

# PRISM Goals 2009-2010 AND BEYOND

**GOAL (1)** PRISM school districts will either achieve a district-designated, enrollment threshold percentage or increase by 5% annually (for each category offered...through 2020) student enrollment in International Baccalaureate programs (any level); Advanced Placement math and science courses; Advanced International Certificate of Education (AICE) math and science courses; dual-enrollment math and science courses; and other advanced math and science courses (pre- designated).

## Goal #1 Metrics

**Data required** from each school district for 2009-2010 school year (due by Dec. 2010)

- a) Total number of students enrolled in school district in fall semester (as of Oct. 2008)
- b) Total number students enrolled in fall semester (as of Oct. 2008) in following categories:
  - IB program (any level)
  - AP math and science courses
  - Advanced International Certificate of Education (AICE) math and science courses
  - Dual-enrollment math and science courses
  - Other (pre-designated) advanced math and science courses
- c) Total number of students listed in step 'b' successfully completing courses (June 2009)
- d) Total number of students enrolled in school district in fall semester (as of Oct. 2009)
- e) Total number of students enrolled in fall semester (as of Oct. 2009) in following categories:
  - IB program (any level)
  - AP math and science courses
  - Advanced International Certificate of Education (AICE) math and science courses
  - Dual-enrollment math and science courses
  - Other (pre-designated) advanced math and science courses
- f) Total number of students listed in step 'e' successfully completing courses (June 2010)
- g) Threshold enrollment percentage (based on demographic, economic and other relevant factors)

### **Notes:**

- 1) Will try to capture 2008-2009 AY data.
- 2) Course "success" is defined as passing course with grade of C or better (exam results not considered in this metric)
- 3) Assess each category separately vs. combining programs and courses
- 4) Each school district will need to annually determine their threshold enrollment percentage (based on demographic, economic and other relevant factors)

**GOAL (2)** PRISM school districts will increase by 3% annually (through 2020) the percentage of students scoring at the college level on the International Baccalaureate exam, Advanced Placement exams in math or science, end of course exams for dual-enrollment math and science courses, and Advanced International Certificate of Education (AICE) exams in math or science.

### **Goal #2 Metrics**

**Data required** from each school district for 2009-2010 school year (due by Dec. 2010)

- a) Total number of students enrolled in fall semester (as of Oct. 2008) in targeted courses or programs.
- b) Total number of students enrolled in fall semester (as of Oct. 2008) in targeted courses or programs who take qualifying exam.
- c) Total number of students scoring at college level on exams administered between Oct. 2008 and Sep. 2009.
  - International Baccalaureate Exam
  - Advanced Placement Exam (level 3 or better)
  - End of course exams for dual-enrollment math and science courses
  - Advanced International Certificate Exam
- d) Total number of students enrolled in fall semester (as of Oct. 2009) in targeted courses or programs.
- e) Total number of students enrolled in fall semester (as of Oct. 2009) in targeted courses or programs who take qualifying exam.
- f) Total number of students scoring at college level on exams administered between Oct. 2009 and Sep. 2010.
  - International Baccalaureate Exam
  - Advanced Placement Exam (level 3 or better)
  - End of course exams for dual-enrollment math and science courses
  - Advanced International Certificate Exam

**Notes:**

- 1) Will try to capture 2008-2009 AY data.

**GOAL (3)** PRISM school districts will increase by 5% annually (or until achieving 90% of all students) the number of students successfully completing Algebra I by the end of the eighth grade by 2020.

### **Goal #3 Metrics**

**Data required** from each school district for 2009-2010 school year (due by Dec. 2010)

- a) Total number of students graduating from 8th grade in spring 2009.
- b) Total number of graduates in step 'a' having successfully completed Algebra I (as of June 2009)
- c) Total number of students graduating from 8th grade in spring 2010.
- d) Total number of students in step 'c' having successfully completed Algebra I (as of June 2010)

**Notes:**

- 1) Will try to capture 2008-2009 AY data.
- 2) Course "success" is defined as passing course with grade of C or better.
- 3) Algebra I, or any state-approved course equivalent or higher

**GOAL (4)** PRISM school districts will either achieve a district-designated, threshold percentage or increase by 3% annually the number of students scoring at proficiency level 3 and above on FCAT math and science exams through 2020.

### Goal #4 Metrics

**Data required** from each school district for 2009-2010 school year (du by Dec. 2010)

- a) Total number of students enrolled in fall semester (as of Oct. 2007)
- b) Total number of students taking FCAT math exam (as of June 2008)
- c) Total number of students scoring at level 3 or above on math exam (as of June 2008)
- d) Total number of students taking FCAT science exam (as of June 2008)
- e) Total number of students scoring at level 3 or above on science exam (as of June 2008)
- f) Total number of students enrolled in fall semester (as of Oct. 2008)
- g) Total number of students taking FCAT math exam (as of June 2009)
- h) Total number of students scoring at level 3 or above on math exam (as of June 2009)
- i) Total number of students taking FCAT science exam (as of June 2009)
- j) Total number of students scoring at level 3 or above on science exam (as of June 2009)
- k) Total number of students enrolled in fall semester (as of Oct. 2009)
- l) Total number of students taking FCAT math exam (as of June 2010)
- m) Total number of students scoring at level 3 or above on math exam (as of June 2010)
- n) Total number of students taking FCAT science exam (as of June 2010)
- o) Total number of students scoring at level 3 or above on science exam (as of June 2010)

**Notes:**

- 1) Will try to capture 2008-2009 AY data
- 2) Record similar data for grade levels 5, 8 and 10 for FCAT math exams.
- 3) Record similar data for grade levels 5, 8 and 11 for FCAT science exams.
- 4) As FCAT transitions to different testing types, this metric will be adjusted to accommodate.

**GOAL (5)** PRISM school districts' composite scores for FCAT math and science and completion percentages for advanced placement in math and science courses will rank equivalent to (or higher than) the top 10% of all school districts in the state by 2015. When/where comparable data is available, PRISM school districts' composite scores and completion percentages for math and science will also rank among the top 10% of other national scores by 2015.

### Goal #5 Metrics

**Data required** from each school district for 2009-2010 school year (due by Dec. 2010)

- a) FCAT math composite score for each school in given district (as of June 2009)
- b) FCAT science composite score for each school in given district (as of June 2009)
- c) FCAT math composite score for each school in given district (as of June 2010)
- d) FCAT science composite score for each school in given district (as of June 2010)
- e) Math advanced placement completion percentage for each school in given district (as of June 2009)
- f) Science advanced placement completion percentage score for each school in given district (as of June 2009)
- g) Math advanced placement completion percentage for each school in given district (as of June 2010)
- h) Science advanced placement completion percentage for each school in given district (as of June 2010)

**Notes:**

- 1) Will try to capture 2008-2009 AY data.
- 2) Record similar data for grade levels 5, 8 and 10 for FCAT math exams.
- 3) Record similar data for grade levels 5, 8 and 11 for FCAT science exams.
- 4) Standardized test scores for national comparisons might come from available ACT (Science) and SAT (Math) scores.

**GOAL (6)** PRISM school districts will increase the participation of middle school and high school students in math and science state and national competitions by 5% annually. PRISM school districts will also increase the number of teams placing (specific recognition) and placing first in state, national and international math and science competitions by at least one annually through 2020.

### Goal #6 Metrics

**Data required** from each school district for 2009-2010 school year (due by Dec. 2010)

- a) Total number of students enrolled (all district schools) in fall semester (as of Oct. 2008)
- b) Total number of students enrolled (all district schools) in fall semester (as of Oct. 2009)
- c) Total number of students enrolled (all district schools) in fall semester (as of Oct. 2010)
- d) Number of middle school students (all district schools) participating in math or science competitions during 08-09 AY
- e) Number of middle school students (all district schools) participating in math or science competitions during 09-10 AY
- f) Number of high school students (all district schools) participating in math or science competitions during 08-09 AY
- g) Number of high school students (all district schools) participating in math or science competitions during 09-10 AY
- h) Number of teams (all district schools) placing in state competitions during 08-09 AY
- i) Number of teams (all district schools) placing in national competitions during 08-09 AY
- j) Number of teams (all district schools) placing in international competitions during 08-09 AY
- k) Number of teams (all district schools) placing in state competitions during 09-10 AY
- l) Number of teams (all district schools) placing in national competitions during 09-10 AY
- m) Number of teams (all district schools) placing in international competitions during 09-10 AY
- n) Number of teams (all district schools) placing 1st in state competitions during 08-09 AY
- o) Number of teams (all district schools) placing 1st in national competitions during 08-09 AY
- p) Number of teams (all district schools) placing 1st in international competitions during 08-09 AY

- q) Number of teams (all district schools) placing 1st in state competitions during 09-10 AY
- r) Number of teams (all district schools) placing 1st in national competitions during 09-10 AY
- s) Number of teams (all district schools) placing 1st in international competitions during 09-10 AY

**Notes:**

- 1) Will try to capture 2008-2009 AY data.
  - 2) Must define (specify) qualifying competitions (TBD).
  - 3) Team will be defined as any participation of one or more students.
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**GOAL (7) PRISM (through its PRISM Scholar Program) will annually recognize the most outstanding student, and most improved student, for math and for science starting in the 2009-2010 academic year through 2020.**

**Goal #7 Metrics**

**Data required** from each school district for 2009-2010 school year (due Dec. 2010)

- a. Names of most outstanding students and most improved students in math and in science for each school district

**Notes:**

- 1. Individual school districts will determine student award winners.
- 2. Individual school districts will determine qualifying criteria for each award.
- 3. PRISM finances will drive award numbers, award values and award scheme. Preferred scheme would be a “large” initial award (\$250?) with smaller follow-on award (\$50?) repeat winners.
- 4. Award values TBD by PRISM budget.

**GOAL (8)** PRISM will annually recognize 40 outstanding math and science teachers who will be asked to share best practices with other teachers throughout their school districts by (a) conducting local seminars (when possible) and (b) submitting white papers (summarizing their best practices) to PRISM's central resource repository.

### **Goal #8 Metrics**

**Data required** from each school district for 2009-2010 school year (due Dec. 2010)

- a) Names of most outstanding math and science teachers for each school district
- b) Track and report completion of local seminars (discussing best practices) during 09-10 AY  
Also submit number of attendees and qualitatively assess impact of presentation.
- c) Track and report submission of white papers (summarizing best practices) to PRISM central resource repository during 09-10 AY

**Notes:**

- 1) Individual school districts will determine their outstanding math and science teachers.
  - 2) PRISM finances will drive award numbers, award values and award scheme.
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**GOAL (9)** PRISM will work with business and industry to provide meaningful internships related to math and science careers for a minimum of 25 teachers and 25 students by 2010 and annually thereafter.

### **Goal #9 Metrics**

**Data required** from each school district for 2009-2010 school year (due Dec. 2010)

- a. Track and report completion of meaningful internships (lasting at least two months and related to math and science careers) during 09-10 AY for teachers and for students

**GOAL (10)** PRISM will create, in cooperation with industry, higher education, and PRISM school districts, a central resource repository to house a collection of best practice white papers, innovative course material and other relevant STEM information for use by any teacher in the PRISM school districts. The repository will be accessible via the web; on- line by the end of the 2009-2010 AY, and updated annually through 2020.

### **Goal #10 Metrics**

**Data required** (due Dec. 2010)

- a) Track and report listing of PRISM CENTRAL repository resources on an annual basis
  - b) Qualitatively assess number and major themes of best practice papers
  - c) Highlight innovative processes that resulted in submission of high quality papers (or large quantity of high quality papers)
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**GOAL (11)** PRISM will conduct an Annual Leadership Symposium on STEM education needs and related work opportunities as a precursor to refining strategic goals and updating annual action plans.

### **Goal #11 Metrics**

**Data required** (due Dec. 2010)

- a) Complete annual symposium; prepare and present proposed strategic plan updates and annual action plan to PRISM Board of Directors