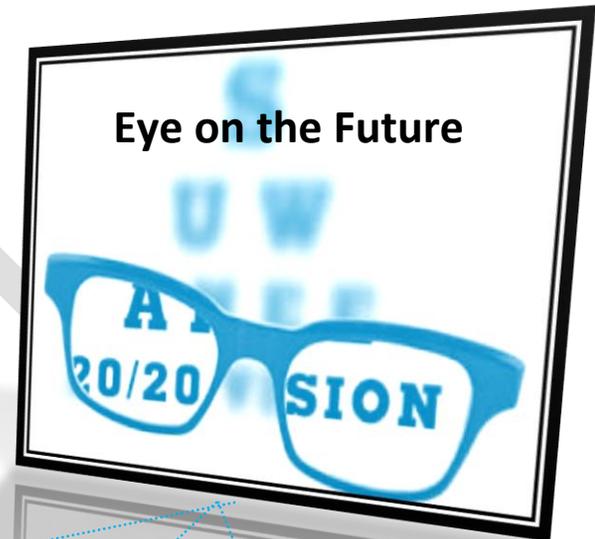
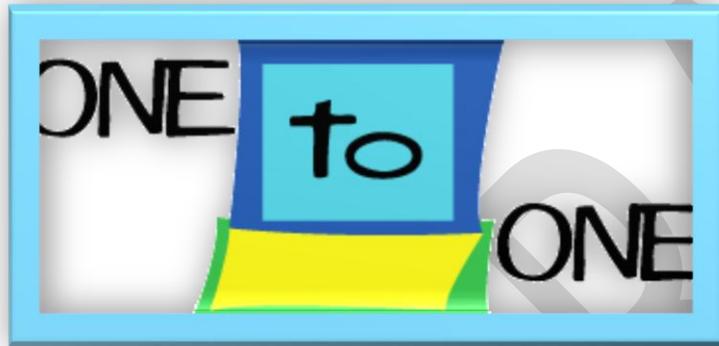


Vision 2020

A Vision Focused on the Future

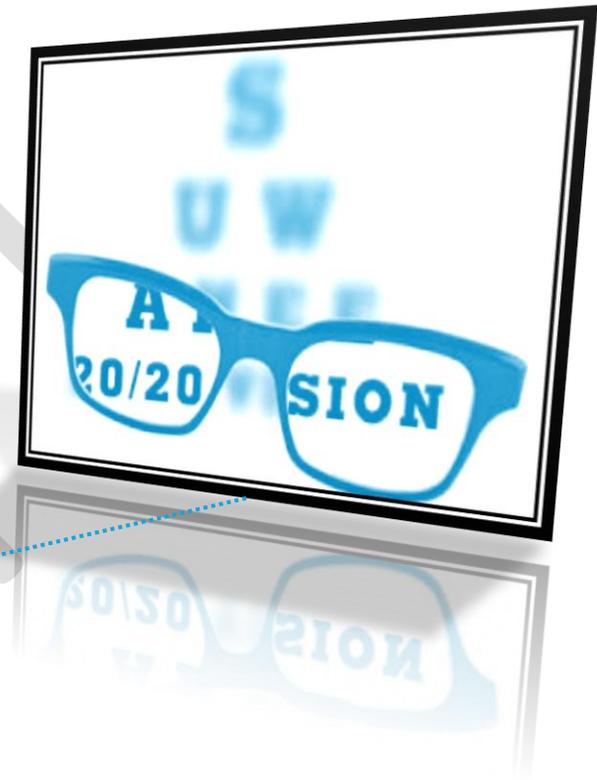
21st Century Skills for All Students in a 21st Century Classroom



ALLEGHANY

county public schools

21st Century Skills in a 21st Century Classroom



NEW TECH NETWORK – To be named by students

The Vision – 2020

Allegheny County Public Schools is transitioning from a traditional program of learning to a student centered, technology enriched and project based learning environment. The use of technology and technology resources in instruction enhances individual learning, student engagement, and results in students developing a personal motivation to learn. In other words, students are empowered to be self-motivated learners. Staff and students begin to focus on real world learning opportunities that employ 21st Century Skills. To reach our vision, our plan is to create a technology enriched project based learning environment through a partnership with the New Tech Network. The New Tech Center (to be named by students at a later date) will prepare our students for future successes in college, careers, and involvement in the community.

The New Tech Network innovative instructional program is designed to prepare up to 400 students for college and careers in the 21st Century and will be phased in over a 5 year implementation period. Twenty staff members will provide the opportunity for students to interact in addressing real world problems incorporating Virginia’s rigorous learning standards. Specific activities included in this proposal are the salary for the program director for 4.5 years, the New Tech Network fee for 4.5 years, staff development for 5 years, and renovation of existing classrooms at Allegheny High School.

The New Tech Network project based learning model emphasizes student learning through an intense examination of local issues and problems. The advantages for this model are numerous for the students and the community. Students are given real world local issues to examine through research, develop a solution or proposal and present this to an organization or group of community stakeholders. Virginia Standards of Learning are incorporated into the project based learning. Teachers become facilitators of learning for students and liaisons with the community in identifying projects for student examination. Students work with members of the community to better understand and address local issues. Consequently, students develop stronger ties to the community and are able to connect the relevance of their learning to “real life.” It is our desire that this commitment to our community will continue long past graduation. This model will also develop stronger ties between the school and the community by providing community stakeholders with a greater insight into the learning and making them a partner in student success. An example of possible scope and sequence of projects:

- Freshman year – focus on issues affecting the community;
- Sophomore year – focus on issues affecting the commonwealth;
- Junior year – focus on issues affecting the country; and
- Senior year – focus on issues affecting the world.

It is our vision and belief that students enrolled in the New Tech Center (to be named by students at a later date) project based learning program will benefit in many ways. New Tech Center (to be named by students at a later date) participants will demonstrate growth in higher order thinking skills. Project based instruction requires students to engage in critical and analytic thinking in a collaborative learning environment. As a result, intrapersonal and interpersonal skills, effective communication, and problem solving are developed and strengthened. Students are more committed to learning when they have a voice in the direction of the subject matter and instruction. They also strengthen ties with the community as local issues are the subject of instruction. The anticipated results are an improved graduation rate at Alleghany High School and to insure our students enroll in and complete career and technical certification programs, 2 year community college degree programs and 4 year college programs. Students will be well prepared for post-graduation opportunities as they have had experience with research, collaboration, teamwork, time management, and deadlines. Project based learning also prepares students for the career demands after formal education. Soft skills, known as agency, are strengthened and a commitment to the community is fostered. In addition, students experience real world issues in the course of instruction. This provides them with a more realistic view of life after high school and better prepares them to enter the workforce.

In the short term, progress toward the final outcomes of the New Tech Center (to be named by students at a later date) will be measured by the number of students who choose to return to the program each year. Data will be collected to compare New Tech Center (to be named by students at a later date) graduates with other school division graduates to examine graduation rates, post-secondary choices, and post-secondary completion. A college readiness assessment will be administered to sophomores and seniors to measure growth. Data will be collected regarding New Tech Center (to be named by students at a later date) student success on career and technical education assessments. Information will also be collected regarding community involvement in the projects selected for instruction, including overall impression of the curriculum process and finished products. The long range goal will be to measure our students who complete career and technical certification programs, 2 year community college programs and 4 year college programs and then are gainfully employed.

As stated previously, the use of technology and technology resources in instruction enhances individual learning, student engagement and results in students developing a personal motivation to learn. Students begin to focus on real world learning opportunities that employ 21st Century Skills by partnering with local businesses. Hence, students who graduate from the New Tech Center (to be named by students at a later date) will have the skills to immediately enter the workforce or complete a two year degree and then enter the workforce. Current businesses will have a skilled workforce to select from with the ability to communicate, collaborate, problem solve, and to think analytically. New business may re-locate to the Alleghany Highlands because

of the same reasons as cited above. The New Tech Center (to be named by students at a later date) will also provide the platform for students, local institutions, community organizations, local businesses and government agencies to collaborate and demonstrate the ability to work together. A skilled workforce and school divisions that prepare students for 21st Century Skills through a technically enhanced, project oriented, and problem solving instruction will promote the Alleghany Highlands as a viable location for economic development and growth.

Members of the education and governmental communities were the impetus for this proposal. Teachers were interested in a model of instruction that centered upon a technology enriched, project based learning environment that would assist in moving our schools from good to great. Teachers, administrators, School Board members and governmental leaders participated in executive tours to view the model in action. Everyone who witnessed the instructional model were favorably enthusiastic and supported it as an option for students.

It is our vision that this program will be a regional cooperative program open to neighboring school divisions. The school divisions invited to participate include those who are members of other regional programs – Bath County, Botetourt County, Buena Vista City, and Covington City with the addition of Craig County.

POSSIBLE CURRICULUM

Prior to the 2016-17 school year, a committee met to evaluate possible curriculums for the program. One of the proposed curriculums is below. The curriculum will be finalized with the input of staff and students during the Fall of 2017.

<i>GRADE</i>	<i>INTEGRATED COURSE I</i>	<i>INTEGRATED COURSE II</i>
Freshman	Biology & Health PE	English 9 & World History I
Sophomore	English 10 & Environmental Science	Design Multi Media I & Creative Writing Lab
Junior	US History & English 11	Design Multi Media II & Journalism
Senior	US Government & Economics & Personal Finance	English 12 & Communications

PROPOSED IMPLEMENTATION TIMELINE

Spring and Summer of 2017

- Staff – Introduction
 - Viewing of Most Likely to Succeed – High Tech High
 - “Redesigning” the High School meetings
- Students – Introduction
 - Viewing of Most Likely to Succeed – High Tech High (current 8th graders)
 - Meetings with students (current 7th and 8th graders)
- Parents – Introduction
 - Viewing of Most Likely to Succeed – High Tech High
- Community – Introduction
 - Viewing of Most Likely to Succeed – High Tech High
- Other
 - Application to be submitted to New Tech Network
 - Grant application to be submitted to Alleghany Foundation
 - Physical redesign of 10 classrooms (5 upstairs classrooms and 5 downstairs classrooms) – meeting with architect

Fall of 2017

- Staff
 - “Redesigning” the High School meetings
 - Pilot collaborative programs - project based learning
 - Appoint Director
 - training
 - Select staff – implementation for 9th and 10th graders
- Students
 - Viewing of Most Likely to Succeed – High Tech High (current 7th graders)
 - Meeting with students – implementation for 9th and 10th graders
 - “What do you want your high school experience to be?”
 - Assisting in designing the program
 - Naming the program

- Parents
 - Viewing of Most Likely to Succeed – High Tech High (current 8th graders)
 - Parent meetings
- Community
 - Viewing of Most Likely to Succeed – High Tech High (current 8th graders)
- Other
 - Complete physical redesign of 10 classrooms (5 upstairs classrooms and 5 downstairs classrooms) – meeting with architect

Spring and Summer of 2018

- Staff
 - Staff training
- Students
 - Selection of students (60 – 80 students per grade level)
- Parents
 - Continue parent meetings
- Community
 - Updates on the readiness of the program
- Other
 - Remodeling of 10 classrooms (5 upstairs classrooms and 5 downstairs classrooms) – tentative summer
 - Order furniture, equipment, supplies

Fall of 2018

- Staff
 - Implementation 9th and 10th grade
 - Staff training
 - Selection of 11th grade staff
- Students
 - Student projects, and feedback
 - Presentation Evening

- Parents
 - Continue parent meetings - feedback
- Community
 - Invite community to visit – feedback
- Other

Spring and Summer of 2019

- Staff
 - Staff training – 11th grade
- Students
 - Student projects and feedback
 - Presentation Evening
 - Selection of students (60 – 80 students per grade level)
- Parents
 - Continue parent meetings - feedback
- Community
 - Invite community to visit – feedback
- Other

Fall of 2019

- Staff
 - Implementation 11th grade
 - Staff training
 - Selection of 12th grade staff
- Students
 - Student projects, and feedback
 - Presentation Evening
- Parents
 - Continue parent meetings – feedback
 -

- Community
 - Invite community to visit – feedback
- Other

Spring and Summer of 2020

- Staff
 - Staff training – 12th grade
- Students
 - Student projects and feedback
 - Presentation Evening
 - Selection of students (60 – 80 students per grade level)
- Parents
 - Continue parent meetings - feedback
- Community
 - Invite community to visit – feedback
- Other

Fall of 2020

- Staff
 - Implementation 12th grade
 - Staff training
- Students
 - Student projects, and feedback
 - Presentation Evening
- Parents
 - Continue parent meetings - feedback
- Community
 - Invite community to visit – feedback
- Other

PROPOSED BUDGET AND FUNDING

New Tech Center (to be named by students at a later date)			
Proposed Operating Budget		Possible Funding	
New Tech (4 1/2 years)		Funding	
	Budget		
Director salary and benefits	\$405,000	Additional Funding in FY 2017	\$388,000
New Tech Network fees	\$470,000	ERATE reimbursement	\$130,000
Staff development	<u>\$105,000</u>	Medicaid funding	\$242,000
Total Cost (Operating)	\$980,000	County	\$250,000
		The Alleghany Foundation	<u>\$250,000</u>
		Total	\$1,260,000
AHS Upgrades			
Removals of walls (6) and Lab	\$250,000		
Furniture	<u>\$30,000</u>		
Total Cost (Infrastructure)	\$280,000		
Total Cost	\$1,260,000		
Yearly Costs 2022-23 and beyond			
ECHO licenses	\$20,000		
Director Salary Benefits	<u>\$100,000</u>		
Staff development as needed			
Total Cost	\$120,000		