

STEM Goals and Initiatives

2010 - 2014

GOAL #1: To develop a consistent inquiry-based approach to laboratory experiments conducted in grade 7-12 science classes. All students will employ the scientific method and formal lab reports, including argumentative writing.

GOAL #2: To align the curriculum to the speaking and listening standards with a particular focus on increasing opportunities to utilize technology to demonstrate progress towards mastery across all disciplines.

GOAL #3: To provide sophomore and junior students with SAT test-taking strategies as well as SAT practice sessions. The goal is that the average score on the mathematics SAT in Hanover will exceed both the state and national average.

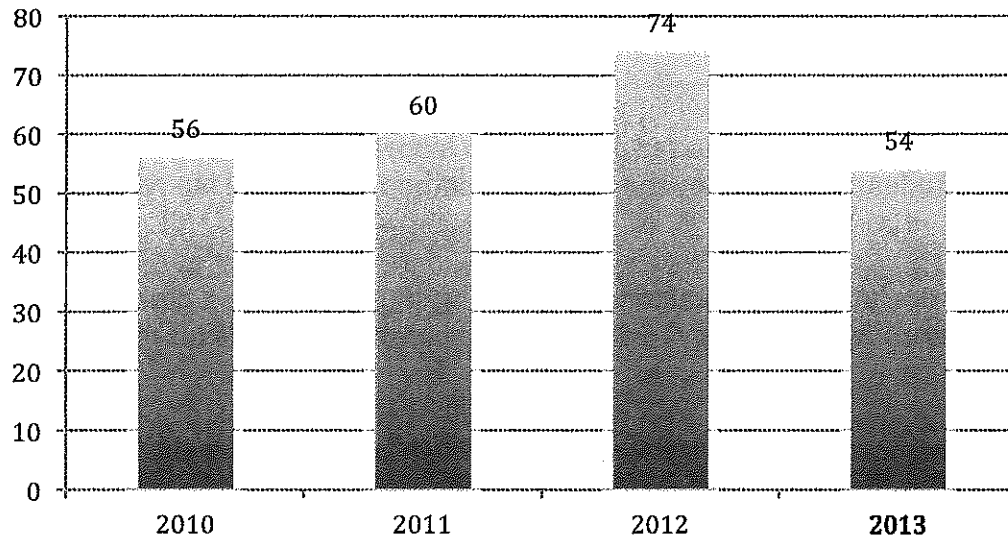
INITIATIVES (COMPLETED / ON-GOING):

- Pacing guide developed for the AP Biology curriculum
- Amgen Bruce Wallace Program incorporated into the AP Biology curriculum
- Soapstone tool introduced to assist in critical reading
- PSAT practice questions during block periods
- AP Environmental Science course introduced

INITIATIVES (UNDERWAY/ FUTURE):

- PSAT practice questions initiative expanded to SAT practice sessions
- Inquiry-based laboratory experiments being developed – Chemistry and Environmental Science
 - Inquiry-based labs allow students to engage in science practices that require them to think and act like scientists. College Board has clearly stated that the focus in the AP Science courses is shifting from content coverage – breadth – toward enduring understandings and scientific reasoning skills – depth.
- AP Physics is being separated into two full-year courses
 - Beginning next school year, AP Physics will be broken into a two –year course and therefore a two-year exam. To that end, our current Honors Physics course will become AP Physics I and our current AP Physics will become AP Physics II thereby increasing our overall AP enrollment.

**Enrollment in AP STEM Courses
(Biology, Calculus, Chemistry, Physics)**



**Percent of students with a score of 3+
(Biology, Calculus, Chemistry, Physics)**

