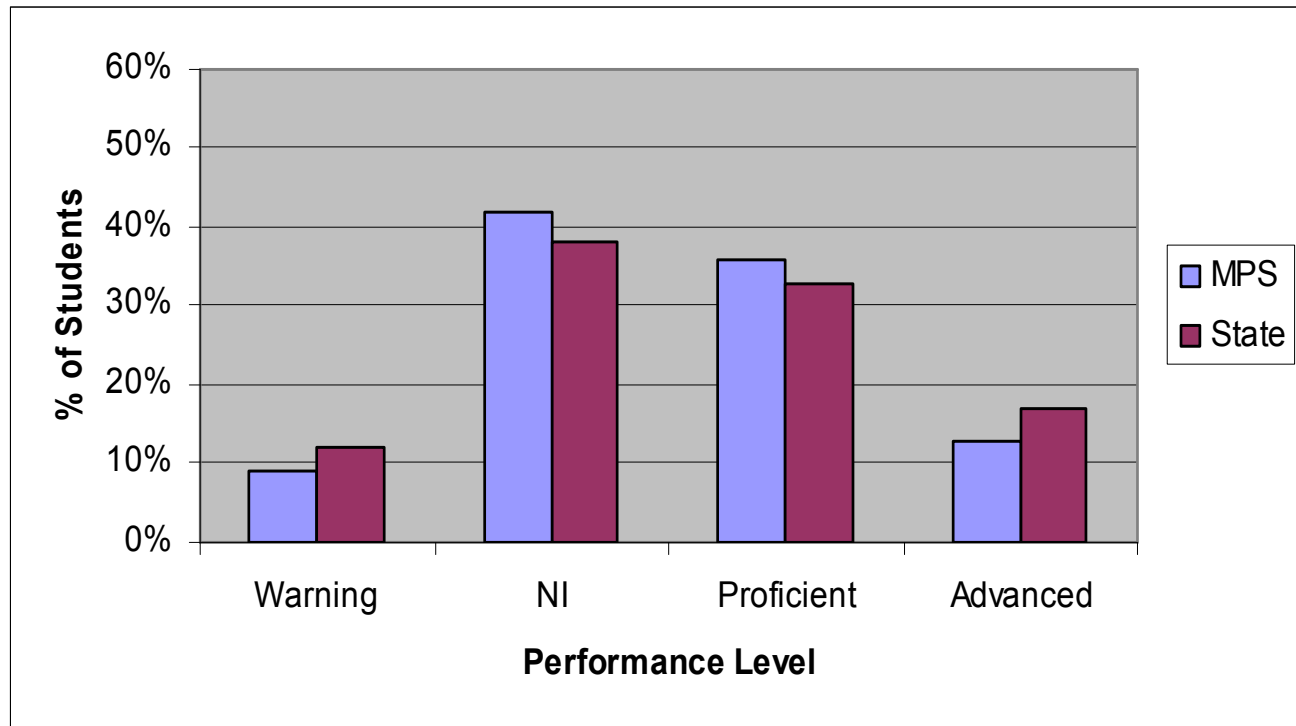
Summary of Pierce 8th Grade STE Results: 2006-2008

- More students scoring “**Proficient**”:
27%→33%→46%
- Fewer students scoring “**Needs Improvement**”:
55%→ 53%→ 35%
- Less than 2% change at the “**Advanced**” and “**Warning**” Levels

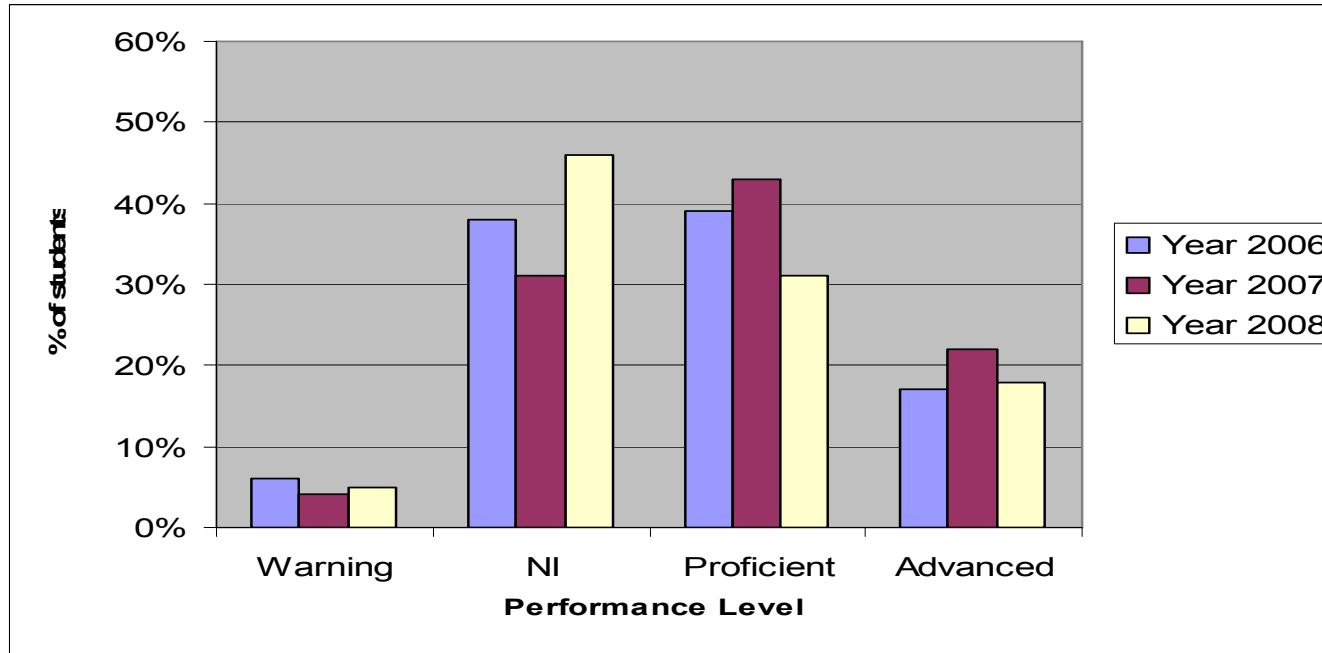
Pierce Notes

- Sub-groups' success mirrors what we see for Math
- Strategies:
 - Pre-AP PD in Math and Science will help both disciplines
 - Implementation of Tufts/Museum of Science Engineering Curricula Materials will help both disciplines

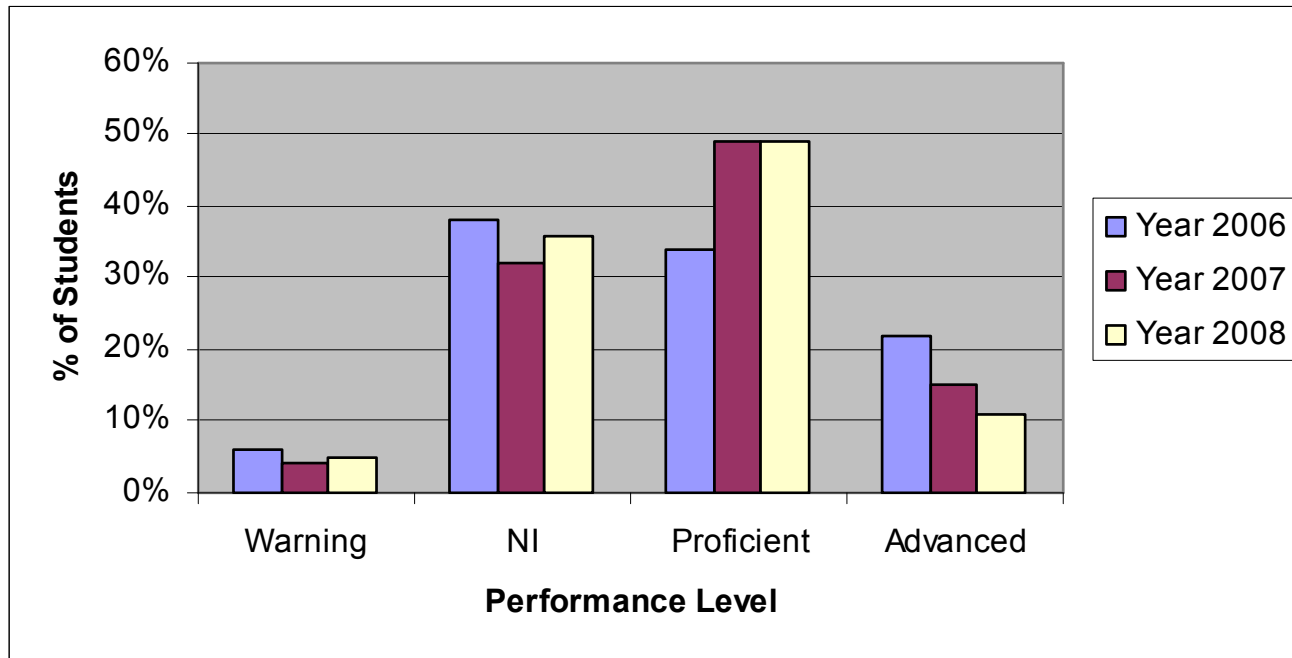
MPS Grade 5 STE MCAS



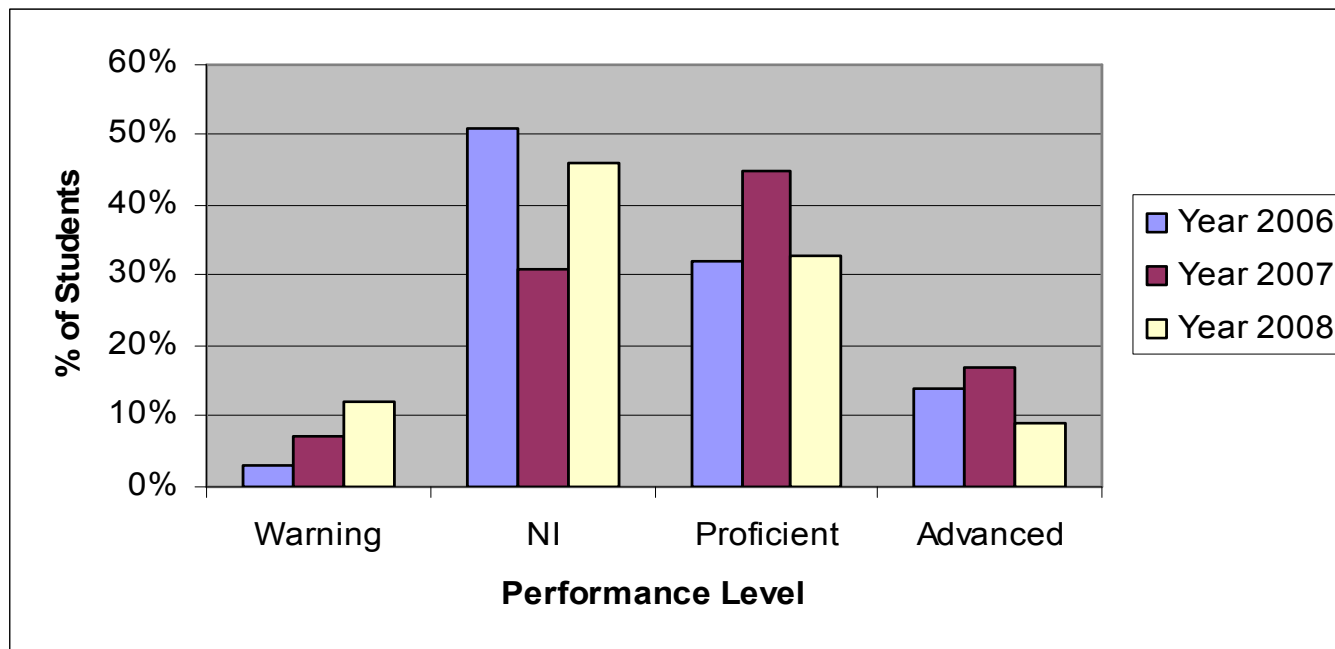
Glover Grade 5 STE MCAS



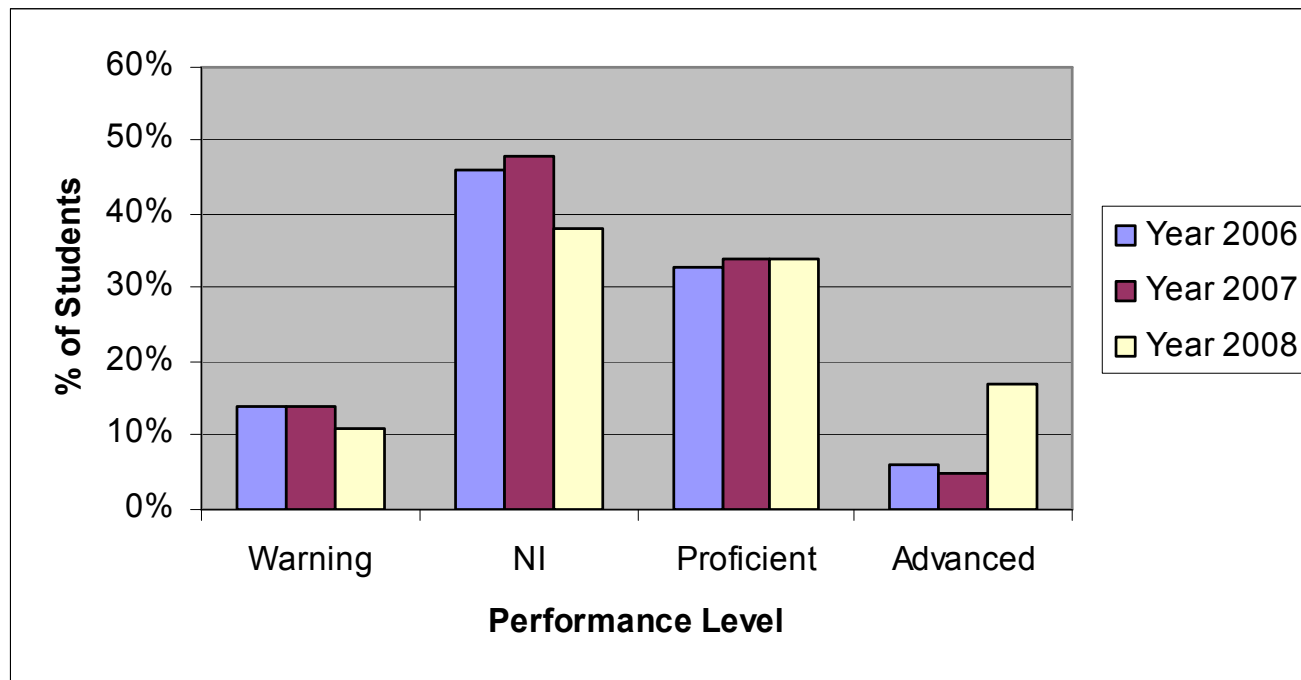
Collicot Grade 5 STE MCAS



Cunningham Grade 5 STE MCAS



Tucker Grade 5 STE MCAS



Elementary STE Notes

- Tucker has shown improvement
- WISP implementation for the 5th grade
- Creation of science supply “libraries”