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Technology Implementation

Technology itself is neither good nor bad, nor can it dictate educational goals. Before embracing any new technology, it is important to declare the educational goals or learning targets and to demonstrate how a particular technology can help to achieve them. Therefore, the narrative summary that follows along with the corresponding action plan will map out the implementation of technology to meet the needs of students enrolled in Language Arts classes. The narrative will focus on research that promotes efficacy and that documents how reading and other aspects of literacy can be achieved across grade levels and among diverse student populations within the district.

The International Society for Technology in Education (ISTE), along with the New Jersey common core technology standards have been important elements in researching and developing the action plan to implement technology into Language Arts classrooms. The Common Core State Standards (CCSS) for English Language Arts (ELA) include statements and standards that embed technology into the curriculum. Students need to have the "necessary technology skills outlined in these standards to demonstrate mastery of CCSS for ELA that require them to use technology for a specific purpose" (Kopp, 2015, p. 46). The action plan outlined in this document is aligned to Common Core ELA standards for reading, writing, speaking, and listening that are geared towards reaching regular learners, special-education learners, English language learners, and those learners who are considered at-risk. The action plan will also focus on measuring success in three areas (1) student performance based on district technology and CCSS standards; (2) improving student exam and SAT scores; (3) evaluate teacher performance and (4) recommend professional development training based on student performance. Feedback from the three areas will be used for revision of and an improved curriculum that focuses on the appropriate integration of technology.

Technological and Curricular needs of the General/Regular Student for ELA

Almost 100 studies conducted during the 1980s and spanning much of the millennium by Roblyer and colleagues, concluded that "computer applications have an undeniable value and important instructional role to play in the classroom" (Picciano, 2011, p. 97; Roblyer & Doering, 2013). The rapid changes in technology combined with the Common Core State Standards that districts are expected to adhere to require the establishment of action plans to review, implement and evaluate the progress of learners in the area of ELA. The intelligent use of advanced technologies seeks to address the district's and school's capabilities to implement various initiatives to integrate technology for the improvement of test scores and the overall personal, academic, and college/career development of students for the Language Arts subject. Defining such a role for the ELA teacher must go beyond student achievement to directly penetrate their teaching ability, content knowledge, and technological competencies through professional development.

The implementation of this action plan will focus on equity, fairness, costs associated with technology selection and use, and will include an evaluation mechanism for how success will be measured. The tools for building literacy (e.g. Blogging, Edmodo, Wordle, Wordsift, Visual Thesaurus and Audacity) will support literacy development for the general student (Glenburg, Goldberg & Zhu 2011; Dalton & Grisham, 2011). At the instructional level, the ASSURE model assist teachers with providing effective instruction as its name suggests and

provides feedback that incorporates Gagne's nine events of instruction (Reiser & Dempsey, 2012, p. 210) - these will be outlined in the action plan for the evaluation phase. A constructivist theoretical approach and Universal Design for Learning for ELA is to be incorporated into the curriculum. Constructivism draws on the vast experiences of the learner. "A constructivist theory of learning that stresses the importance of experiences, experimentation, problem-solving, and the construction of new knowledge" evolved from Dewey, Piaget, Bloom, Gagne, and Vygotsky (Picciano, 2011, p. 97). The traditional approaches to teaching reading and writing are insufficient to meet the Common Core standards. The ISTE and state technology standards are important because the Common Core standards for English Language Arts include statements with regard to technology and digital resources (Kopp, 2015). Each grade level has different standards for English Language Arts that directly mention the words digital, multimedia, and or/technology. See anchor standards below as reported by Kopp (p. 46):

| Standard | Anchor Standard |
|------------------------|--|
| Reading Informational | CCSS 7 – Integrate and evaluate content presented in diverse formats |
| text and reading | and <i>media</i> , including visually and quantitatively, as well as in words. |
| literature | |
| Writing | CCSS 6 – Use <i>technology</i> , including the Internet, to produce and |
| | publish writing and to interact and collaborate with others. |
| Writing | CCSS 8 – Gather relevant information from multiple print and <i>digital</i> |
| | sources, assess the accuracy and credibility of each source, and |
| | integrate the information while avoiding plagiarism. |
| Speaking and listening | CCSS 5 – Make strategic use of <i>digital</i> media and visual displays of |
| | data to express information and enhance understanding of |
| | presentations. |

Table 1: Technology-related Common Core State Standards for English Language Arts

With the implementation of the Common Core State Standards—there is also the need to develop student competencies in the six ELA core areas: reading for meaning, compare and contrast, inductive learning, circle of knowledge and vocabulary's CODE (Silver, 2012). The

student is solely responsible for his own learning. The teacher and the school coach, direct, and support the student so that he knows how to assess and improve his own work. This can also be accomplished by directly fusing individualized learning with 21st century tools and contexts. It is also necessary for the any educator to become familiar with the six levels of Language Proficiency developed by WIDA. The general, as well as exceptional students need to be appropriately measured on "CCSS assessments, the ACT, SAT, and on other respected assessments" (Taylor, Watson, & Nutta, 2014, p. 50). The transition does not take long for the student to move from learning to read and to strive toward reading to learn. If gaps exist, then practical strategies should be adopted and implemented for engaging normal, special-needs, diverse, at-risk and physically-challenged students—and scaffolding them to success with CCSS. According to Kopp (2015) the CCSS document notes this:

"New technologies have broadened and expanded the role that speaking and listening play in acquiring and sharing knowledge and have tightened their link to other forms of communication. Digital texts confront students with the potential for continually updated content and dynamically changing combinations of words, graphics, images, hyperlinks, and embedded video and audio" (CCSSO 2010, College and Career Readiness Anchor Standards for Speaking and Listening).

However, students are influenced by what they have "access to read", but they also want to have "a choice over what they read" (Calkins, 2012, p 50). Students want some level of independence for how they learn and express themselves, in spite of the structure determined and set by CCSS. For example, many students are fascinated with the word play and social messages conveyed through rap, as a form of modern lyrical poetry. A teacher can begin at that point and see how s/he can bridge such interests to real-world applications. Even though, CCSS defines what students should know, it doesn't command how teachers should teach. Keeping that perspective in mind, the six goals of this action plan are as follows:

Ensure that students are able to comprehend and critique information as they use technology and digital media strategically and capably through teacher coaching and modeling for grades 4-6. (CCSS Anchor Standards 5 through 8, ELA W2-5, W7-10 and ISTE Standards for Technology Operations and Concepts; Standards 1-6)

- Improve students reading and literacy levels by 2% for at-risk students and help them to utilize visualization as a powerful bridge between experience and abstraction for grades 7-9.
- Center the curriculum, using technology to promote project-based learning initiatives for grades 10-12 (ELL, at-risk, general and special-needs) that parallel those faced by adults in real-world settings (Gordon, 2000).
- 3. Student preparation for online testing and college-career readiness (grades 9-12+) for all students (CCSSO, 2010).
- 4. Ask and answer questions to demonstrate understanding of a text, referring explicitly to the texts as the basis for answers (K-3).
- Students at all grade levels will reduce spelling errors and increase their awareness of the existence of their errors when preparing text using word processors.

With the appropriate tools, students can become independent readers and writers. Therefore, identifying and understanding goals helps teachers guide students' use of technology to focus on key priorities. New and modern technologies according to researchers when properly integrated can provide "valuable educational leverage on understanding goals that would be difficult or impossible to achieve otherwise". Acquiring such technologies can be a synergistic educational focus for the teacher to help the student (Wiske, 2005, p. 50). For grades K-3, the technology software package Noodleverse will be employed. This web portal won the "Parents' Choice Award in 2014" for providing interactive multimedia online activities and games to assist K-3 learners to practice core language arts concepts (Maine Learning Innovations, 2014, p. 57; Ash 2013). It assists these students in boosting their confidence as they become more motivated and comfortable with reading, writing and working independently. Other applications for inclusion in the action plan for K-3 will include Funbrain reading and Kidspiration which are popular concept-mapping software (Roblyer & Doering, 2013; Kopp, 2015). Students can use these programs to generate a hierarchical map of key concepts to be explored for a research paper and link those concepts with labels that demonstrate their conceptual relationship. An intensive reading intervention program designed to meet the needs of students whose reading achievement is below the proficient level. For grades 4-12, Read 180 will be utilized to target atrisk (esp. economically disadvantaged), ELL, diverse, and students with disabilities to assist with improving their literacy levels, exam grades, graduation, readiness for college, and future careers.

Assistive Technologies for Special-Needs Students

In the classroom, there is never a one-size-fits-all approach to educating learners, whether in ELA or another subject. Students, from the gifted, to those who require one-on-one assistance for daily life skills, such as eating or communicating have varied needs. To excel beyond the standard curriculum, teachers must require meaningful, relevant, and challenging projects and assignments from these students. Technology provides extensive as well as ready access to information and subject content. Kopp (2015) highlights that: "Specialized hardware and software can benefit students with special needs, whether those needs are cognitive, social, physical, behavioral, or in any combination. Devices that aid in computer function and facilitates communication while supporting instructional delivery can and should exist in the classroom at the student's learning level" (Kopp, 2015, p. 140).

Software tools

We will utilize assistive technology tools for helping students with special needs, disabilities and those with unique learning challenges. These assist special needs students to successfully contribute to class discussions and interact with their peers at the proficiency scales for ELA Common Core State Standards - using technology such as Raz Kids can assist with helping students become comfortable and flexible with reading literature and from informational text" (Marzano, Yanoski, Hoegh & Simms 2013, p. 83). According to literature by the Schwab Foundation for Learning (2000), assistive technology tools are items, equipment, or systems that "work around or compensate for learning difficulties" (p. 4). Research suggests that these tools "can be used to personalize lessons and can provide skills enhancement to each child" (Zorigian & Job, 2010, p. 1). Where or whenever there is a learning need, there is technology that could be made readily available to assist with such a need. Student's age and grade levels must also be considered as an important factor when implementing technology in the ELL classroom. Specialneeds students in kindergarten may have different learning challenges than fourth grade specialneeds students (Federicks, 2005). The district wants schools to locate and access more-thanadequate technology tools that can assist such students with reading, writing, listening, speaking and building their critical-thinking skills.

One of the most widely used tools for students with communication challenges is wordprocessing software. Microsoft Office Suite and Google Drive are recommended. Sweeney (2010) offers strategies for using Internet resources, online forums, word processing, and other technologies to support writing instruction. With texting, social networking, and email as avenues to interact with others, both complex and simple word processing can provide students with speech or writing disabilities a means of sharing written language. Students can also use Google Drive, if they have a Gmail account, this allows them to work interchangeably and share documents, spreadsheets and presentations with the teacher and peers. *Chrome Toolbox AT* and *Google's Accessibility* site provide lots of information about Google-related accessibility, accommodation, tools, and resources for educators and students.

Hardware tools

For students who lack typing skills, teachers may acquire alternative keyboards. According to researchers, whether students need larger key pads, or students who can type with only one finger or hand, such tools are helpful for struggling students to interact effectively with traditional key placements (Lindberg, Flasch Ziegler, & Barczyk, 2009). Different layouts are available such as QWERTY, Dvorak, Colemak, and Maltron (Kopp, 2015). On-screen keyboards allow users to type using their mouse--simply point and click. These keyboards also work with a touch screen or alternative mouse, such as a joystick or electronic pointer. Students with limited mobility may benefit from this kind of typing mechanism. Alarm and alerting technology, infrared communication technology and telephone technology can be acquired for the hearing-impaired student (Hersh & Johnson, 2003). Special devices that will be outlined in the action plan to enhance learning opportunities for students who are visually impaired include

• Screen enlargers - these serve as magnifiers for computer screens

- Screen readers these 'read aloud' everything on the screen, from text to graphics to control options (Kopp, 2015).
- Braille displays these special keyboards convert on-screen text into Braille text. As each line of Braille is read, the system can be refreshed or programed to read the next line (Kopp, 2015).
- FM or Frequency modulation systems, Infrared, personal amplification combined with closed captioning - can be used for 1:1 communication with by the whole room or by individuals and some tools can be permanently installed states Hersh & Johnson (2003).
- Teachers should have classrooms with "independent student computer workstations, handheld devices, Chromebooks, and interactive whiteboards (IWBs) for students to play and have fun" while reinforcing essential skills, both in the classroom and at home (Kopp, 2013, p. 77).

Reading and Writing problems

Other technologies include speech-to-text devices and portable communicators—that support visual cues—for students with hearing difficulties. Early research indicated that this assistive technology, "helps students with learning disabilities and other struggling writers compensate for problems with basic transcription" (MacArthur, Graham, & Fitzgerald, 2006, p. 255). Technology tools such as light signal alerts and personal FM listening can keep such students more actively involved in the general classroom when instruction is directed or centered on ELA content. Useful apps include *Voicethread* (captures voice and photos during project collaborations) and *SoundingBoard*, which are able to convert Apple products into portable communicators that include pre-loaded options as well as personally created boards with

symbols or pictures to accommodate specific needs (e.g. common expressions, so that students are able to communicate at all levels and to a variety of individuals including their parents and peers). Portable communicators can support students' literacy skills. Teachers can pre-record stories or comprehension questions while students follow along in books, listening and practicing to write independently while completing tasks using material that was prepared for them. Read 180 focuses on helping special-needs students and provides a clear path for focused and targeted instruction for ELA and digital literacy by facilitating whole-group, small-group, modeled and independent learning opportunities.

Technology for English Language Learners

Technology tools and devices not only enhance learning opportunities for students with disabilities, but they also can help non-English speakers learn English. In an article written for the New York State United Teachers (NYSUT) publication, *Educator's Voice*, authors Elizabeth Brozek and Debra Duckworth summarize,

"English language learners can benefit particularly from the reinforcements of vocabulary and concepts through pictures, graphics and video. They also benefit from being able to use technology to express themselves. BrainPOP and Renaissance Learning are excellent tools that can be used to help ELL students express themselves and build their vocabularies along with video technology such as NBC Learn. These modern technologies helps English language learners find their voice, which can help in easing the transition to a new language" (2011, p. 15).

Digital translators, English-learning software, and interactive reading and language games, suggests Kopp, "can provide substantial support for students whose first language is not English" (Kopp, 2015, p. 134).

The application of Common Core State Standards for ELLs will need to be partnered with language proficiency standards to ensure that ELL students are becoming proficient in and literate in English (Common Core State Standards, n.d). Lafond (2015) states, that the ELL student should be involved in learning and taking part in learning which allows him to have hands-on, student learning experiences. Continuing, Lafond also recognizes that because the CCSS ELAs are written to cross disciplines, a school-wide effort can be given to enhance the learning opportunities for ELL students. In order to challenge students to be active learners, teachers need to create a supportive environment that allows students to take risks, explore reallife situations, and to problem solve (Lafond, 2015). Technology can play an important role in affording English language learners the ability to reach the CCSS; however, based on the number of electronic resources and devices to choose from, teachers may get caught up in using technology for the sake of using technology and forget to direct their attention on the instructional objectives of lesson planning for English language learners. Hurst (2007) asserts that teachers should be careful not to get too caught up by societal pressures to have the latest technology gadgets in their classroom (as fashion accessories) if those gadgets do not support the desired learning outcomes or benefit ELL students (p. 167). Michael Morgan (2008) cautions teachers to not overload students with excessive digital-powered technologies. Morgan recommends a three-step process for implementation of technologies:

- 1. Investigate the programs and resources to be sure they are suitable for classroom use and are appropriate to the students' English-learning levels.
- 2. Identify how technology is beneficial for English-language learners.
- Create English language learning objectives, and use technology as a means to an end, not as an end in itself.

Text-to-speech technology is of particular benefit to ELLs since they can use it to gain individual support in their studies and to learn proper English pronunciations of English words and phrases (Kurzweil Educational Systems, 2004). Below are examples of technology that are recommended by the researchers for English-language learners.

- Electronic Translators (only requires a headset with a microphone)
- Electronic Dictionaries and Encyclopedias (Encyclopedia Britannica, Gale: Testing & Education Center)
- Digital Learning Media (tools for supporting reading and listening comprehension: smart pens and reading pens)
- BrainPOP supports mobile learning apps for Android, Kindle and Google Chrome users
- Outlining and Graphic Organizers (technology to support ELL instruction)

Hardware, such as interactive whiteboards, document cameras, and software, such as Microsoft Photo Story, Read 180, and social networking such as Edmodo, also support ELLs with devices and programs to help develop English language skills, including reading, writing, speaking, and listening (Brozek & Duckworth, 2011). Teachers should become aware that where there is a need and a technology should be sought out to fulfill it. Students with special needs are no exception, states Kopp (2015) to the technological benefits that schools or a district can offer students (p. 141).

Technology for At-Risk Learners

A student might be defined as at-risk for many different reasons. At-risk students typically experience life problems that cause concern in regards to their success in school (Darling-Hammond, Zielezinski & Goldman, 2014, p. 1). These problems could be

homelessness, teenage pregnancy, health issues, violence, migrant status, learning disabilities or attendance issues. Any combination of these factors could prevent a student in the k-12 system from completing school. Much research has taken place regarding reading levels and at-risk students. According to Ball, Finch and Gettinger (2014), research indicates a connection between reading and behavioral issues in such students. Research from Stanford found that atrisk students learn more when they use technology to create content themselves, rather than just being recipients to content designed by others" (Darling-Hammond, Zielezinski & Goldman, 2014, p. 9). There are a number of approaches that can be used productively by teachers to reach at-risk students. Research as reported by Darling-Hammond et al. (2014) has indicated three important variables relating to at-risk students successfully learning new skills for ELA and improving their digital literacy abilities. These are:

- Interactive learning;
- Use of technology to *explore and create*, rather than to *drill and kill*; and, most importantly,
- The right blends of teachers and technology.

While the authors of the Common Core States Standards (CCSS) in English language arts sought to define what students, even at-risk students, needed to know and be able to do in the 21st Century, it is not clearly evident that they envisioned that technology could be at the center of reaching all learning levels found in a classroom. Some students can be expected to develop relatively concrete knowledge and skills, but how is the success of these competencies effectively measured? All teachers, not just ELA teachers, should have literacy integrated in their content area. Some of these students may not have a particular interest in ELA but that does not mean that they cannot be reached through other content which may interest them. Vicki

Phillips and Carina Wong (2010) provided a biological analogy for that idea: "Think of literacy as a spine; it holds everything together. All branches of learning connect to it; this means that all core content teachers have a responsibility to teach literacy" (p. 41). Marzano, et al. (2013) discusses that the ELA standards were written in two grade-level sets, k-5 and 6-12. The 6-12 standards were then broken down further to cover ELA standards and standards for literacy in history/social studies, science, and technical subjects (See Figure 1). The design of the 6-12 standards was intended to extend ELA lessons throughout the entire school building and to "facilitate a comprehensive school-wide literacy program" (Marzano, et. al. 2013). While the CCSS were written with the "fewer, clearer, higher" philosophy in mind, these internationally benchmarked standards left teachers wondering how they would ensure that the students in their classrooms would be successful with the new grade-level standard expectations. At-risk students were already behind with the old standard evaluation systems across the country, and now with the higher-level learning expectations, they seemed to be at another disadvantage. Surely, at-risk students will benefit from the way the current ELA CCSS are written in regards to schools focusing on building and/or enhancing school-wide literacy programs.



Research has also shown that technology integration is suitable across the educational plane and therefore can be a tool used to help struggling learners. There are many programs available to help students with ELA deficits; however, educators and parents must remember that these programs partner with classroom lessons, and are not to take the place of the teacher in the classroom or at home. Programs such as Noodleverse Learning for students in kindergarten through third grade help students develop skills in multiple areas of deficiency such as spelling, phonics, writing, comprehension, and vocabulary. This program allows students to review and practice various skills needed to become successful ELA learners. Read 180 focuses on helping students in fourth through twelfth grade. Read 180 follows a foundational, strategic and disciplinary reading strategy which employs adaptive technology that allows at-risk students to begin learning where they are and continue learner at their own pace. The program also supplies students with varied reading texts, and helps teachers with differentiated learning lessons. All of these areas intertwine with each other. Therefore when an at-risk student uses this program, he/she becomes more successful in the ELA area.

Professional Development

Meeting the needs of a diverse student population, teacher preparation will require systematic changes from the traditional approach (Wade, Bohac & Platt, 2013). As stated by Frazier (2012), it is easy for teachers to assume that the way they have been teaching for years is perfectly acceptable. However, with the implementation of the Common Core State Standards, educators should expect to adjust their teaching methods to meet the needs of students and show student knowledge growth assessing the CCCS through the state testing system. The technology coordinator will need to initiate the process of professional development for teachers using hardware and software in their classrooms to engage all students in the learning process. Changing the way teachers teach and use materials will require buy-in from the teachers and administrators, along with providing adequate resources for teachers to learn about proper technology implementation. Because this plan focuses on some specific software programs, it is encouraged that the district seeks out professional development opportunities provided by some of those vendors. For example, works with school districts to customize on-going learning opportunities for teachers (Scholastic, 2015). Haslam, White, and Klinge (2006) reported a statistically significant effect of READ 180 on the Texas Assessment of Knowledge and Skills Reading Test. White, Haslam, & Hewes (2006) reported similar results in Phoenix. They also work side-by-side with educators introducing them to the program, differentiating lessons, and providing them with the opportunity to dive into the teacher resources available not only through the Read 180 program, but also other resources available by Scholastic. While companies will offer professional learning opportunities for districts that purchase their products, the majority of professional development will take place at the school level.

There are four recommended phases to technology professional development creation. Phase 1- Establishing needs and creating a plan for professional development implementation (allows for a base-line knowledge assessment of current teacher technology skills); Phase 2: Professional Development Workshops (allows for teachers to explore the new technology); Phase 3: On-going reflections and support (allows for teachers to reflect on uses of technology along with continual planning/adjustments to implementation to enhance learning); and Phase 4: Reflective discussion (allows teachers to acknowledge their adjustments to teaching with technology) (Chikasanda, Otrel-Cass, Williams, & Jones, 2013). Overall, professional development should allow for teachers to use technology as a natural part of the curriculum (Frazier, 2012). It is the district and school building's responsibilities to make sure all teachers are receiving proper professional development to ensure successful technology implementation.

Technology Action Plan Chart

The following Action Plan chart provides an in-depth look at the goals, objectives and action steps needed to successfully

implement software and hardware technology that will be used to enhance student learning for English Language Arts.

| Action Plan | | | | | | | | | | | |
|--|--|---|--|--|--|---|--|--|--|--|--|
| School: | | | Principal: | | | Date | Submitted: | | | | |
| Section A –Describe your | goal, target audience, and identify | which need(s) tl | ne goal addresses. (Re | fer to prior data analysis re | egarding needs) | | | | | | |
| Goal #1 | | Ensure that st and capably the | udents are able to con arough teacher coach | mprehend and critique int ing and modeling for grad | formation as they use des 4-6. | e technology and di | gital media strategically | | | | |
| Target Audience | | Students in ge | eneral education, Eng | lish Language Learners a | and students with spe | cial needs | | | | | |
| Identified Needs | | Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative mear and analyze how specific word choices shape meaning or tone. CCSS.ELA-LITERACY.CCRAR.5: Analyze the structure texts, including how specific sentences, paragraphs, and larger portions of the text (e.g., a section, chapter, scene, or st relate to each other and the whole. CCSS.ELA-LITERACY.CCRAR.6: Assess how point of view or purpose shapes the content and style of a text. | | | | | | | | | |
| Outcomes/Objecti | ACTION STEPS – Section C | | IMPLEMENTATION INFORMATION | | | | | | | | |
| ves Section B- The outcomes must | - Descriptively list the action to ensure progress toward your goal. Action steps are strategies and interventions which should be research- | Section D– For required resou source with ide will evaluate th | ection D– For each of the Action Steps you list, give timeline, person(s) responsible (for management, coordination and monitoring), equired resources (infrastructure- services, physical and human resources), projected cost(s)/funding sources, evaluation data ource with identified instrument/methodology, and principal strategies and responsibilities. (For Evaluation Strategy, define how you rill evaluate the action step.) | | | | | | | | |
| be measureable and directly aligned to Goal. <u>This</u> <u>outcome/objective</u> <u>must be one of your</u> <u>technology related</u> <u>outcomes/objective</u> <u>s from Project #4 for</u> <u>this Goal</u> | based where possible and may include professional development, technology, communication, and parent and community involvement initiatives within the action steps. (Use as many steps as you need for each Outcome) | Timeline (begin-end date for each step) | Person Responsible for coordination and reporting – point person | Required Resources (People, technology, furniture, etc.) | Estimated Projected Cost(s) and Funding Sources | Evaluation Data Source and Instruments used | Principal's Strategies and Responsibilities to insure success for each step | | | | |
| Outcome/Objecti ve #1- IN THIS BOX - this outcome is only related to Goal 1 | Technology Coordinator and the members of the technology committee will purchase <u>Read 180 Next</u> <u>Generation</u> program grade-wide license for grades 4-6 | August 2016 | Technology Coordinator | 60 laptop computers and two computer carts | Read 180 Next Generation grade-wide license (unlimited teachers per student) \$2000 Total for grades | Tech Coordinator and committee consulted published research about the | TC will insure that the IT staff has connected the computers to the district's network and installed all the necessary software | | | | |

| | | | | 4-6 = \$6000 30 laptop computer at \$300 each. Total = \$9000 Two laptop carts at \$2000 each. Total = \$4000 For Special Education: 20 tablets \$500 each Total = \$10000 Tablet cart for \$900 Grand Total = \$29900 Funding will derive from district's | effectiveness of such programs. They also consulted with other districts utilizing the program for similar goals. | |
|---|---|--|--|--|--|--|
| | | Professional | | budget, E-rate discounts and Technology grants <u>http://www.eduto</u> pia.org/grants- and-resources | | |
| Provide professional development training for English teachers for grade 4-6 | September, 2016 (during in- service days) | training by Read 180 Next Generation representatives provided as a complementary with the purchase of the program | 2 computer labs in the Middle School | n/a | Questions and observation during the training and teacher's feedback questionnaires | TC and Department Supervisor will insure attendance and visit the training site. Then evaluate teachers' feedback on the training and the program in general. |
| Develop lesson plans that incorporate Read 180 Next Generation utilizing the program's embedded text- based comprehension questions that help students build higher order thinking. ELL teachers will incorporate the program's | September- October 2016 | Department Supervisor and teaching staff | Department meeting, teachers planning time and PLC meetings | n/a | Instructional materials created by teachers that show alignment of Read 180 Next Generation program with | Instructional material will incorporate Read 180 Next Generation in a way that will not overwhelm students or distract them with the new technology but help increase their engagement and |

| grammar practice and oral summaries to enhance listening and speaking skills of ELL students. Special Education teachers will utilize the program's App on tablets that uses touch screen technology for the speech impaired. | | | | | the instruction objectives. | comprehension. The strategy emphasized in this objective is to make sure that technology use is aligned with the lesson objectives and formative assessment strategies are used. |
|--|----------------------------------|--|--|---|--|---|
| Implement instruction that incorporate Read 180 Next Generation program | November 2016 - April 2017 | English language Arts teachers in grades 4-6 | Library computer lab and shared laptop carts | n/a | Students benchmark exams and performance portfolios | The principal and the Dept. Supervisor will evaluate instruction material and give feedback to teachers and examine effectiveness via students' achievement data. |
| Provide on-going PD in forms of Lunch & Learn opportunities or after school workshops to address any gaps in utilizing the program to its full potential, and share best practices. Teachers will earn PD hours for those times. | November 2016 - April 2017 | School Library Media Specialist, TC and English staff members | Library computer lab | n/a | Teachers feedback questionnaires and comments | Sharing best practices and address gaps in utilization of the program will encourage teachers to use it and feel comfortable with it especially those who are hesitant to incorporate technology. |
| Evaluate the program and its effectiveness in attaining the learning goal and modify instructional materials for various groups | Summer 2017 | English Language Arts teachers and Department Supervisor | Library computer lab | Stipend for teachers coming to summer meetings and helping with modifying the instructional materials. \$25/hour x10 hours= \$250/teacher | Modified instructional materials and evidence of effectiveness | The principal and Dept. Supervisor will acknowledge staff members who worked to evaluate the program and ensure compensation for their time |

| Action Plan | | | | | | | | | | | |
|---|--|---|--|---|---|--|---|--|--|--|--|
| School: | | | Principal: | | | Date | Submitted: | | | | |
| Section A –Describe your | goal, target audience, and identify | which need(s) th | ne goal addresses. (Re | fer to prior data analysis re | garding needs) | | | | | | |
| Goal #2 | | Improve students reading and literacy levels by 2% for at-risk students and help them to utilize visualization as a powerful bridge between experience and abstraction for grades 7-9 | | | | | | | | | |
| | | At-risk student | te and Students with s | shaction for grades 7-9. | | | | | | | |
| Target Audience | | At-lisk studeli | | special fields | | | | | | | |
| Identified Needs | ntified Needs This goal aligns with the following CCSS for English Language Arts for grad CCSS.ELA-LITERACY.CCRAR.8: Delineate and evaluate the argument ar the reasoning as well as the relevance and sufficiency of the evidence. CC more texts address similar themes or topics in order to build knowledge or | | | | | 5 7-9: CCSS.ELA-LITERACY.CCRAR.7: ling visually and quantitatively as well as words. specific claims in a text, including the validity of .ELA-LITERACY.CCRAR.9: Analyze how two or compare the approaches the authors take. | | | | | |
| Outcomes/Objecti | ACTION STEPS – Section C | | | IMPLEMENTATI | ON INFORMA | TION | | | | | |
| ves Section B- The outcomes must | Descriptively list the action to ensure progress toward your goal. Action steps are strategies and interventions which should be research- | Section D– For each of the Action Steps you list, give timeline, person(s) responsible (for management, coordination and m required resources (infrastructure- services, physical and human resources), projected cost(s)/funding sources, evaluation source with identified instrument/methodology, and principal strategies and responsibilities. (For Evaluation Strategy, define will evaluate the action step.) | | | | | ordination and monitoring), ices, evaluation data Strategy, define how you | | | | |
| be measureable and directly aligned to Goal. <u>This</u> <u>outcome/objective</u> <u>must be one of your</u> <u>technology related</u> <u>outcomes/objective</u> <u>s from Project #4 for</u> <u>this Goal</u> under rotener based where possible and may include professional development, technology, communication, and parent initiatives within the action steps. (Use as many steps as you need for each Outcome) | Timeline (begin-end date for each step) | Person Responsible for coordination and reporting | Required Resources (People, technology, furniture, etc.) | Estimated Projected Cost(s) & Funding Sources | Evaluation Data Source and Instruments used | Principal Strategies and Responsibilities to insure success | | | | | |
| Outcome/Objecti ve #1- IN THIS BOX – this outcome is only related to Goal 2 | Technology Coordinator and the members of the technology committee will purchase <u>BrainPOP</u> , <u>Digital Media and Graphic Organizers</u> grade-wide license for grades 7-9 Software for purchase will include Voice Thread and Sounding Board. | August 2016 | Technology Coordinator | Library computer lab and shared laptop carts Electronic translators, dictionaries and encyclopedias. | \$18/student x 200 students = \$3600 Funding will derive from district's technology budget, E-rate discounts and Technology grants <u>http://www.eduto pia.org/grants- and-resources</u> | Tech Coordinator and committee consulted published research about the effectiveness of such programs. They also consulted with other districts utilizing the program for similar goals | TC will insure that the tech staff has installed all the necessary software on the computers in the library lab and the laptop carts. | | | | |

| Provide professional development training for SE English teachers, Media Specialists and support teachers for grade 7-9 | September, 2016 (during in- service days) | Professional training by BrainPOP representatives provided as a complementary with the purchase of the program | 4 computer labs in the High School | n/a | Questions and observation during the training and teacher's feedback questionnaires | TC and Department Supervisor will insure attendance and visit the training site. Then evaluate teachers' feedback on the training and the program in general. |
|--|---|---|--|-----|--|--|
| Develop lesson plans that incorporate BrainPOP utilizing the program's short videos and games to engage SE and at-risk students. Teachers will incorporate the program's tests and interactive worksheets to evaluate understanding. These test can be modified to accommodate students with special needs. Special Education teachers will utilize the program's App on tablets that uses touch screen technology for the speech impaired. | September- October 2016 | Department Supervisor and teaching staff | Department meeting, teachers planning time and PLC meetings | n/a | Instructional materials created by teachers that show alignment of BrainPOP program with the instruction objectives. | Instructional material will incorporate BrainPOP program in a way that will engage students and not make them passive recipients of the new technology, but help increase their involvement and comprehension. The strategy emphasized in this objective is to make sure that technology use is aligned with the lesson objectives and formative assessment strategies are used. |
| Implement instruction that incorporate BrainPOP videos, games and online/offline worksheets | November 2016 - April 2017 | Special Education English teachers, Media Specialists and support teachers in grades 7-9 | Library computer lab and shared laptop carts | n/a | Students benchmark exams and performance portfolios | The principal and the Dept. Supervisor will evaluate instruction material and give feedback to teachers and examine effectiveness via students achievement data |
| Provide on-going PD in forms of Lunch & Learn opportunities or after school workshops to address any gaps in utilizing the program to its full potential, and share best practices. Teachers will earn PD hours for those times. | November 2016 - April 2017 | School Library Media Specialist and TC and English staff members | Library computer lab | n/a | Teachers feedback questionnaires and comments | Sharing best practices and address gaps in utilizing the program will encourage teachers to use it and feel comfortable with it especially those who are apprehensive about using technology. |

| Evaluate the program and its effectiveness in achieving the designated learning goal and modify instructional materials for targeted groups | Summer 2017 | Special Education English teachers, Support teachers for grades 7-9. Media Specialists and Department Supervisor | Library computer lab | Stipend for teachers coming to summer meetings and helping with modifying the instructional materials. \$25/hour x10 hours= \$250 | Modified instructional materials and evidence of effectiveness | The principal and Dept. Supervisor will acknowledge staff members who worked to evaluate the program and ensure compensation for their time. |
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| Action Plan | | | | | | | | | | |
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| School: | | | Principal: | | | Date | Submitted: | | | |
| Section A –Describe your | goal, target audience, and identify | which need(s) the | ne goal addresses. (Re | fer to prior data analysis re | garding needs) | | | | | |
| Goal #3 | | Center the cur and special-ne | rriculum, using techno eeds) that parallel tho | logy to promote project-b se faced by adults in real- | ased learning initiati -world settings | ves for grades 10-1 | 2 (ELL, at-risk, general | | | |
| Target Audience | | All students in | grades 10-12 in Engl | lish Language Arts classe | es. | | | | | |
| Identified Needs | | The Common school. By pro CCSS.ELA-LI comes to work | Core State Standards oviding students with TERACY.CCRAL.3, k king on projects they a | s prepare students to bec project –based learning ir Knowledge of Language, v are not familiar with. | ome college and car nitiatives we are prep will prepare the stude | eer ready when the paring them for the r ents to function in a | y graduate from high next step. Standard different context when it | | | |
| Outcomes/Objecti | ACTION STEPS – Section C | | | IMPLEMENTATI | ON INFORMA | ATION | | | | |
| ves Section B- The outcomes must | Descriptively list the action to ensure progress toward your goal. Action steps are strategies and interventions which should be research- | Section D– For required resour source with ide will evaluate th | r each of the Action Ste rces (infrastructure- se entified instrument/meth e action step.) | ps you list, give timeline, p rvices, physical and human nodology, and principal stra | erson(s) responsible (resources),projected tegies and responsibil | for management, concepts of cost(s)/funding source lities. (For Evaluation | ordination and monitoring), ces, evaluation data ı Strategy, define how you | | | |
| be measureable and directly aligned to Goal. <u>This</u> <u>outcome/objective</u> <u>must be one of your</u> <u>technology related</u> <u>outcomes/objective</u> <u>s from Project #4 for</u> <u>this Goal</u> <u>based where possible and</u> may include professional development, technology, communication, and parent and community involvement initiatives within the action steps as you need for each Outcome) | Timeline (begin-end date for each step) | Person Responsible for coordination and reporting – point person | Required Resources (People, technology, furniture, etc.) | Estimated Projected Cost(s) and Funding Sources | Evaluation Data Source and Instruments used | Principal's Strategies and Responsibilities to insure success for each step | | | | |
| Outcome/Objecti ve #1- IN THIS BOX - this outcome is only related to Goal 3 | Technology Coordinator and the members of the committee will purchase 2 computer carts of 30 laptops for classroom use along with 20 iPads | August 2016 | Technology Coordinator | 2 computer carts of 30 laptops for classroom use along with 20 iPads | 60 computers @ \$300 each 2 carts @ \$2,000 each 20 iPads @ \$500 each 1 iPad cart @ \$900 each Total cost: \$32,900 Funding will | Invoices Paid Purchase Orders | TC will insure that the IT staff has connected the computers to the district's network and installed all the necessary software | | | |

| | | | | derive from district's technology budget, E-rate discounts and Technology grants <u>http://www.eduto</u> <u>pia.org/grants-</u> <u>and-resources</u> | | |
|--|--|---|---|---|---|---|
| Provide Professional Development for English teachers grades 10-12 on Problem Based Learning | September 2016 (during in- service days) | English Department Supervisor | Interactive Whiteboard, Projector, Conference Room | n/a | Questions and observation during the training and teacher's feedback questionnaires | Provide time for teachers and supervisor to continue working together throughout the start of the year on an as needed basis. Evaluation of teacher survey |
| Curriculum planning time | September – October 2016 | English Department Supervisor and English Teachers | Conference Room | n/a | Lesson Plans, Curriculum Maps | Provide release time from non-instructional duties and meetings to allow for planning of Problem Based Learning into the classroom |
| Implementation of Problem Based Learning Tasks for all students along with modified assignments for Special Education and ELL students. | October 2016 – April 2017 | Grade 10-12 English Teachers, Special Education Teachers and ELL Teachers | Classrooms, Computer Carts, Tablet Carts | n/a | Instructional materials created by teachers that show alignment to instruction objectives and student performance portfolios | The principal and the Dept. Supervisor will evaluate instruction material and give feedback to teachers and examine effectiveness via student's achievement data. |
| Review of current curriculum and guidelines to help with future implementation of Problem Based Learning tasks | Summer 2017 | English Department Supervisor, Teachers | Computers for teachers to update documents | Stipend for teachers coming to summer meetings and helping with modifying the instructional materials. \$25/hour x10 | Modified instructional materials and evidence of effectiveness | The principal and Dept. Supervisor will acknowledge staff members who worked to evaluate the program and ensure compensation for their time |

| | | hours= \$250/teacher | |
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| Action Plan | | | | | | | | | | | |
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| School: | | | Principal: | | | Date | Submitted: | | | | |
| Section A –Describe your | goal, target audience, and identify | which need(s) the | ne goal addresses. (Re | fer to prior data analysis re | garding needs) | | | | | | |
| Goal #4 | | Student prepa | ration for online testin | ig and college-career rea | diness (grades 9 -12 | +) for all students. | | | | | |
| Target Audience | | Students in ge | eneral education and I | English Language Learne | rs | | | | | | |
| Identified Needs | | This goal aligns with CCSS Anchor Standards for College and Career Readiness for Reading, Writing, Speaking and Listening and for Language http://www.corestandards.org/ELA-Literacy/CCRA/R/#CCSS.ELA-Literacy.CCRA.R.4 | | | | | | | | | |
| Outcomes/Objecti | ACTION STEPS – Section C | | | IMPLEMENTATI | ON INFORMA | TION | | | | | |
| ves Section B- The outcomes must | to ensure progress toward your goal. Action steps are strategies and interventions which should be research- | Section D– For required resour source with ide will evaluate th | each of the Action Ste rces (infrastructure- se entified instrument/meth e action step.) | ps you list, give timeline, p vices, physical and human odology, and principal stra | erson(s) responsible (resources), projected tegies and responsibil | for management, cou l cost(s)/funding sour lities. (For Evaluation | ordination and monitoring), rces, evaluation data o Strategy, define how you | | | | |
| directly aligned to Goal. This outcome/objective must be one of your technology related outcomes/objective s from Project #4 for this Goalbased where possible and may include professional development, technology, communication, and parent initiatives within the action steps. (Use as many steps as you need for each Outcome) | Timeline (begin-end date for each step) | Person Responsible for coordination and reporting – point person | Required Resources (People, technology, furniture, etc.) | Estimated Projected Cost(s) and Funding Sources | Evaluation Data Source and Instruments used | Principal's Strategies and Responsibilities to insure success for each step | | | | | |
| Outcome/Objecti ve #1- IN THIS BOX - this outcome is only related to Goal 4 | Technology Coordinator and the members of the technology committee will purchase a subscription to Gale Database Testing & Education Reference Center for grades 7-12 with home access. Media Specialist will prepare student and teacher handouts. | August 2016 | Technology Coordinator | Library computer lab and home personal computers | \$1500 per school. District will need access for High School. Total: \$1500 Funding will derive from district's technology budget, E-rate discounts and Technology grants <u>http://www.eduto pia.org/grants- and-resources</u> | Tech Coordinator and committee consulted published research about the effectiveness of such programs. They also consulted with other districts utilizing the program for similar goals | TC will insure that the IT staff has installed all the necessary software on the computers in the library lab and contacted vendor's IT Dept. to ensure access from home via the school website. | | | | |
| | Introduction of the database to grades 9- 12 classes and their teachers during library orientation classes. Students will create their | September- October 2016 | School Library Media Specialist | Library computer lab and individual classes using laptop carts | Copy machine to produce copies of handouts. | Questions and observation during orientation classes | School Library Media Specialist will make sure that students have created accounts and can access various | | | | |

| accounts during class. A teacher handout detailing how to create accounts and access student progress reports. A handout for students will also be given with instructions on how to access various tests and the eBook guide. Both handouts will be available electronically on individual teacher's website on Homeworknow.com and a copy will be sent home. | | | | | | tests and study guides. |
|---|----------------------------------|--|--|--|--|--|
| Teachers will incorporate the <u>database</u> in their lesson plans utilizing features like Resume Builder and Virtual Career Library that feature two- and four-year institutions across US. Teachers will direct their student to practice tests such as AP subject tests, SAT, ACT TOEFL and US Citizenship for ELLs. | November 2016 – April 2017 | English Language Arts, AP and ELL teachers and School Library Media Specialist | Library computer lab and shared laptop carts | n/a | Instructional materials created by teachers that show the incorporation of Testing and Education Reference Center Database aligned with the instruction objectives. | Promoting the Database in the school newsletter and send a letter home to the parents will encourage them to take part in their children's education. School principal will periodically check the usage report of the database and report feedback to teachers. |
| Promoting Testing & Education Reference Center to students during study hall at the library and give instructions 1:1 on how to access various features and utilize online diagnostic and practice tests and personalized study plans. | November 2016 – April 2017 | School Library Media Specialist | Library Computer lab | n/a | Database usage reports and AP students' benchmark exams. | Working with students 1:1 to promote the usage of database reinforce instructions by classroom teachers and give students especially ELLs the opportunity to understand the program and the various ways to utilize it to enhance learning |
| Evaluate the database usage and its effectiveness in achieving the designated learning goal and modify instruction for targeted groups. Compare student's scores on SAT, ACT and AP exams to the previous | Summer 2017 | English Language Arts, AP and ELL teachers and School Library Media Specialist | Library Computer lab | Stipend for teachers who attend summer meetings and helping with modifying the instructional materials. | Students SAT, ACT and AP scores that show growth from previous year. | The principal and Dept. Supervisor will acknowledge staff members who worked to evaluate the program and ensure compensation for their time. |

| year to check for growth. | | \$25/hour x10 | |
|---------------------------|--|---------------|--|
| | | hours= | |
| | | \$250/teacher | |

| Action Plan | | | | | | | | | |
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| School: | | | Principal: Date Submitted: | | | | | | |
| Section A –Describe your | goal, target audience, and identify | which need(s) th | ne goal addresses. (Re | fer to prior data analysis re | garding needs) | | | | |
| Goal #5 | | Ask and answer questions to demonstrate understanding of a text, referring explicitly to the texts as the basis for answe | | | | | | | |
| | | 3). | aradaa K 2 | | | | | | |
| Target Audience | | | | | | | | | |
| Identified Needs | | Being able to demonstrate that a student understands what they are reading and then formulate questions in response to what was read is critical in their development in English Language Arts. The development of the student from grades K-3 will meet the CCSS.ELA-LITERACY.RLK.1, CCSS.ELA-LITERACY.RL1.1, CCSS.ELA-LITERACY.RL2.1, and CCSS.ELA-LITERACY.RL3.1 standards for Key Ideas and Details. | | | | | | | |
| Outcomes/Objecti | ACTION STEPS – Section C | | | IMPLEMENTATI | ON INFORMA | ATION | | | |
| ves Section B- The outcomes must | Descriptively list the action to ensure progress toward your goal. Action steps are strategies and interventions which should be research- | Section D– For each of the Action Steps you list, give timeline, person(s) responsible (for management, coordination and moni required resources (infrastructure- services, physical and human resources),projected cost(s)/funding sources, evaluation data source with identified instrument/methodology, and principal strategies and responsibilities. (For Evaluation Strategy, define how will evaluate the action step.) | | | | | ordination and monitoring), ces, evaluation data Strategy, define how you | | |
| directly aligned to Goal. <u>This</u> <u>outcome/objective</u> <u>must be one of your</u> <u>technology related</u> <u>outcomes/objective</u> <u>s from Project #4 for</u> <u>this Goal</u> | based where possible and may include professional development, technology, communication, and parent and community involvement initiatives within the action steps. (Use as many steps as you need for each Outcome) | Timeline (begin-end date for each step) | Person Responsible for coordination and reporting | Required Resources (People, technology, furniture, etc.) | Estimated Projected Cost(s) & Funding Sources | Evaluation Data Source and Instruments used | Principal Strategies and Responsibilities to insure success | | |
| Outcome/Objecti ve #1- IN THIS BOX – this outcome is only related to Goal 5 | Technology Coordinator and the members of the committee will purchase 2 computer carts of 30 laptops for classroom use along with 20 iPads | August 2016 | Technology Coordinator | n/a | 60 computers @ \$300 each 2 carts @ \$2,000 each 20 iPads @\$500 each 1 iPad cart @ \$900 each Total cost: \$32,900 Funding will derive from district's | Invoices Paid Purchase Orders | TC will insure that the IT staff has connected the computers to the district's network and installed all the necessary software | | |

| | | | | technology budget, E-rate discounts and Technology grants <u>http://www.eduto pia.org/grants- and-resources</u> | | |
|--|--|--|--|--|---|---|
| Training for K-3 teachers on Noodleverse | September 2016 (during in- service days) | Professional training by Noodleverse representatives provided as a complementary with the purchase of the program | Computer Lab | n/a | Questions and observation during the training and teacher's feedback questionnaires | TC and Department Supervisor will insure attendance and visit the training site. Then evaluate teachers' feedback on the training and the program in general. |
| Develop lesson plans that incorporate Noodleverse utilizing reading and comprehension skills | September – October 2016 | Department Supervisor and K- 3 Teachers | Department meeting, teachers planning time and PLC meetings | n/a | Instructional materials created by teachers that show alignment of Noodleverse program with the instruction objectives. | Instructional material will incorporate Noodleverse program in a way that will engage students and not make them passive recipients of the new technology, but help increase their involvement and comprehension. |
| Provide on-going PD in forms of Lunch & Learn opportunities or after school workshops to address any gaps in utilizing the program to its full potential, and share best practices. Teachers will earn PD hours for those times. | November 2016 – April 2017 | English Department Supervisor, Technology Coordinator, and teaching staff | Classrooms, Conference Room | n/a | Teacher feedback questionnaires and comments | Sharing best practices and address gaps in utilizing the program will encourage teachers to use it and feel comfortable with it especially those who are apprehensive about using technology. |
| Training for K-3 teachers, Special Education Teachers, and Child Study Team Members on Raz- Kids | September 2016 (during in- service days) | Professional training by Raz- Kids representatives provided as a complementary with the purchase of the program | Classroom with iPads available for Special Education students | n/a | Questions and observation during the training and teacher's feedback questionnaires | TC and Department Supervisor will insure attendance and visit the training site. Then evaluate teachers' feedback on the training and the program in general. |

| Implementation of Raz-Kids for Special Education and ELL students who struggle with reading comprehension | September 2016 – June 2017 | Special Education and ESL teachers | Classroom with iPads available for Special Education students | n/a | Teacher feedback questionnaires and comments | Sharing best practices and address gaps in utilizing the program will encourage teachers to use it and feel comfortable with it especially those who are apprehensive about using technology. |
|--|----------------------------------|--|---|--|--|---|
| Evaluate the program and its effectiveness in achieving the designated learning goal and modify instructional materials for targeted groups | Summer 2017 | Special Education English teachers, Support teachers for grades 7-9. Media Specialists and Department Supervisor | Library computer lab | Stipend for teachers coming to summer meetings and helping with modifying the instructional materials. \$25/hour x10 hours= \$250 | Modified instructional materials and evidence of effectiveness | The principal and Dept. Supervisor will acknowledge staff members who worked to evaluate the program and ensure compensation for their time. |

| Action Plan | | | | | | | | | |
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| School: | | Principal: Date S | | | | | Submitted: | | |
| Section A –Describe your | goal, target audience, and identify | which need(s) the | ne goal addresses. (Re | fer to prior data analysis re | garding needs) | | | | |
| Goal #6 | | Students at al | l grade levels will redu | uce spelling errors and inc | crease their awarene | ess of the existence | of their errors when | | |
| | | preparing text | using word processo | rs. | | | | | |
| Target Audience | | All students in grades K-12 in English Language Arts classes. | | | | | | | |
| Identified Needs | | Students will work on developing their foundational skills as outlined in the Common Core State Standards. Being able to recognize and eliminate spelling errors is important to their development. | | | | | | | |
| Outcomes/Objecti | ACTION STEPS – Section C | | | IMPLEMENTATI | ON INFORMA | ATION | | | |
| ves Section B- The outcomes must | Descriptively list the action to ensure progress toward your goal. Action steps are strategies and interventions which should be research- | Section D– For each of the Action Steps you list, give timeline, person(s) responsible (for management, coordination required resources (infrastructure- services, physical and human resources), projected cost(s)/funding sources, eva source with identified instrument/methodology, and principal strategies and responsibilities. (For Evaluation Strategies will evaluate the action step.) | | | | | ordination and monitoring), ces, evaluation data I Strategy, define how you | | |
| be measureable and directly aligned to Goal. <u>This</u> <u>outcome/objective</u> <u>must be one of your</u> technology related <u>outcomes/objective</u> s from Project #4 for this Goal | Timeline (begin-end date for each step) | Person Responsible for coordination and reporting | Required Resources (People, technology, furniture, etc.) | Estimated Projected Cost(s) & Funding Sources | Evaluation Data Source and Instruments used | Principal Strategies and Responsibilities to insure success | | | |
| Outcome/Objecti ve #1- IN THIS BOX – this outcome is only related to Goal 6 | Technology Coordinator and the members of the committee will purchase 2 computer carts of 30 laptops for classroom use along with 20 iPads | August 2016 | Technology Coordinator | 2 computer carts of 30 laptops for classroom use along with 20 iPads | 60 computers @ \$300 each 2 carts @ \$2,000 each 20 iPads @ \$500 each 1 iPad cart @ \$900 each Total cost: \$32,900 Funding will derive from district's technology budget, E-rate | Invoices Paid Purchase Orders | TC will insure that the IT staff has connected the computers to the district's network and installed all the necessary software | | |

| | | | | discounts and Technology grants <u>http://www.eduto</u> <u>pia.org/grants-</u> <u>and-resources</u> | | |
|--|----------------------------------|--|--------------------------------|---|---|---|
| Purchase and installation of assistive technology for Special Education and ELL students including Voicethread and JAWS. | August 2016 | Technology Coordinator, Special Education Supervisor, Child Study Team | n/a | Voicethread Software Program @ \$450 site license JAWS screen reader software @ \$1,295 / computer | Invoices Paid Purchase Orders | Principal will coordinate to ensure budget funds are available. Supervisors, Teachers, and Case Managers will be make sure items are available for students to use |
| Training of staff on assistive software (Voicethread, JAWS, and screen magnification) | September 2016 | Director of Instructional Technology | n/a | Substitute Teachers @\$100/day, as needed | Teacher survey on software | Time for teachers to attend PD Session Review of survey results |
| Provide on-going PD in forms of Lunch & Learn opportunities or after school workshops to address any gaps in utilizing the program to its full potential, and share best practices. Teachers will earn PD hours for those times. | October 2016 – April 2017 | English Department Supervisor, Technology Coordinator, and teaching staff | Classrooms, Conference Room | n/a | Teacher feedback questionnaires and comments | Sharing best practices and address gaps in utilizing the program will encourage teachers to use it and feel comfortable with it especially those who are apprehensive about using technology. |
| Training and setup of teacher Google Apps for Education | September 2016 | Director of Instructional Technology | n/a | Substitute Teachers @\$100/day/sub, as needed | Teacher survey on software | Time for teachers to attend PD Session Review of survey results |
| Introduction of Google Apps for Education for students in Grades 6-12. | September 2016 | Teachers | n/a | n/a | Student survey on software | Review of survey results |
| Incorporate Google Apps for Education into current classes for submission of assignments and reports. | September 2016 – June 2017 | Teachers | n/a | n/a | Lesson Plans Student work and assignments completed using Google Apps for | Review of student and teacher work on Google Apps for Education |

| | | | | | Education | |
|--|----------------|--|----------------------|---|--|---|
| Evaluate the program and its effectiveness in achieving the designated learning goal and modify instructional materials for targeted groups | Summer 2017 | Special Education English teachers, Support teachers for grades 7-9. Media Specialists and Department Supervisor | Library computer lab | Stipend for teachers coming to summer meetings and helping with modifying the instructional materials. \$25/hour x10 hours= \$250/teacher | Modified instructional materials and evidence of effectiveness | The principal and Dept. Supervisor will acknowledge staff members who worked to evaluate the program and ensure compensation for their time. |

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