

Curriculum and Instruction Update

August 20, 2018 Board Meeting

- * Guidance and Scheduling Update
- * Supports For STEM Initiative
- * Summer Programs
- * Professional Development

Guidance and Scheduling Update

Completed Schedules

- * High School schedules completed and distributed to counselors in mid-June; mailed home in early July
- * All schedule change requests were made with 24 hours; revised schedule mailed home that day, with 99% of requests completed and honored
- * Final scheduled mailed to students week of August 27

Guidance and Scheduling Update

Utilized Technology Structure to Monitor Student Placement of STEM courses:

- Online course selection for parents and students grades 5-7 and 8-11
- Classroom teacher feedback for placement
- Grade 5 -7 by school, counselors, principals
- Grades 8-11 by counselors, supervisors, administration

Guidance and Scheduling Update

Counselor, Teacher, and Administrator Collaboration

- Met and trained counselors on PowerSchool to develop procedures to engage teachers in student course selection process
- Counselors followed up with students after review of teacher feedback, and with students who did not select courses by deadline
- Charted student placement, reviewed data and shared with respective counselors, supervisors, and counselors

Supports for STEM Realignment

August 20, 2018 Board Meeting

- Staffing and Program
- Curriculum and Assessment Development
- Professional Development
- Monitoring Student Progress
- Summer Programs

Staffing and Program

Columbia High School

- **Two Full Time High School Teachers; Mathematics and Science**
 - Reduced class size average: 16 for academic courses and 22 for honors courses; overall average class size 19 for following courses
 - Algebra 1, Geometry, Algebra 2, Pre-calculus
 - Biology, Physics, Chemistry
 - Paid by Title II funds
- **One School Counselor**
 - Create a usable space that has technology, staffing, and resources
 - Create a working system where teachers, students, and mentors, can access academic tools for student success
 - Work with counselors, parents, teachers, and administration
 - Create individual goals and academic support plan for students
 - Access to STEM Mentors

Staffing and Program

Columbia High School

Create STEM Lab for students during the day, periods 1 through 8

- Mathematics and science teachers assigned to STEM Lab as duty period 1-8 to provide academic support
- Utilize CHS Library as location that is monitored

Schedule Common Planning Time for Teachers Twice a Month

- Collaborate and monitor curriculum
- Develop lesson plans
- Inform and modify instructional practice
- Develop and modify assessment practices
- Review student data
- Receive professional development

Increase Chromebooks for the Mathematics and Science Classes to Facilitate Student Learning

Curriculum and Assessments

Columbia High School

- * Teachers met from March through June to collaborate on the curriculum units for the Realigned STEM courses for Algebra 1, Geometry, Algebra 2, Pre-calculus, Biology, Physics, and Chemistry
- * Curriculum was revised during the summer
- * Teachers will review drafts of the curriculum on September Professional Development Day
- * Revisions will be made for Board Approval

Curriculum and Assessments

- * Teachers met to discuss and develop Quarterly Common Assessments in mathematics and science courses, grades 9-11 to monitor curriculum implementation and student progress
- * Utilize Data warehouse and assessments, multiple measures; Renaissance, local and state assessments, and historical data

Professional Development

Columbia High School

- * Utilizing Data warehouse System and Assessments to Inform Instruction
- * Implementing Differentiated Instruction
- * Creating Student-Centered Learning Environments
- * Creating Standards-Based Assessments
- * Integrating Technology to Facilitate Student Learning

Staffing and Program

Middle Schools

Two full time mathematics teacher; one at each middle school to provide academic support in the mathematics classroom

- Working with diverse learners
- Co-teaching with classroom teacher
- Modeling best practices with emphasis on data driven instruction
- Differentiating Instruction
- Utilizing technology to enhance student learning
- Attending grade level meetings to support diverse learners

Staffing and Program

Middle Schools

Reconfigure the rotating period, grades 6 and 7, English, Mathematics, Science, and Social Studies as a scheduled class period

- Teachers with current case load of four classes will meet six times in one week.
- This class period becomes an instructional period with a class roster, attendance, assessments, lesson plans, and observations
- Increases instructional time to 50 minutes a week for 40 weeks, or 2000 minutes (33.3 hours) in one school year

Increase Chromebooks for the mathematics classes to facilitate student learning

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Curriculum and Assessments

Middle Schools

- * Teachers met from March through June to identify curriculum revisions for Realigned STEM courses for Math 6, Pre-Algebra 6, Math 7, Pre-Algebra 7, Pre-Algebra 8
- * Curriculum was revised during the summer
- * Teachers will review drafts of the curriculum on September Professional Development Day
- * Revisions will be made for Board Approval in October

Curriculum and Assessments

Middle Schools

- * Revised unit assessments to reflect a standards-based curriculum
- * Utilize Data warehouse and assessments, multiple measures; Renaissance, local and state assessments, and historical data

Professional Development

Middle Schools

- * Utilize grade level standards, school data, released items to plan for improvement of student learning at each grade
- * Utilize technology resources to facilitate student learning and increase student engagement
- * Differentiate instruction to meet the needs of all students
- * Summarize student data to address student performance

Elementary Schools to Support STEM Realignment

- * Introduce instructional strategies to maximize teaching potential within curriculum guidelines
- * Incorporate technology to prepare for NJ State assessments and district assessments
- * Model and create classroom lessons that address a scaffold approach to teaching

Monitoring Student Progress

Collaboration with Teachers, Supervisors, and Principals

Create a paradigm shift in teaching a standards-based curriculum that includes differentiated instruction, technology integration, and implementation of the New Jersey Student Learning Standards

- Utilize Data warehouse to inform instruction and monitor student assessments
- Coordinate the academic and instructional supports
- Monitor the documentation of all student, parent, school counselor, and teacher communications
- Conduct classroom walkthroughs to monitor curriculum implementation and assessment practices

Summer Programs

- * **Middle School Math Summer Booster Program:** Offer 14 days for all realigned mathematics courses, grades 6 through 8, provides students a preview of the content and skill expectations that will be introduced in the
- * **Middle School Summer Bridge Program:** Offer 5 days to provide support for incoming 6th graders at each middle school to acclimate to school setting and prepare for academic rigor
- * **Middle School Summer Intervention Program:** Offer 15 days to provide support to students who demonstrate low proficiency in one or more courses in preparation of fall courses
- * **Cougar Prep Program:** Offer 15 days to provide support math and ELA for grade 9 students to assist in acclimating to the high school
- * **High School Mathematics Advancement:** Offer 26 days for all realigned mathematics courses in grades 9 through 11, providing students the opportunity to advance to another course, enrolling in Calculus in grade 11 or 12
- * **Redesign the district-wide summer assignments** and online websites for students to continue mathematics study during the summer

Professional Development

* **New Staff Orientation, August 27-30**

- Intervention & Referral Services and Special Education
- Restorative Practices
- Technology Information
- Danielson Frameworks
- Curriculum
- Opportunities to meet with supervisors and principals in respective schools

Continuing Professional Development for All Staff

Professional Development

- Intervention & Referral Services Process
- Data Literacy
- Data warehouse
- Renaissance assessments
- Curriculum Review
- Lesson Planning
- Restorative Practices