

## Action Plans

**a) Action Plan for Goal 1, Objective A:** Increasing scores on the PSAT from 9<sup>th</sup> to 10<sup>th</sup> and 10<sup>th</sup> to 11<sup>th</sup> grades, and increasing scores on the SAT in twelfth grade from year to year;

### Science Department

<b>Activity Steps</b>	<b>Person/Group Responsible</b>	<b>Timelines for Completion</b>	<b>Resources Needed</b>	<b>Evaluation/ Indicators of Success</b>	<b>Date Completed</b>
Practice with graphs	Classroom teachers	Ongoing	Graph paper/ Computers	County indicators related to graphing in specific science areas	Ongoing
Scientific or technical reading	Classroom teachers	Ongoing	Scientific journals and magazines (including online resources)	Formative inclass assessments/ County assessments (also HSAs)	Ongoing
BCR practice writing	Classroom teachers Science discipline teams	Ongoing	Anchor papers Rubrics	Formative inclass assessments using rubrics Peer review of exemplars	Ongoing
Word problem analysis	Classroom teachers (math and science interdisciplinary)	Ongoing	Word problem bank Online practice problems	Pedagogically tested formative and summative assessments aligned with county, state and national indicators	Ongoing

## Action Plans

**a) Action Plan for Goal 1, Objective B:** Increasing the percentage of graduating students meeting college rigorous standards;

### Science Department

Activity Steps	Person/Group Responsible	Timelines for Completion	Resources Needed	Evaluation/ Indicators of Success	Date Completed
Prepare dept video highlighting courses	staff	fall 06	video camera technical consult for videography	increased # students in additional science courses	
Expand tutoring and study group opportunities	staff	on-going	1. available rooms, common lunch schedules (1 hour open lunch) 2. Two hour delay one day each week so teachers can meet with small groups of students for a longer block of time	student achievement in science courses increases	
Career oriented speaker series; highlighting recent WHS graduates, particularly those who were not honors students	staff (Herzon/ Adler)	on-going, expand	lecture room, wireless access & projector for ppt appropriately organized, set up, available; adequate ventilation and professional ambiance	increased student enrollment in science courses, increased interest in internships and career path opportunities	
Career completer path courses in scientific fields such as biomedicine, ecology and related fields: ie Horticulture (Landscape design), Forensics, Nutrition & Food Science/technology, Medical Careers. Develop partnerships with local businesses to accept student internships. Articulation w/ MC	staff to coordinate Montgomery Youth Works, Business Roundtable, etc.	pending acceptance of program	classrooms, staff, administrative/ clerical support, funding for curriculum development, teacher training and materials for courses	increased student enrollment in and completion of career pathway w/ articulation w/ MC	

<b>Activity Steps</b>	<b>Person/Group Responsible</b>	<b>Timelines for Completion</b>	<b>Resources Needed</b>	<b>Evaluation/ Indicators of Success</b>	<b>Date Completed</b>
Career orientation course for all 8 <sup>th</sup> (early) 9 <sup>th</sup> grade highlighting resume preparation and importance of maintaining academic achievement	staff to coordinate Montgomery Youth Works, Business Roundtable, etc.	pending acceptance of program	classrooms, administrative/clerical support	Increased student awareness that taking advantage of opportunities in HS leads to opportunities in post HS training	
Develop research/project track for students who will perform independent research and/or enter major competitions, Intel, Toshiba, Duracell, etc	staff	pending acceptance of program	classrooms, staff, clerical support.	Increased number of students winning major competitions	

## Action Plans

**a) Action Plan for Goal 1, Objective C:** Increasing the number of students enrolled in Honors, AP, and College Institute classes;

### Science Department

Activity Steps	Person/Group Responsible	Timelines for Completion	Resources Needed	Evaluation/ Indicators of Success	Date Completed
Taking an Honors Science course in 9 <sup>th</sup> grade	Middle school science teachers, representatives from high schools (students and teachers), vertical articulation committees, parents	8 <sup>th</sup> grade registration, February	8 <sup>th</sup> grade teachers, high school teachers, high school students, class time, guidance counselors	Enrollment in honors classes available to 9 <sup>th</sup> graders	Registration deadlines
Designated day to discuss course selection with 9, 10, and 11 <sup>th</sup> grade students for the next year	Science teachers	Organized in January, occurs in February after registration materials have been distributed.	Teachers, class time, students representatives from each advanced course, course flow diagram	Number of students enrolled in Honors and AP courses	Registration deadlines for each grade level
STARS Program Participation	STARS committee	Program applications are accepted yearly	Financial, scheduling considerations, research and design course, staffing	Number of students in STARS program	Graduation ceremony

Extra-Curricular Science Competitions	Science teachers,	Competition specific	Staff support, financial support, extra curricular time for preparation and practice,	Course selections of students participating in competitions	Competition specific
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## Action Plans

**a) Action Plan for Goal 1, Objective D:** Increasing the number of students receiving college credit through AP and College Institute classes;

### Science Department

Activity Steps	Person/ Group Responsible	Timelines for Completion	Resources Needed	Evaluation/ Indicators of Success	Date Completed
RECRUITMENT THROUGH ADVERTISEMENT IN SCIENCE CLASSROOMS	ALL SCIENCE STAFF	ANNUALLY IN FEBRUARY	COURSE OBJECTIVES OVERHEAD/ ANNOUNCEMENTS/STUDENT PRESENTATIONS	NUMBER OF STUDENTS ENROLLED IN AP CLASSES	ANNUALLY
EXTRA TIME FOR LABS(EXTENDED OR DOUBLE PERIOD)	ADMINISTRATOR MASTER SCHEDULER	ANNUALLY	MASTER SCHEDULE AND ADMINISTRATOR SUPPORT	SCHEDULE	ANNUALLY
PERSUADE AND ENCOURAGE, COLLECT AP TEST REGISTRATION	AP TEACHERS	FEB AND MAR	AP CLASS LIST FROM COORDINATOR	NUMBER OF STUDENTS REGISTERED	ANNUALLY
COURSE LINKS, STUDY GUIDES, STUDY GROUPS, TEST CORRECTIONS, SCHOOL-WEB LINKS TO COLLEGE BOARD, TEACHER WEB SITE, PRACTICE EXAM, WEEK(S) LONG REVIEW	AP TEACHERS		COMPUTERS, SITES, PAPERS, <u>TIME</u>	AP Scores	ANNUALLY