

Upper St. Clair School District

Fast Track Curriculum Recommendations 2016-2017

All approved recommendations are subject to budget constraints. Administrative approval of any recommendation should not be considered as tacit approval for the related expenditures or summer workshops. Workshop could include Flex time, Act 48 hours, and/or paid workshop hours.

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Name:	HSLT	Level: High School		
Area:	All Content Areas / Grade 12			
	7	Date : November 17, 2016		
Curriculum	n Recommendation			
	and redesign the 12th grade year that further eer, and life readiness.	supports a student-centered, student-driven, and goal orie	ented experier	ce focused on
Reason(s)	for Recommendation	Implementation Steps	Cost	Administrative Reaction
has been a crit Upper St. Clai matriculated to however, an in opportunities a programs. 2. The current some level of structured must (beyond a late beyond those at 3. Some of the national level, As part of a re Pennsylvania	al preparation for academic pursuits after high school tical and lauded feature of the 12th grade year at ir. Historically, Upper St. Clair students have of four-year higher education settings. Over time, increasing number of students are exploring in work, trade schools, and two-year degree at senior year experience provides students with choice in coursework, but is fundamentally ch like grades 9-11, with less scheduling flexibility estart or early release) for preparatory experiences related to a four-year degree. The shifts in post-graduate plans, also occurring at a graduate attributed to economic and employment factors. The sponse, the 339 Guidance Plan, aligned with the Department of Education's Career and Education des, provides the framework for goal-setting within a ger pathways. (Cont'd.)	 Administrative approval. Study <i>Redefining Ready!</i>, the C3 (College, Career, and Civic) Framework, and other seminal research in the areas of college, career, and life readiness. Conduct a program evaluation of the current 12th grade experience and facilitate stakeholder input sessions of four varieties (1) an ad hoc committee of faculty representatives from all disciplines; (2) a group of professionals from the community; (3) interested members of the 2015 High School Experience Comprehensive Plan Vision Team; (4) a representative group of USCHS alumni. Use the program evaluation and stakeholder input to develop a series of recommendations related to a 12th grade redesign. Establish site visits to high schools that offer progressive 12th grade experiences. Establish committees to develop action plans that guide (1) stakeholder group recommendations, (2) feedback from benchmarking site visits, and (3) other relevant innovative 		Approved. Preparing students to transition to college and a vastly changing work world should be the goal of the senior year. This recommendation supports the District's Strategic Plan related to the goals for reimagining the high school experience.
	(55 5)	practices. In addition to action plans, develop timelines to be shared with Central Office staff and School Board members throughout spring 2017.		4



Name:	HSLT	Level: High School		
Area:	All Content Areas / Grade 12	Date: November 17,	2016	_
Curriculum I	Recommendation			
	nd redesign the 12th grade year that further super, and life readiness. (Cont'd.)	oports a student-centered, student-driven, and	goal oriented experi	ence focused on
Reason(s) fo	or Recommendation	Implementation Steps	Cost	Administrative Reaction
District, such as (CEO) and the F conversation rel Given the suppo develop a colleg students, with an 12th grade year. 5. Toward that driven, goal-orie college, career, anot limited to, diliteracy develop	cally, in the past several years, initiatives of the the Career Exploration Opportunities program Financial Literacy course, have begun the ated to the value of preparing for career and life. For such programming, a next step would be to ge, career, life readiness framework for all USCHS in emphasis on experiences and opportunities in the end, such a framework should offer student-ented experiences that promote preparation for and life. These opportunities may include, but are usal enrollment, online & hybrid courses, life ment (e.g., financial, civic, cultural, digital), and job shadowing, and internship experiences.			
				5



Name: Area: Curricu	Liz Cecelia, Russ Hoburg, Colin Syme, Tom All Content Areas	ı Yochum	Level: _ Date: _	High School November 17, 2016		
0-12.	the requirements, curricula, and feasibility of off	ering AP Semina				ents in grades Administrative
	n(s) for Recommendation		Implementati	on Steps	Cost	Reaction
igorous cochool has been ficially college Both to this department college Both for college Both for college Both for college f	St. Clair High School has a long tradition of offering ourses and programs. In addition to such offerings, the significant programs. In addition to such offerings, the significant programs. In addition to such offerings, the significant programs are member of the oard AP Honor Roll. This distinction is bestowed upon that increase both the number of AP courses offered as adent scores on AP subject tests. I point, all AP courses have been tied to specific this (e.g., AP Calculus or AP English). In 2014, the oard launched a program whereby interdisciplinary, opic" based courses may be offered. These courses, AP and AP Research, link closely to the High School's goal and challenging coursework that is customized, as interdisciplinary collaboration, and prepares learners and career. While an exam is a component of the ioned courses, school-based team projects and one as well as individual research and presentations are omponents of the work. The skills developed through priences offer students authentic and rigorous academic test.	and curricula of t addition, this con student and Distribility. 3. Visit local peef framework in ord and to ascertain pand scheduling per description. 4. Develop a list is responsive to so of expertise. 5. Report finding 1-3) to the High Standard whole for feedback.	mmittee of teach he AP Seminar nmittee will devict requirements or districts who ler to understand orogram and courspective. of proposed ser tudents' interest tudents' interest school Leadersheck.	ners to review the requirements and AP Research courses. In elop a synthesis of both related to the AP Capstone have adopted the AP Capstone dimplementation more deeply arse feasibility from a staffing minar and research topics that is and faculty members' areas by (i.e., Implementation Steps in Team and the faculty as a	Cost of substitute teachers (4 teachers for 2 days each = \$800)	Approved. Keeping current with the developments and changes in AP Coursework will be of benefit to our students.
	(Cont'd.)		ible will yield a	courses and/or Capstone spring 2017 curriculum rse development.		6



Name:	Liz Cecelia, Russ Hoburg, Colin Syme, Tom Yo	ochum Level:	High School		
Area:	All Content Areas	Date:	November 15, 2016	6	
Curriculum	n Recommendation				
2. Study the 10-12. (Cont	e requirements, curricula, and feasibility of offerint'd.)	ng AP Research, AP Semi	nar, and the AP Capstone	Diploma for stud	lents in grades
Reason(s)	for Recommendation	Implementa	tion Steps	Cost	Administrative Reaction
adopted (AP F Diploma has b students who s both AP Semi is important as	e two new courses that the College Board has Research and AP Seminar), the AP Capstone been introduced. This Diploma may be earned by score at a designated level on AP tests and complete inar and AP Research. Studying this diploma option is we consider both students' college and career and the diversified course offerings that the High provide.				7



	HSLT All Academic Areas um Recommendation op and pilot revised textbook and novel/text evalu	Level: High School Date: November 15, 2 ation and adoption forms and processes to be us		urses.
Reason((s) for Recommendation	Implementation Steps	Cost	Administrative Reaction
ago and doc current stan many chang courses hav general text forms that a 2. There is evaluation of the use of supplement	rent textbook adoption form was developed many years ses not represent evaluation criteria that matches our ndards. Since the time of the creation of the form, ges in the availability of materials and standards for we occurred. There is a need to revise this form for its, which also makes this a good opportunity to develop are specific to adoption of novels. It is a difference in the criteria that is need to be used for of textbooks versus single pieces of text such as novels. Inovels in the ELA courses vary from core novels, to tal reading, and choice of research novels. These uses the different standards for selection and approval.	 Administrative approval. Develop forms and procedures. Review forms with the each department for input. Use forms for any recommended book additions for the next two years beginning in the spring of 2017. Make adjustments and changes to the forms as needed. Make revisions and recommendation for final use in the Spring 2018. 	ed.	Approved.
				8



Name: Melissa Tungate Area: English Language Arts Curriculum Recommendation 1. Adopt Multimedia Journalism-Print Journalism for 11th	Level: High School Date: December 13, 2016 and 12th grade students interested in print journalism.		
1. The current Multimedia Journalism courses, which are not offered during the traditional school day, give students experiences in both broadcast and print journalism. Students currently write newspaper and television copy as well as shooting still photographs and video news packages. This additional focus area allows students who are considering print journalism as a career path an opportunity to develop those skills without having to learn videography or video editing. 2. In the past, we have offered a Journalism-Newspaper course that provided credit to students who worked on the school newspaper; however, because of low enrollment due to scheduling conflicts, the course has not been offered in several years. This addition to the MMJ course provides an additional option for students interested in creating the content for the <i>St. Clairion</i> , the student newspaper. Students in this MMJ course will focus on researching, writing, and submitting photographs for written news stories only. 3. Because this course is already scheduled outside of the school day, this addition should not create additional stress on the master schedule. Adding this course/focus area would continue providing more options to students that allow for flexible scheduling and provide real world experiences.	 Implementation Steps Administrative approval. Create unit plans and update Rubicon Atlas. Update <i>Program of Studies</i>. Begin offering in 2017-2018 school year. 	Cost	Administrative Reaction Approved. This will be a good addition to the current multimedia journalism course and provides creative choices and scheduling.



Name:	Melissa Tungate			
		Level: High School		
Area:	English Language Arts	Date: December 13, 2016		
Curriculur	n Recommendation			
2. Update	the English 12 research paper text options list	to include an additional title.		
Reason(s)	for Recommendation	Implementation Steps	Cost	Administrative Reaction
	nmendation is a follow-up to a spring 2016 tion to engage in a study process that yields an	1. Administrative approval.		Approved.
	election of English 12 research paper text options.	2. Update the English 12 research text option list to include an additional title.		
	I text options are needed to customize learning in the assroom and continue to promote student choice.			
This title will	provide the ability to differentiate novel selection			
	lent reading level and interest. This ability is portant for the English 12 Inclusion class; with			
respect to the	high school STEAM initiative; and, in an attempt to choice and learning within the overall course.			
	Ç			
_	sh 12 course moves from a focus on British the first semester to modern offerings in the second.			
	st comprised of texts from both areas of focus works e curricular model.			
	ving title has been studied and evaluated, per the			
	on steps identified in the original recommendation, ecommended for adoption to the English 12 research			
paper text op	tions: ious Incident of the Dog in the Night Time by Mark			
Had				10



Name: Melissa Tungate	Level: High School		
Area: English Language Arts	Date : December 13, 2016		
Curriculum Recommendation			
3. Move <i>Unbroken</i> by Laura Hillenbrand from supplement Front by Erich Maria Remarque from core to supplement	tal text to core text in Academic English 10 classes and mal text option.	nove All Quiet o	n the Western
Reason(s) for Recommendation	Implementation Steps	Cost	Administrative Reaction
1. Unbroken will be exchanged with All Quiet on the Western Front as a core text for the following reasons: a. Unbroken provides opportunities for cross-textual exploration as it connects to Night by Elie Wiesel, another memoir in the 10th grade curriculum that focuses on Wiesel's concentration camp experience during the Holocaust, and The Odyssey by Homer, another journey of perseverance and overcoming hardships. b. Unbroken allows for PLC interdisciplinary connections as World War II is studied in all three tenth grade history courses. c. Unlike All Quiet on the Western Front, Unbroken contains many historical photographs, adding to the study of an informational text as supported by the PA Core Standards. d. The themes throughout Unbroken are more age-appropriate and engaging for young adult readers as Louie's story teaches lessons about perseverance, resourcefulness, maintaining optimism, and finally forgiveness. While All Quiet on the Western Front is also a story of a soldier's experience, the text is sometimes less engaging for teenage readers due to its word choice and style. (Cont'd.)	 Administrative approval. Create unit plan and update Rubicon Atlas. Begin implementation Spring 2017. 		Approved. Finding compelling novels that engage students is always in line with the District's mission.



Name:	Melissa Tungate			
Area:	English Language Arts	Level: High School		
		Date : December 13,, 2016		
	Ilum Recommendation	al text to core text in Academic English 10 classes and me	ovo All Ouiot o	n the Western
	Erich Maria Remarque from core to supplemental		ove All Quiet o	iii tile vvesterii
Reasor	n(s) for Recommendation	Implementation Steps	Cost	Administrative Reaction
Nonfiction and Amer 3. <i>All Qu</i>	iginal adult version of <i>Unbroken</i> received many awards, the Los Angeles Times Book of the Year Award for n, Time Magazine's Best Non-Fiction Book of the Year, ican Library Association's Notable Book. iet on the Western Front will remain a supplemental ce for students interested in this subject matter.			
				12

students' needs.



Name:	Steve Miller	Level: High School		
Area:	Mathematics	Date: November 17, 2016		
Curriculu	m Recommendation			
1. Offer IB	Diploma Program students the option to take 0	Calculus or AP Calculus AB to fulfill year <i>two</i> of the IB S	L Curriculum.	
Reason(s)) for Recommendation	Implementation Steps	Cost	Administrative Reaction
students in the taught togeth Trigonometry recommenda who have str	of our implementation of the IB math curriculum, the two-year Standard Level course are currently ther with students in Honors Functions, Statistics, and by in year one and AP Calculus AB in year two. This attion aims to provide another option to IB students ruggled to be successful under this implementation. The mendation aligns with the High School Experience	 Administrative approval. Add the course offering to the <i>Program of Studies</i>. Prepare hybrid experience for supplemental Vectors unit. 	2 teachers x 12 summer flex hours	Approved.
Honors FST, curriculum of Honors Func content in IB remaining 6% students year covered in Ca	of the IB SL curriculum along with the curriculum of AP Calculus AB, and Calculus revealed that 61% of content in IB SL is covered by the curriculum in ctions, Statistics, and Trigonometry, 33% of the B SL is covered by AP Calculus AB, and the M has been taught as a supplementary unit for the IB of two. The 33% covered in AP Calculus AB is also calculus, so students could take that course in lieu of AB without missing any calculus content from the IB			
two students students as a Calculus inst	lemental unit that is currently taught to the IB year within the AP Calculus course could be offered to hybrid experience for those students who opt to take tead of AP Calculus AB. This is in line with High rrience goal of customizing time and schedule to meet			13



Name: Don Pickell/Sarah Shoemaker Area: Performing Arts Curriculum Recommendation 1. Formalize an Audition Only Orchestra Extra Curricular instrument in greater depth than can be offered in the trace		November 17, 2016	ng music and s	study their
Reason(s) for Recommendation	Implement	tation Steps	Cost	Administrative Reaction
 The District tagline includes an emphasis on <i>customizing learning</i>. An important component of customization is consistent reflection upon current curricular models. With the current offering of a single orchestra class, there is room to add an opportunity for advanced students to study more difficult and enriching music. Ms. Shoemaker has already been offering Chamber Orchestra to her students. This curriculum recommendation would formalize this as a course offering, allowing students to receive credit and a grade. The class would be offered as a 17/18 (after school) activity similar to Chanteclairs, allowing students to participate without putting extra strain on an already tight schedule. Credit and grades will not be applicable because this is an extra curricular offering. 	 Administrative approval. Update <i>Program of Studies</i> Summer work to develop or 		Conductor stipend to be determined.	Approved. The stipend will be evaluated based on similar programming. This recommendation is consistent with current vocal music practices.
				14



Name:	Don Pickell	Level: High School		
Area:	Performing Arts	Date : 11/17/16		
Curriculum	Recommendation			
	he courses Concert Band and Wind Symph create a single course, Jazz Ensemble 2.	ony to create a single course, Symphonic Band and combi	ne Jazz Ensen	nble 2 and Jazz
Reason(s) fo	or Recommendation	Implementation Steps	Cost	Administrative Reaction
individually bu 2. Renaming a	10 years, these courses have been scheduled t combined for concerts. Indicate the classes will allow for more ive to scheduling and course registration.	 Administrative approval. Update the <i>Program of Studies</i>. Meet with counselors and inform other staff of the change. 		Approved.
				15



Name: Lynn Kistler Area: Science Curriculum Recommendation 1. Redesign the Forensic Chemistry class to include a hybrotic science.	Level: High School Date: November 17, 2016 Drid experience and reflect the changed course by change	ing the name to) Forensic
Reason(s) for Recommendation	Implementation Steps	Cost	Administrative Reaction
1. To successfully "deliver excellence" and "customize learning" the best learning environment for each child is needed. This can be a challenge based on district resources and staff. A hybrid course has the potential to provide greater opportunities for success of the student. 2. Historically this course has included a very heterogeneous student population. While many students take the course as an additional fourth or even fifth science course, others take the course to meet the third science credit requirement and thus have limited science background. By transitioning the course to a hybrid approach, customization to better meet the needs of this diverse population would be achieved. 3. In any hybrid class, student learning should remain the focal point. As such, the course would be set up that all students report to class on specific days while on other days, on-line or other experiences would be expected. Those students who need individual attention or remediation or additional time to complete assignments would attend class during independent work days. (Cont'd.)	 Administrative approval. Update the <i>Program of Studies</i> and inform counseling of the changes to the course. Research and propose supporting course materials to facilitate the change to a hybrid approach. Provide release time for forensic teachers to observe and learn best practices from those currently developing hybrid courses. Provide Summer Workshop time for teacher to obtain training on new resources and set up the new structure for the course. Collaborate with key district personnel (e.g. Supervisor of Customized and Online Learning) as part of the ongoing development and implementation of the course. Provide opportunity for teacher to attend conferences or workshops that focus on heterogeneous student groups, lab setups, cost reduction options, and student learning objectives. 	Summer workshop 40 hours @ \$30.20/hour = \$1208 Textbooks/ digital resources: 100 @ \$100 = \$10,000 Conference/ workshops approximatel y \$2000	Approved. Providing flexible and customized experiences is in alignment with the District's strategic plan.



Name:	Lynn Kistler	Level:	High Scho	ol	
Area:	Science	Date:	November	· 17, 2016	
Curriculum	Recommendation				
1. Redesign Science. (Co	the Forensic Chemistry class to include a hybont'd.)	rid experience and reflect t	ne changed cours	se by changing the name	to Forensic
Reason(s)	for Recommendation	Implementa	tion Steps	Cost	Administrative Reaction
confusion since counselors bel However, Fore includes physicourse name of course content. 5. With the chadditional digitaccess to update content, and rehybrid approach in addition to disting. The promponent of the adopted text as forensic offering. This challenging for forensic science.	name of Forensic Chemistry has led to much e the inception of the program. Many students and ieve the class is an extension of chemistry. Ensic Science is a more encompassing field which cs, biology, geology, anatomy, and chemistry. The hange to Forensic Science would better reflect the family and the forensic chemistry course, tal resources will be required to provide student ted forensic practices and techniques, course elevant court cases. In establishing the course as a ch, students will be required to perform virtual labs other course requirements outside of the classroom urchase of digital resources will be a necessary the re-structured course. In establishing the course as a ch, students will be required to perform virtual labs other course requirements outside of the classroom urchase of digital resources will be a necessary the re-structured course. In establishing the course as a ch, students will be a necessary the re-structured course will be a necessary the re-structured course. In establishing the course as a ch, students will be a necessary the re-structured course and textured to perform virtual labs other course requirements outside of the classroom urchase of digital resources will be a necessary the re-structured course.				17



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Name:	Lynn Kistler	Level:	High School			
Area:	Science	Date:	November 17, 2016			
Curricu	llum Recommendation					
2. Pilot a	2. Pilot a full-year, interdisciplinary science course titled Bioinformatics.					

8. Continue the course preparation using Pittsburgh

book.

Supercomputing Center files and Bioinformatics Algorithms

9. Meet with counselors to inform them of the new course

along with course design, structure, and appropriate students.

1. Bioinformatics is a wide-reaching field of analyzing biological information. Careers in the areas of bioinformatics are on a steady rise and projected to grow in the future. Many high school students are not exposed to multidisciplinary concepts and so the opportunities are often sent to other parts of the globe.

Reason(s) for Recommendation

- 2. Recent news articles have tens of millions of dollars being dedicated to personalized medicine and big data initiatives. The University of Pittsburgh recently received grants for initiatives in personalized medicine. At the Frontier Conference recently held in Pittsburgh, it was announced that federal funding would be awarded for developments in multiple initiatives including precision medicine initiatives which directly relates to bioinformatics and shows the growing importance of this field.
- 3. The Next Generation Science Standards (NGSS) emphasize the use of models and the construction of explanations supported with evidence. The critical thinking skills developed as students work across multiple science disciplines will provide an opportunity for USC students to practice these skills.

(Cont'd.)

Implementation Steps	Cost	Administrative Reaction
1. Administrative approval.	Summer workshop	Approved. Bioinformatics is
2. Update the <i>Program of Studies</i> .	time (40 hours	an excellent example of
3. Provide summer workshop time for course and curriculum development.	@\$30.20 = \$1208)	interdisciplinary coursework and should provide
4. Provide teacher training. (Coursera, CMU, PSC, etc.)	Subscriptions to online sites	our students with an integrated
5. Setup subscriptions of online databases and bioinformatics sites.	and databases.	view of the world through science,
6. Designate the course as an Honors Level course.	Continued	technology, and math.
7. Specify a computer lab or laptop cart for access to computer resources.	teacher training.	



Name:	Lynn Kistler			
	•	Level: High School		
Area:	Science	Date : November 17, 2016		
Curricului	m Recommendation			
2. Pilot a fu	ull-year, interdisciplinary science course titled B	oinformatics. (Cont'd.)		
Reason(s)) for Recommendation	Implementation Steps	Cost	Administrative Reaction
5. Opportunition of the compeau. The projects, field students the compeau to the compeau to the compeau.	natics involves the use of problem-solving skills and ing skills drawing on their backgrounds in physics, and biology. Employers place a high value on workers strong logical thinking or reasoning skills. ities for collaboration and student involvement in es can be found with the Pittsburgh Supercomputing with Carnegie Mellon University Professor Dr. Phillip the Pittsburgh Supercomputing Center offers student d trips, and in-class support. Dr. Compeau offered opportunity to visit CMU and be involved in and sequencing data labs.			
molecular bid connections of biology, NCI relationships	the course include 21st Century STEM careers, ology, molecular basis of genetic diseases, of chemistry, physics, and math to understand BI and Blast web offerings, algorithms, evolutionary and phylogenetic trees, protein folding and and deriving significance from gene.			19



Name: Lynn Kistler Area: Science/Technology Education Curriculum Recommendation 3. Change the name of "STEAM Design Lab" course to	Level: High School Date: November 17, 2016 "Innovation Studio."		
Reason(s) for Recommendation	Implementation Steps	Cost	Administrative Reaction
 This course was written in partnership with South Fayette teachers and administrators. As each school introduced the course, each named the class to appeal to their particular students. South Fayette named the course Innovation Studio and Upper St. Clair named the course STEAM Design Lab. Many of the documents that are shared across district lines have different titles based upon which district generates the files. This has led to confusion for students in both classes. The STEAM acronym has been closely affiliated with the Upper St. Clair Summer STEAM Academy. While that may be an appropriate name for the Academy, it does lead to confusion for many students when it comes time to schedule classes at the high school. The name change would more appropriately indicate the multi-disciplinary content of the course. Having a common name for the course across districts would better align with the initiative to expand the program into more schools in the greater South Hills area. 	 Administrative approval. Update the <i>Program of Studies</i>. Meet with counselors and inform other staff of the change. 		A name change is approved. Further discussion needs to be held to determine a title that would more fully capture the essence of this course.
(Cont'd.)			20



Name: — Area:	Lynn Kistler Science	Level:	High School		
_		Date:	November 17, 2016		
	um Recommendation				
3. Change	e the name of "STEAM Design Lab" course to "In	novation Studio." (Cont'd.)			
Reason(s	s) for Recommendation	Implementation	ո Steps	Cost	Administrative Reaction
stem. Whithe Arts in contrecognize probably can and other positions. A commo "brand recognidustry par have enthus form a core industry par schools that Township, Control of the Arts in Control of the Arts i	AM acronym is not as familiar to the general public as alle it is certainly important to recognize the value of creating innovative solutions to problems, people may be that STEAM is an expanded version of STEM. This cuses confusion to students, parents, industry partners obtential school partners. On name across all partnering schools would lead to gnition" that could be leveraged to attract a variety of thers. Bethel Park and Mt. Lebanon school districts iastically joined South Fayette and Upper St. Clair to consortium of schools working together to serve thers as well as community partners. Other obvious might be in interested would be neighboring Peters Chartiers Valley and Cannon-McMillan. As each they would adopt the name of the course as well as curriculum.				
					21

(Cont'd.)



Name: Lynn Kistler Area: Science Curriculum Recommendation	Level: High School Date: November 17, 2016		
4. Support customization through the adoption of dig	ital resources for the AP Chemistry course.		
Reason(s) for Recommendation	Implementation Steps	Cost	Administrative Reaction
 Current chemistry texts have not been updated in over ten years. Current resources are outdated and are not compatible with 1:1 initiative goals. Since the last adoption of new texts in the chemistry curriculum, significant changes in texts and the introduction of technology learning platforms will meet the goal of the 1:1 technology initiative. In addition, the College Board revised the AP Chemistry curriculum and new resources reflect and support these updates. Newer resources provide individualized customization of learning that are capable of providing automatic and prescripting feedback. Benefits include: improved access to content, empowering students to direct their own learning through personal setting; self-paced tutorials, allowing students to receive individualized coaching; instantaneous feedback on formative assessments, modified to meet the needs of the individual stude providing individualized remediation; tutorials and simulations based on student needs, addressing multiple modes of learning and providing alternatives to teacher-centered instruction. 	2. Evaluate methods and costs to determine the most appropriate and fiscally responsible choice of resources. 3. Provide summer workshop time to become proficient in the utilization of the available course management software. 4. Evaluate the use of the online program to determine appropriateness for use in Honors and Academic Chemistry. 5. Update Rubicon Atlas.	50 licenses @ \$140 = \$7000 Summer Workshop time (40 hours @ \$30.20 = \$1208)	Approved.
3. Teachers are able to gather data regarding student performance. Charts summarize the most difficult problems an identify vulnerable students. The teacher may then use this information to adjust and customize instruction	1		22



Name:	Lynn Kistler	Level: High School		
Area:	Science	Date : November 17, 2016		
Curricu	ulum Recommendation			
	ort customization through the adoption of digital	resources for the AP Chemistry course. (Cont'd.)		
				Administrative
Reasor	n(s) for Recommendation	Implementation Steps	Cost	Reaction
learning n needed fo programs and math improvem http://ww nology to 5. Curren include us programs.	e management software will accommodate the mastery model by providing the tracking and testing materials in implementation of differentiated instruction. Similar have been successfully implemented in other science courses. Research indicates statistically significant ment in student performance and final grades. w.cengage.com/owlv2/downloads/Teaching with Tech or Engage Students and Enhance Learning.pdf at trends in secondary and post-secondary education se and application of online educational learning. Introducing such programs in high school provides with a better opportunity for success in college.			
				23



Name: Lynn Kistler Area: Science Curriculum Recommendation 5. Study the expansion of the robotics program to include	Level: High School Date: November 17, 2016 ude advanced robotics and robotics competitions.		
Reason(s) for Recommendation	Implementation Steps	Cost	Administrative Reaction
 The use of robotics in society and the workplace is ever increasing in the home, manufacturing, transportation, healthcare etc. Knowledge and understanding of the building and programming of robots as well as appreciating the impact of robots, personally and in society, are all benefits of the current robotics course. Students who elect to enroll in the robotics course come from very wide range of ability and knowledge including some who made and programmed robots as a hobby to those with no experience whatsoever. This diverse group provides a challenging environment for the course. The current VEX robots used in the program are limited in their abilities. Additionally, some students have expressed intere in participating in various robotics competitions both regionally and nationally. The addition of an advanced level robotics program as well as participation in competitions would meet the needs of the more experienced robotics student. 	 Explore various competitions for goals, requirements, and costs. Survey other local schools to assess the other robotics courses in the region. Evaluate the methods to deliver the instruction for an additional course given the limited space and teacher resources. 		Approved. Expanding robotics supports the District's strategic plan related to STEAM and redefining the high school experience.
			24



Name: Judy Bulazo Area: STEAM Curriculum Recommendation 1. Explore the potential for creating and developing an Inc.	Level: Middle School Date: November 9, 2016 Inovation Hub and related programming at Fort Couch Mid	ddle School.	
Reason(s) for Recommendation	Implementation Steps	Cost	Administrative Reaction
 The District's Strategic Plan focuses on STEAM as one of five major areas of emphasis for the next five years. Action plans developed through the strategic planning process have resulted in many recommendations including the expansion of STEAM programming and the related Innovation Hub concept. Community support for this type of STEAM programming is strong. The development of the Boyce Innovation Hub, made primarily possible through grant money and private funding, has been enthusiastically embraced by students and families. The early successes seen in the pilot of a design-thinking, problembased, expressive arts course at grades 5 and 6, currently at the heart of this Innovation Hub, has created the impetus to consider this type of programming for students in grades 7 and 8. 	 Administrative approval. Gather a team of representatives from all related areas. Conduct an idea generating and input session related to programming, needs, and uses for innovation spaces and programming. Determine potential spaces that fit identified needs and ideas. Seek funding. Make programming and space recommendations in the spring of 2017. 		Approved. Extending this concept from Boyce to Fort Couch is an excellent approach for exposing middle school students to the design and innovation processes.
(Cont'd.)			
			25



Name:	Judy Bulazo	Level:	Middle School		
Area:	STEAM	Date:	November 9, 2016		
Curricului	m Recommendation				
1. Explore	the potential for creating and developing an Inno	vation Hub and related pro	gramming at Fort Couch N	liddle School. (Cont'd.)
Reason(s)) for Recommendation	Implementat	on Steps	Cost	Administrative Reaction
creating K-8 creativity, introduced the exposing studies can chose the perspective. skills, but als	the action plans of the Strategic Plan center around STEAM experiences that promote the skills of novation, problem solving, collaboration, and logical hinking. These action plans are also centered on dents to these experiences and concepts so that they eir high school coursework from an informed Students should have the opportunity to gain great to be better informed about STEAM areas in order to ditional experiences and courses that they would like				
the middle so be integrated STEAM cond science and r will also serv coursework.	coration will provide an opportunity to examine how chool expressive arts courses and programming can into the Innovation Hub in a way that unites the cepts into coordinated programming. Our strong mathematics programming at the middle school level we as a solid support for this additional STEAM Integrated STEAM experiences will help students to ctions between and across these and other subject				
Couch that co experiences.	a variety of wonderful spaces that exist at Fort ould be used to provide areas for STEAM Consideration could be given to the development of ces to address different STEAM needs and s.				26



Name:	Amy Pfender and Melissa Garvin		Level:	K-12		
Area:	Student Support Services/Special Education	n	Date:	November 9, 2016		
Curriculum	Curriculum Recommendation					
•	1. Adopt the PCI reading program to expand customized curricular programs in reading in order to best meet the vast array of student needs across the continuum of special education classrooms.					
Reason(s) f	or Recommendation	In	nplementation	Steps	Cost Ac	dministrative Reaction
appropriate to different strates effective progra. With the imple Standards, the as an area of procontinuum of restudents. 2. PCI is a scientification of the standards.	meet students' learning styles through a variety of gies, support teacher instruction, and provide ess monitoring in a learning support classroom. Ementation of the Pennsylvania Common Core USCSD Special Education Plan identified reading rofessional development in order to review the reading programs available to special education entifically research-based curriculum designed to with developmental disabilities and autism who are	discuss: • Program impl • Additional m • Identification and the use of the second street in the second	ross levels will be lementation and laterial needs in of students to be for progress monitoreading programs to determine a	e taught using the program	Approximately \$5,000 over the 16-17 and 17-18 school years Ongoing costs to continue to support program implementation and expansion	Approved. Finding and evaluating resources for this population of students is commendable.
as students mas instruction, har and real-world instruction is in	the levels providing an effective scope and sequence ster each level. Students receive intense ands-on practice, and assessment on high-frequency words leading to increased word reading. Direct attentional with components providing ongoing tudent growth and mastery.					
Data is showing evidence that the implementation	Level 1 is being implemented in select classrooms. g effective student progress providing further the program is meeting students' needs and a full in is necessary in order to have availability to all students master levels at an individual pace.					27



Name:	Lauren Madia and Amy Pfender	Level : K-4					
Area:	Student Support Services / Counseling	Date : November 1, 2016					
Curricu	Curriculum Recommendation						
2. Pilot	2. Pilot the use of the Second Step social-emotional learning curriculum in Grades 1, 2, and 3 during the 2016-2017 School Year.						
Reason(s) for Recommendation		Implementation Steps	Cost	Administrative Reaction			
"Enhance prevent ar concerns, connective 2. All bui moving to 3. The As counselors classroom 4. Deliver National Macademic Programs 5. The K-	ost recent Strategic Plan for USCSD includes the goal to the implementation of programming and services that and respond to students' personal well-being and safety as well as those that enhance student relationships and ity to school." Iddings have increased frequency of classroom guidance ward full inclusion in the master schedule. SCA National Model recommends that elementary a spend between 35-45% of their time delivering guidance. Try of guidance curriculum in accordance with ASCA Model is tied to increased pro-social behavior, higher achievement: Research Supporting School Counseling 4 counselors should deliver a consistent program across so students share prior knowledge when entering Grade	 Administrative approval. Purchase materials. Each counselor will identify target areas for change / data collection at given grade level. Provide training and planning of lessons with materials / baseline data review. Each counselor will deliver lessons in her targeted grade level beginning in December 2016. At monthly department meetings, elementary counselors will have opportunity to collaborate on continued implementation and to review progress toward identified data points. If growth is shown in identified areas, move to propose full implementation for 2017-2018 School Year. 	Curriculum materials (\$1217.00) 1/2 day substitute for each counselor In Fall 2016	Approved. Providing elementary students with consistent curricular experiences in the area of social and emotional learning will be of great benefit in developing positive social behaviors in our youngest students.			
	Step, which is aligned with both CASEL Core cies and ASCA Standards, can be delivered consistently ldings. (Cont'd.)			28			
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Nama	Lauran Madia and Amy Dfondor				
Name:	Lauren Madia and Amy Pfender	Level: K-4	K-4 November 1, 2016		
Area:	Student Support Services / Counseling	Date: November 1, 20			
Curriculur	n Recommendation				
2. Pilot the	e use of the Second Step social-emotional learnin	g curriculum in Grades 1, 2, and 3 during the 201	6-2017 School Yea	r. (Cont'd.)	
Reason(s) for Recommendation		Implementation Steps	Cost	Administrative Reaction	
7. An empirical study found that the use of Second Step significantly increased feelings of safety (Social and Character Development Research Consortium. (2010) Efficacy of schoolwide programs to promote social and character development and reduce problem behavior in elementary school children. Washington, DC: Author)				29	