



# Technology Plan

Submitted by - aab66001 2007-09-19 15:27:17.0

## E-rate Year 2008-2009

### Federal Compliances

**Federal/State Compliances** listed below must be addressed in the county/school plan.

#### **Technology -01 – USING TECHNOLOGY EQUIPMENT/INFRASTRUCTURE FOR EQUITABLE ACCESS TO 21<sup>ST</sup> CENTURY TECHNOLOGY TOOLS**

List one or more activity/strategy that describes how the county/school will budget for and use the technology equipment/infrastructure that supports the acquisition of twenty-first century skills. The action steps should ensure that the capabilities of the technology infrastructure are adequate for acceptable performance of the technology being implemented in the public schools.

#### **Technology 02 - TECHNOLOGY INTEGRATION FOR 21<sup>ST</sup> CENTURY SKILLS/STUDENT ACHIEVEMENT**

List one or more activity/strategy that focuses on using technology to improve achievement of all students with special emphasis on high need and high poverty students. The strategies/action steps should include how 21<sup>st</sup> century tools and skills will allow students to access information, solve problems, communicate clearly, make informed decisions, acquire new knowledge, construct products, reports and systems and access online assessment systems.

#### **Technology 03- PROVIDING COLLABORATION/COMMUNICATION TOOLS (TELECOMMUNICATIONS NETWORK/EMAIL)**

List one or more activity/strategy that describes how the county/school will ensure that the use of telecommunications and internal connections in the schools will enhance student learning. The action steps/strategies should ensure sufficient bandwidth to support teaching and learning and to provide satisfactorily for instructional management needs.

#### **Technology 04- INCREASED ACCESS FOR STUDENTS AND TEACHERS TO 21<sup>ST</sup> CENTURY TOOLS**

List one or more activity/strategy that describes how the county/school will provide increased access to technology for students and teachers.

#### **Technology 05 – DELIVERY OF 21<sup>ST</sup> CENTURY CONTENT THROUGH DISTANCE LEARNING**

List one or more activity/strategy that describes how the county/school will use innovative strategies (e.g., distance learning) to provide for an effective model for the distance delivery or virtual delivery of instruction in subjects where there exists low student enrollment or a shortage of certified teachers or where the delivery method substantially improves the quality of an instructional program (e.g., WV Virtual School).

#### **Technology 06- 21<sup>ST</sup> CENTURY PARENT/COMMUNITY/PARTNERSHIP COLLABORATION**

Include strategies for promoting collaboration with various partners including parents, community organizations, higher education, schools of colleges and universities, employers and content providers.

#### **Technology 07- PROFESSIONAL DEVELOPMENT FOR 21<sup>ST</sup> CENTURY INSTRUCTION**

Include professional development activities for using the telecommunications network for training teachers and administrators to improve the integration of technology. Include strategy(ies) (e.g., technology integration specialists). to provide ongoing support and assistance to teachers in integrating technology into twenty-first century instruction.

#### **Technology 08- MAINTENANCE AND REPAIR OF 21<sup>ST</sup> CENTURY TOOLS**

List one or more activity/strategy that describes how the school/county will implement, support, maintain and repair all computer equipment and internal connections.

#### **Technology 09- ADULT LITERACY**

List one or more activity/strategy that describes how the school/ county will collaborate with adult literacy providers when appropriate.

### Narrative Summary

The county and school technology plans provide a description of how the county and schools plan to allocate adequate resources to provide students with equitable access to 21st century technology tools, including

instructional offerings and appropriate curriculum, assessment and technology integration resources aligned to both the content and rigor of state content standards as well as to learning skills and technology tools. The plans include the various technologies that enable and enhance the attainment of 21st century skills outcomes for all students. How we plan for technology in our county and schools is based upon the validation from research-based evaluation findings from previous West Virginia-based evaluation projects.

In addition, through the technology planning process, the county and schools continue to study and include emerging technologies for application in a twenty-first century learning environment. The purchase of technology through state contracts provides for uniformity in technological hardware and software standards and procedures. State provided anti-virus protection software helps to ensure network security and integrity. Expanded bandwidth, along with additional local, state and federal funding, provide increased ability for the county to ensure that the capabilities and capacities of the technology infrastructure are adequate for acceptable performance of the technology being implemented in the public schools. As an additional benefit, the county and schools enjoy the opportunity to purchase from state contracts that allow us to be able to take advantage of appropriate bulk purchasing abilities and to purchase from competitively bid contracts.

An added benefit for our county and school data collection and reporting to the Department of Education and to the federal government is WVEIS, the state-provided comprehensive statewide uniform integrated education management and information system. Also developed by WVEIS, the online county and school's technology plan's structure allows flexibility to adjust the plan based on developing technology, federal and state requirements and changing local school and county needs. The online county and school technology plans are developed in compliance with United States Department of Education regulations and Federal Communications Commission requirements for federal E-rate discounts. The county and schools also continue to seek applicable federal government funds, philanthropic funds, and other partnership funds (or any combination of these types of funds) to augment state appropriations and encourage the pursuit of funding through grants, gifts and donations.

Some technology initiatives in schools and counties may not be adequately addressed in the goals/objective/strategy section of the technology planning section. The county and school narrative allow planning teams to structure a framework/narrative description to describe how the county and schools will allocate adequate resources to provide students and teachers to twenty-first century technology tools,

## Technology Needs Assessment

A timely replacement procedure has resulted in 364 of our 425 computers being 2000, XP, or Vista. The remaining 61 are 98 machines or machines that are not Internet connected and used solely for word processing or specific subject areas utilizing CD's. Upgrades and replacement procedures will continue as funds allow and student needs are projected.

## Action Steps

### Technology 01-Using Technology Equipment/Infrastructure for Equitable Access to 21st Century Technology Tools

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**Plan Section** Technology

**Associated Goals/Objectives**

Technology-Improve infrastructure

**Associated High Yield Strategies**

None

**Action Step** TECH 1/The county will budget for and use the technology equipment/infrastructure that supports the acquisition of twenty-first century skills. (Technology)

**1** - A server will be purchased and installed at Franklin Elementary School.

**2** - All 98 machines will be removed from all schools used for Internet

connection.

**3** - AB Tutor Software will be purchased and installed on all 7-12 machines.

**4** - Palms and Wireless Generation software will be purchased with Title I funds to implement the Tier 3 reading program at North Fork and Brandywine.

**5** - Wireless Generation/Dibels software will be renewed for Franklin Elementary K-3 with a RTI Grant.

**7** - The Gradequick program will be sustained at for grades 7-12.

**6** - Two workstations will be purchased for Franklin Elementary classrooms.

**8** - Ceiling mounts will be researched for possible purchase for classrooms using white boards and projectors.

<b>Projected Begin Date</b>	<b>Projected End Date</b>	<b>Actual Begin Date</b>	<b>Actual End Date</b>
June 12, 2007	June 11, 2010	June 12, 2007	June 11, 2008

<b>Purpose</b> To support all schools with current equipment and infrastructure	<b>Persons Responsible</b> Technology Director, Coordinator of Computer Services, Business Manager	<b>Target Audience</b> All Schools
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**Federal Compliances**  
 Technology 01-Using Technology Equipment/Infrastructure for Equitable Access to 21st Century Technology Tools

**Plan Section** Title II

**Associated Goals/Objectives** None **Associated High Yield Strategies** None

**Action Step** Provide support and training to implement the RTI and DIBELS program (TII)

- Selected teachers will attend Tier II reading and RTI workshops
- Substitutes will be provided for DIBELS training

- Substitutes and support will be provided for DIBELS assessment analysis

<b>Projected Begin Date</b>	<b>Projected End Date</b>	<b>Actual Begin Date</b>	<b>Actual End Date</b>
July 13, 2007	June 9, 2008	?	?

**Purpose** To equip K-3 teachers with additional reading assessment tools  
**Persons Responsible** Principal, K-3 Team, Director of Student Services

**Professional Development** Trainer Led  
**Federal Compliances** Title II 02. Professional Development, Technology 01-Using Technology Equipment/Infrastructure for Equitable Access to 21st Century Technology Tools

## Technology 02-Technology Integration for 21st Century Skills/Student Achievement

**Plan Section** Technology

**Associated Goals/Objectives** Technology-Improve infrastructure  
**Associated High Yield Strategies** None

**Action Step** TECH/2: The county will focus on using technology to improve achievement of all students with special emphasis on high need and high poverty students. (Technology)

- 1 - The Skills Tutor program will be maintained for all students and programmed to meet academic needs.
- 2 - The Odyssey program will be purchased and implemented in Pre-K-6 at Franklin Elementary
- 3 - Teachers and Staff will utilize the IKnow site for student assessment.
- 4 - Dibels assessment will be implemented in all K-3 levels to identify, monitor, and increase reading instruction as prescribed.
- 5 - A digital camera and color printer will be provided for the 9-12 arts programs to promote student interest in the graphic arts field.

<b>Projected Begin Date</b> June 12, 2007	<b>Projected End Date</b> June 11, 2010	<b>Actual Begin Date</b> June 12, 2007	<b>Actual End Date</b> June 11, 2008
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**Purpose** To improve achievement for all students

**Persons Responsible** Teachers, Principals, and support staff

**Target Audience** All students with special emphasis on high need and high poverty

**Federal Compliances**  
Technology 02-  
Technology Integration for 21st Century Skills/Student Achievement

### Technology 03-Providing Collaboration/Communication Tools (Telecommunications Network/Email)

**Plan Section** Technology

<b>Associated Goals/Objectives</b> Technology-Improve infrastructure	<b>Associated High Yield Strategies</b> None
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**Action Step** TECH/3: The county will ensure that the use of telecommunications and internal connections in the schools will enhance student learning. (Technology)

- 1 - Maintain all voice, long distance and cellular communications, receiving discounts via the e-rate. State funding from the Tools for Schools Elementary and Secondary Initiatives will be utilized for the local match.
- 2 - Maintain T1 lines for schools and administrative offices receiving discounts via the e-rate program.
- 3 - Maintain/improve network infrastructure by upgrading network components including switches and cabling at Pendleton County Middle/High School, Franklin Elementary School and North Fork Elementary School receiving discounts via the e-rate program.

<b>Projected Begin Date</b> August 22, 2007	<b>Projected End Date</b> June 10, 2010	<b>Actual Begin Date</b> August 27, 2007	<b>Actual End Date</b> June 10, 2008
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**Purpose** To **Persons** **Target**

enhance student learning

**Responsible Audience**

All staff Students and Educators

**Federal Compliances**

Technology 03-Providing Collaboration/Communication Tools (Telecommunications Network/Email)

**Technology 04-Increased Access for Students and Teachers to 21st Century Tools**

**Plan Section** Technology

**Associated Goals/Objectives**

Technology-Improve infrastructure

**Associated High Yield Strategies** None

**Action Step** TECH/4: To provide increased access to technology for students and teachers. (Technology)

- 1 - Computer labs will be available for teachers and staff to schedule on a monthly calendar.
- 2 - The distance learning lab will be staffed and available for classes or special sessions.
- 3 - Mobile white boards with projectors and a laptop will be available at all schools for teachers and students to utilize.
- 4 - Graphing calculators will be provided for all higher level mathematics classes.
- 5 - An automated library system for Franklin Elementary School will be researched for possible purchase and implementation.

<b>Projected Begin Date</b>	<b>Projected End Date</b>	<b>Actual Begin Date</b>	<b>Actual End Date</b>
June 12, 2007	June 10, 2010	August 22, 2007	June 10, 2008

**Purpose** To provide increased access to technology  
**Persons Responsible** All staff

**Federal Compliances**  
 Technology 04-

Increased Access  
for Students and  
Teachers to 21st  
Century Tools

## Technology 05-Delivery of 21st Century Content through Distance Learning

**Plan Section** Technology

**Associated Goals/Objectives**      **Associated High Yield Strategies** None  
Technology-Improve infrastructure

**Action Step** TECH/5: To use innovative strategies to provide for an effective model for the distance delivery or virtual delivery of instruction. (Technology)

- 1 - High School Calculus class will be offered from Marshall University
- 2 - College courses will be delivered through the distance learning classroom.
- 3 - Virtual Field trips will be offered to all schools to enhance instruction.

<b>Projected Begin Date</b>	<b>Projected End Date</b>	<b>Actual Begin Date</b>	<b>Actual End Date</b>
August 22, 2007	June 10, 2010	August 27, 2007	June 1, 2008

<b>Purpose</b> To increase distance learning strategies	<b>Persons Responsible</b> Technology Director, Teachers, Principals	<b>Target Audience</b> Students
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**Federal Compliances**  
Technology 05-  
Delivery of 21st  
Century Content  
through Distance  
Learning

## Technology 06-21st Century Parent/Community/Partnership Collaboration

**Plan Section** Technology

**Associated Goals/Objectives**

Technology-Improve infrastructure

**Associated High Yield Strategies**

None

**Action Step** TECH/6: To promote collaboration with various partners including parents, community organizations, higher education, schools of colleges and universities, employers and content providers. (Technology)

**1** - Maintain our collaborative projects with the June Harless Center/Marshall University.

**2** - Promote county and school web sites to provide parental and community information.

<b>Projected Begin Date</b>	<b>Projected End Date</b>	<b>Actual Begin Date</b>	<b>Actual End Date</b>
June 12, 2007	June 11, 2010	June 12, 2007	June 11, 2008

**Purpose** To promote collaboration with institutions of higher learning

**Persons Responsible** Technology Director

**Target Audience** All stakeholders

**Federal Compliances**

Technology 06-21st Century Parent/Community/Partnership Collaboration

**Technology 07-Professional Development for 21st Century Instruction**

**Plan Section** Technology

**Associated Goals/Objectives** **Associated High Yield Strategies** None

Technology-Improve infrastructure

**Action Step** TECH/7: To plan for professional development activities for using the telecommunications network for training teachers and administrators to improve the integration of technology. (Technology)

**1** - County teachers will provide DIBELS training for Brandywine K-3 and North Fork 2-3.

**10** - Teachers and Principals attending the 21st Century Leadership summer programs will provide support to all staff members as needed.

**2** - Standards Based Math training will be conducted monthly via distance learning connections from the June Harless Center.

**3** - Odyssey training will be provided for Franklin Elementary School

and North Fork Elementary

- 4 - Creative Curriculum.net training will be provided for all Pre-K staff.
- 5 - A Harcourt Reading consultant will provide training for K-6 staff in implementing technology with the new reading series.
- 6 - The TIS teacher will provide training for using the SchoolKit programs for grades 7-12.
- 7 - Electronic gradebook trainings will be offered to all new personnel expressing interest.
- 8 - Whiteboard trainings will be offered to all teachers requesting information to integrate this technology with instruction.
- 9 - Intel Teach to the Future professional development will be offered to K-12 staff.

<b>Projected Begin Date</b>	<b>Projected End Date</b>	<b>Actual Begin Date</b>	<b>Actual End Date</b>
September 4, 2007	May 30, 2010	September 4, 2007	May 30, 2008

**Purpose** To provide professional development  
**Persons Responsible** Technology Integration Specialist

**Federal Comiances**  
 Technology 07-Professional Development for 21st Century Instruction

## Technology 08-Maintenance and Repair of 21st Century Tools

**Plan Section** Technology

**Associated Goals/Objectives** Technology-Improve infrastructure  
**Associated High Yield Strategies** None

**Action Step** TECH/8: To implement, support, maintain and repair all computer equipment and internal connections. (Technology)

- 1 - Support and maintain a County Coordinator Computer Services position.

**2** - Switches will be purchased for Pendleton County Middle-High School

**3** - Continue communications for computer repair with RESA VIII

<b>Projected Begin Date</b>	<b>Projected End Date</b>	<b>Actual Begin Date</b>	<b>Actual End Date</b>
August 1, 2007	June 30, 2010	August 1, 2007	August 1, 2008

**Purpose** Maintenance of equipment  
**Persons Responsible** Coordinator of Computer Services

**Federal Compliances**  
 Technology 08-Maintenance and Repair of 21st Century Tools

## Technology 09-Adult Literacy

**Plan Section** Technology

**Associated Goals/Objectives** Technology-Improve infrastructure  
**Associated High Yield Strategies** None

**Action Step** TECH/9: To collaborate with adult literacy providers when appropriate. (Technology)

**1** - All schools will provide access to computer labs for approved adult literacy classes.

<b>Projected Begin Date</b>	<b>Projected End Date</b>	<b>Actual Begin Date</b>	<b>Actual End Date</b>
June 12, 2007	June 11, 2010	June 12, 2007	June 11, 2008

**Purpose** To provide community collaboration projects  
**Persons Responsible** Technology Director, Principals

**Federal**

**Compliances**  
Technology 09-  
Adult Literacy

**E-rate Budgets**

<b>Funding Source</b>	<b>Year</b>		<b>Annual</b>	<b>Disc% Commit</b>	<b>County Match</b>
E-rate funds	2008	Cellular	2,928.00	2,196.00	732.00
		Data Lines	27,360.00	20,520.00	6,840.00
		Internal Conn Maint	0.00	0.00	0.00
		Internal Connections	0.00	0.00	0.00
		Internet Access	0.00	0.00	0.00
		Long Distance	3,120.00	2,340.00	780.00
		Paging	0.00	0.00	0.00
		Voice	11,148.00	8,483.40	2,664.60
		WAN	0.00	0.00	0.00
		Web Hosting	0.00	0.00	0.00
		E-rate Totals	44,556.00	33,539.40	11,016.60

TFS/Elementary E-rate Application	2008	State Totals - TFS/Elementary	0.00	0.00	0.00
TFS/Secondary E-rate Application	2008	State Totals - TFS/Secondary	0.00	0.00	0.00

<b>Funding Source</b>	<b>Year</b>		<b>Annual</b>	<b>Disc% Commit</b>	<b>County Match</b>
E-rate funds	2007	Cellular	2,928.00	2,196.00	732.00
		Data Lines	27,360.00	20,520.00	6,840.00
		Internal Conn Maint	0.00	0.00	0.00
		Internal Connections	0.00	0.00	0.00
		Internet Access	0.00	0.00	0.00
		Long Distance	3,120.00	2,340.00	780.00
		Paging	0.00	0.00	0.00
		Voice	11,148.00	8,483.40	2,664.60
		WAN	0.00	0.00	0.00

Web Hosting	0.00	0.00	0.00
E-rate Totals	44,556.00	33,539.40	11,016.60

TFS/Elementary E-rate Application	2007	State Totals - TFS/Elementary	0.00	0.00	0.00
TFS/Secondary E-rate Application	2007	State Totals - TFS/Secondary	0.00	0.00	0.00

Funding Source	Year		Annual	Disc% Commit	County Match
E-rate funds	2006	Cellular	2,928.00	2,196.00	732.00
		Data Lines	27,360.00	20,520.00	6,840.00
		Internal Conn Maint	0.00	0.00	0.00
		Internal Connections	0.00	0.00	0.00
		Internet Access	0.00	0.00	0.00
		Long Distance	3,120.00	2,340.00	780.00
		Paging	0.00	0.00	0.00
		Voice	11,148.00	8,483.40	2,664.60
		WAN	0.00	0.00	0.00
		Web Hosting	0.00	0.00	0.00
		E-rate Totals	44,556.00	33,539.40	11,016.60

State Basic Skills E-rate Application	2006	State Totals - BS/CE	0.00	0.00	0.00
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State SUCCESS E-rate Application	2006	State Totals - SUCCESS	0.00	0.00	0.00
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Funding Source	Year		Annual	Disc% Commit	County Match
E-rate funds	2005	Cellular	4,323.36	3,328.99	994.37
		Data Lines	28,815.00	22,187.55	6,627.45
		Internal Conn Maint	0.00	0.00	0.00
		Internal Connections	0.00	0.00	0.00
		Internet Access	0.00	0.00	0.00
		Long Distance	2,940.72	2,264.35	676.37
		Paging	0.00	0.00	0.00
		Voice	20,312.88	16,175.59	4,137.29

Web Hosting	0.00	0.00	0.00
E-rate Totals	56,391.96	43,956.48	12,435.48

State Basic Skills E-rate Application	2005 Brandywine	2,340.00	80	1,872.00	468.00
	Franklin ES	2,340.00	80	1,872.00	468.00
	North Fork ES	2,340.00	90	2,106.00	234.00
	State Totals - BS/CE	7,020.00		5,850.00	1,170.00

State SUCCESS E-rate Application	2005 State Totals - SUCCESS	0.00		0.00	0.00
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## E-Rate Compliance

### County E-Rate Compliance Questions

#### Acceptable Use Policy

Look at the information included in this section. Revise if any of the information listed is incorrect or needs to be updated.

1. Do you have an Acceptable Use Policy?  Yes  No

2. If yes, what is the last date of adoption/revision? 10/19/2005

3. When was the public meeting held for CIPA Compliance? 08/06/2001

4. Provide the URL to your acceptable use policy.  
[http://www.pendletoncountyschools.com/policy\\_manual/04I\\_instructII.pdf](http://www.pendletoncountyschools.com/policy_manual/04I_instructII.pdf)

Other  
Schools Buildings Total

5. Please identify for E-Rate requirements the number of buildings in your county that have Dial Up modem connections to the Internet? 0      0      0

6. Please identify for E-Rate requirements the number of buildings in your county that have 56K frame relay connections to the Internet? 0      0      0

7. Please identify for E-Rate requirements the number of buildings in your county that 4      2      6

have T-1 frame relay connections to the Internet?

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8. Please identify for E-Rate requirements the number of buildings in your county that have ATM T-1 Internet connections?	1	0	1
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9. Please identify for E-Rate requirements the number of buildings in your county that have cable modem connections to the Internet?	0	0	0
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10. Please identify for E-Rate requirements the number of buildings in your county that have DSL connections to the Internet?	0	0	0
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11. Please identify for E-Rate requirements the number of buildings in your county that have 10 Mb connections to the Internet?	0	0	0
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12. Please identify for E-Rate requirements the number of buildings in your county that have 45 Mb connections to the Internet?	0	0	0
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13. Please identify for E-Rate requirements the number of buildings in your county that have 100 Mb connections to the Internet?	0	0	0
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14. Please identify for E-Rate requirements the number of buildings in your county that have 1 Gb connections to the Internet?	0	0	0
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15. Please identify for E-Rate requirements the number of buildings in your county that have more than 1 Gb connections to the Internet?	0	0	0
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16. Please identify for E-Rate requirements any other configurations that may exist for buildings connecting to the Internet?			
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# WORK PLAN SUMMARY

## Support/Capacity Building Process

The Pendleton County School System will assist the schools with financial, technical, and human resources available to enable the successful implementation of both the County and School Five Year Plan.

Professional development activities and/or time allocated for teachers to do what is prescribed will occur.

## Process Monitoring

Assistance will be available for those responsible for implementing the county and school plans, whether through scheduled meeting times, after school, or during ISE days. Action steps will be discussed at Faculty Senate meetings and during Administrative County Team meetings. School teams responsible for items will report as appropriate. A checklist will be compiled and completed as actions steps and activities are completed.

## Evaluation Process

School reports will be submitted to the County Superintendent to update progress. Items will regularly appear on BOE agendas to inform members of progress on school & county level. Reports generated from Compass, Odyssey, Accelerated Reading, WESTEST Item Analysis, WV School Report Cards, DIBELS Assessments, Writing Assessments, Skills Tutor, Discipline and Attendance Reports, Parent surveys, Senior exit and follow-up surveys will be analyzed to determine the progress made. Additionally discussions will occur between staff and administration regarding the progress made toward achieving the goals, objectives, and action steps of county and school plans.