



# SC EDUCATION OVERSIGHT COMMITTEE

*Reporting facts. Measuring change. Promoting progress.*

PO Box 11867 | 227 Blatt Building

Columbia SC 29211 | WWW.SCEOC.ORG

## **AGENDA** **Academic Standards & Assessments Subcommittee**

Monday, March 24, 2013  
10:00 AM, Room 433, Blatt Building

- |      |  |             |
|------|--|-------------|
| I.   | Welcome and Introductions  | Dr. Merck   |
| II.  | Approval of the Minutes of January 27, 2014  | Dr. Merck   |
| III. | Discussion of Reading Initiative<br>Special Guest:<br>Kevin Smith<br>Research Alliance Manager<br>Florida Center for Reading<br>Florida State University | Ms. Yow     |
| IV.  | <u>Action Item:</u><br>High School Biology Standard H.B.5  | Mrs. Barton |
| V.   | <u>Action Item:</u><br>Cyclical Review of the Accountability System  | Mrs. Barton |
|      | Adjournment  | Dr. Merck   |

David Whittemore  
CHAIR

Daniel B. Merck  
VICE CHAIR

J. Phillip Bowers

Anne H. Bull

Mike Fair

Margaret Anne Gaffney

Barbara B. Hairfield

Nikki Haley

R. Wesley Hayes, Jr.

Alex Martin

John W. Matthews, Jr.

Joseph H. Neal

Andrew S. Patrick

Neil C. Robinson, Jr.

J. Roland Smith

Patti J. Tate

John Warner

Mick Zais

### Academic Standards and Assessments Subcommittee Members:

Dr. Danny Merck, Chairman

Sen. Mike Fair

Mrs. Barbara Hairfield

Sen. Wes Hayes

Mr. Neil Robinson

Mrs. Patti Tate

Melanie D. Barton  
EXECUTIVE DIRECTOR

**SOUTH CAROLINA EDUCATION OVERSIGHT COMMITTEE**  
**Subcommittee on Academic Standards and Assessments**

**Minutes of the Meeting**  
**January 27, 2014**  
**10:00 AM, Room 433 Blatt Building**

Subcommittee Members Present: Dr. Danny Merck (chair), Sen. Mike Fair, Ms. Barbara Hairfield, and Ms. Patti Tate  
EOC Staff Present: Kevin Andrews, Melanie Barton, Dana Yow; and Hope Johnson-Jones  
Other EOC Members Present: Mr. Phillip Bowers; Rep. Andy Patrick; and Mr. John Warner  
SCDE Staff Present: Ms. Charmeka Childs and Dr. Briana Timmerman

Welcome and Introductions

Dr. Merck welcomed members and guests to the meeting.

Minutes of November 18, 2013

The minutes of November 18, 2013 were approved as distributed.

Revisions to the Science Standards

Mrs. Barton summarized the February 14, 2014 draft of the science standards which included changes made at the request of the EOC. The State Board of Education had given second reading to the standards. Ms. Charmeka Childs of the South Carolina Department of Education was recognized to talk about the timeline for implementation of the science standards. Ms. Childs noted that, unlike the revised social studies standards approved in 2011, the proposed science standards are significant and that development of and implementation of an assessment will not occur until school year 2016-107. In the meantime the Department will be providing professional development to teachers and developing the assessments. Fair asked why the standards were changed so significantly. Ms. Childs responded that while the science content is similar, the standards require students to have a deeper understanding of and application of the scientific concepts. Rep. Patrick asked if South Carolina could consider using the ACT Aspire assessment in science in grades three through 8. Sen. Staff responded to Rep. Patrick that the ACT Aspire test is based on the new science framework, which was used to develop Next Generation Science Standards. Therefore, ACT could provide an analysis that addresses the degree to which the Aspire assessment in science is aligned to the proposed science standards. Senator Fair made the motion to send the revised science standards to the full EOC without a recommendation. The motion was seconded by Mrs. Hairfield. The subcommittee voted to forward the science standards on to the full EOC without a recommendation.

Cyclical Review of the Accountability System

Mrs. Barton provided the members with the most recent information published by *Quality Counts* for 2014. Then Dr. Merck opened up the discussion to subcommittee members as well other members of the EOC in attendance. Mr. Bowers discussed his belief that the report6 should address the issue of governance. Mr. Robinson noted that the recommendations of the stakeholders should be summarized concisely and any other issues that the EOC deems important included. Mr. Warner expressed his concern that the revised document is still

ambiguous and the system fragmented, inefficient, and unaccountable. He reiterated his belief that the Education Oversight Committee should be eliminated as part of the fragmentation. Mr. Warner reiterated that the assessment system should be balanced with objective and subjective measures; that formative assessments should be used throughout the year with only a minimum number of summative assessments; and that teachers should be treated as professionals. Rep. Patrick responded that the pathway to the system that Mr. Warner advocates will occur over time. First, there is a fragmented system for children from birth until entry into the public schools. Improving reading proficiency has to be a focus of all resources. Elevating the teacher quality will require time. Governance is an issue but Rep. Patrick pointed to his own bill as one mechanism for streamlining the system. The EOC must be the entity that analyzes data and makes informed recommendations to the legislature. Mr. Warner reiterated that the EOC needs to be bold and transformative. Mr. Bowers argued that the problems are rooted in systems issues. Sen. Fair noted that the EOC is an extension of the General Assembly. Due to the state funds that public education gets, the General Assembly needs an independent body to assist the General Assembly with several issues. Rep. Patrick pointed out that there are examples of transformative change occurring in SC like the A.J. Wittenberg Elementary and Sterling School in Greenville. Rep. Patrick noted that the process to get to transformation is the issue that divides. Dr. Merck noted that there are significant changes occurring now in public education that are transformative, including new assessments, new teacher evaluation system, new assessments, expansion of technologies, etc. Mrs. Hairfield noted that districts like Charleston are focused on personalized learning. Mrs. Tate noted that the virtual high school and one-to-one technology are transformative.

The subcommittee members agreed to continue working on the recommendations at their next meeting.

There being no further business, the Subcommittee adjourned.

## Recommendations for PK-20 Literacy Initiative

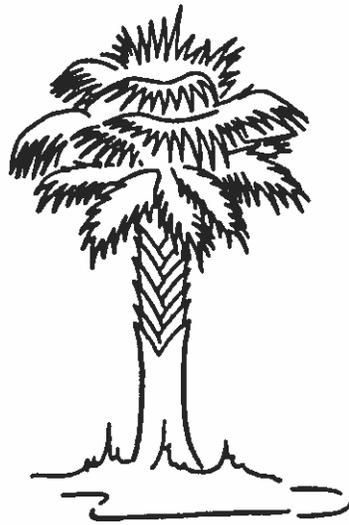
*Recommendations approved by the EOC Special Reading Subcommittee and Public Awareness Subcommittees on January 27, 2014; referred to EOC Subcommittee Feb. 10, 2014. All recommendations based on best practices.*

Early Literacy Recommendations	Status
<p>1. Revise state law to include a statewide mandatory readiness assessment for all students entering 5K kindergarten or state-funded, full-day 4K programs (including CDEPP) beginning with 2014-15 school year. The assessment would be given three times throughout a year and would measure language development, early math, and literacy. Regular progress monitoring for literacy will be done for children beginning in 4K. The results of these assessments will be used to determine the readiness of children entering kindergarten for the first time, to inform classroom instruction, and provide useful information to parents. Results will not be used for accountability purposes or teacher evaluation.</p>	<p>Recommendation included in H.3994 and S.516. Mandate: YES, if legislation passes</p>
<p>2. Establish an Early Provider Readiness Rate compiled from the assessment results of children who attended and completed state-funded 4K programs (including CDEPP). Providers must have readiness rates above the minimum set by the State Board of Education before they are granted provider status. Existing providers whose readiness rate falls below the minimum set by the State Board of Education will be placed on probation and required to submit and implement an improvement plan before receiving future state funding.</p>	<p>Mandate: YES, though legislation not yet proposed.</p>
<p>3. Require any individual who works with children (birth-preschool) that receives state-administered funds to complete 5 hours or 0.5 Continuing Education Units (CEUs) of approved in-service training and technical assistance in early literacy and language development of children from birth to 5 years old. To be administered by DSS Division of Child Care Services.</p>	<p>Mandate: NO Requirements already exist and would not increase. Focus would be on literacy</p>
<p>4. Coordinate within existing initiatives to develop a parent education program for families who have young children from birth to 5 years old that emphasizes essential early literacy skills such as oral language development and print awareness.</p>	<p>Mandate: NO</p>
<p>5. Establish a statewide Task Force on Early Literacy to create public private partnerships designed to promote higher levels of early literacy in programs and homes. Include representatives from family literacy programs, family service programs, center-based programs, and community organizations (i.e., Head Start, DSS, SCDE, First Steps, Reach Out and Read, United Way, etc.) Good examples include the Washington State Dept. of Early Learning partnership with Reach Out and Read and Massachusetts public-private partnership with IBM.</p>	<p>This structure already exists as the Early Literacy Team working with EOC staff Mandate: NO</p>
<p>6. Require school districts to form collaborative teams devoted to serving children ages 0-5 and their families in their own communities. Groups should include local representatives from family literacy programs, family service programs, center-based programs, community organizations, local businesses, and county libraries, etc.</p>	<p>This was a suggestion of a school district employee in the Early Literacy Team. It was suggested that this team could work through the District</p>

	Literacy Team, a requirement in H.3994 and S.526 Mandate: NO
<b>K-12 Recommendations</b>	<b>Status</b>
1. Place qualified reading/literacy coaches in elementary schools based on the percentage of students scoring at the lowest levels of PASS Reading in grade 3. These coaches would provide daily support to classroom teachers, coaching and mentoring them in differentiated instruction and training them to provide intensive literacy intervention to students. Consideration should be given to K-2 schools where students feed into schools where higher levels of students score at the lowest level of PASS in grade 3.	In Governor Haley's budget recommendations and in the current House Ways and Means budget Mandate: NO; districts that have to support the salary and fringe for half of a reading coach can opt not to do so.
2. Require retention for students who score at the lowest level of PASS ELA during their third grade year, provided they don't qualify for one of four "good cause exemptions" outlined in Read to Succeed legislation. The reading instruction of students during the "reinforcement" year would be intensive, explicit, comprehensive, supportive, and provided daily by teacher who has shown proven effectiveness in teaching reading and who has the literacy teacher endorsement.	Included in H.3994 and S.516. Mandate: YES, if legislation passes
3. Require students in middle school scoring Not Met 1 on PASS ELA or any high school student who has not passed HSAP to receive explicit, systematic, and direct literacy instruction from a teacher who has shown proven effectiveness in teaching reading and who has the literacy teacher endorsement during a daily intensive reading course. These students will be frequently progress monitored.	Parts of this recommendation included in current legislation. Mandate: Yes, if legislation passes.
4. Require all school districts complete a K-12 Comprehensive Research-Based Reading Plan annually outlining how they intend to provide intervention to students who struggle in reading.	Recommendation included in H.3994 and S.516. Mandate: YES, if legislation passes
5. Require all school districts to create a District Literacy Team or consortium of multiple districts whose responsibility is to provide the leadership, support, and guidance in the development and implementation of the District Reading Plan. Each school will have a School Literacy Team and the principal must be a team member.	Recommendation included in H.3994 and S.516. Mandate: YES, if legislation passes
6. Require districts to offer skills-based summer reading camps/academies for students who score at the lowest level of PASS ELA during their third grade year. Summer academies should be staffed by teachers highly qualified in literacy. Students earning a passing grade on a selected assessment or who earn a passing grade on a reading portfolio (a series of competency-based benchmarks) will be promoted to fourth grade.	Recommendation included in H.3994 and S.516. Mandate: YES, if legislation passes

Higher Education and Continuing Education for Practicing Professionals	Status
<p>1. <i>Add-on Literacy Endorsement for pre-service teachers:</i> Beginning with the 2015-16 school year, mandate that all pre-service teacher education programs (including MAT degree programs) will require all candidates seeking licensure at the early childhood or elementary level complete a 12 semester credit sequence in literacy that includes a school-based practicum and includes courses in theory, research, and practices that guide and support the teaching of reading.</p>	<p>Recommendation included in H.3994 and S.516. Mandate: YES, if legislation passes</p>
<p>2. <i>Add-on Literacy Endorsement for pre-service teachers:</i> Beginning with the 2015-16 school year, mandate that all pre-service teacher education programs (including MAT degree programs) will require all candidates seeking licensure at the middle or secondary level complete a 6 semester credit sequence in literacy that includes a course in the foundations of literacy and a course in content area literacy as well as a school-based practicum experience.</p>	<p>Recommendation included in H.3994 and S.516. Mandate: YES, if legislation passes</p>
<p>3. Work with CHE and the State Board of Education to relax current regulations that would allow more postsecondary institutions to develop and offer masters' level reading programs in compliance with International Reading Association standards.</p>	<p>Mandate: NO</p>
<p>4. By the 2018-19 school year, all in-service teachers will be required to have the literacy endorsement, courses which will be part of their re-certification. To accomplish this, a network of school districts and postsecondary institutions will be established to coordinate graduate level literacy coursework throughout the state to be used as in-service professional development for teachers and administrators.</p>	<p>Parts of recommendation included in H.3994 and S.516. Mandate: YES, if legislation passes</p>
System-wide Recommendations	Status
<p>1. Develop coordinated early childhood, K-12, and postsecondary data systems to include a statewide progress monitoring system, to support sustained improvement (i.e., CDEPP child-level data systems should be linked to K-12 longitudinal data systems and when possible, postsecondary data systems)</p>	<p>Mandate: NO</p>
<p>2. SCETV, in collaboration with other groups and agencies, will create and maintain an online literacy essentials and reading resource bank to support learning in literacy. The online tools will be geared toward audiences in K-12, afterschool programs, child care programs, as well as parents and families. The network can also be used for online professional development offerings for practicing professionals.</p>	<p>Mandate: NO</p>

# **SOUTH CAROLINA SCIENCE ACADEMIC STANDARDS**



**South Carolina Department of Education  
Columbia, South Carolina**

**November 2005**

## **BIOLOGY**

**Standard B-5:** The student will demonstrate an understanding of biological evolution and the diversity of life.

### **Indicators**

- B-5.1 Summarize the process of natural selection.
- B-5.2 Explain how genetic processes result in the continuity of life-forms over time.
- B-5.3 Explain how diversity within a species increases the chances of its survival.
- B-5.4 Explain how genetic variability and environmental factors lead to biological evolution.
- B-5.5 Exemplify scientific evidence in the fields of anatomy, embryology, biochemistry, and paleontology that underlies the theory of biological evolution.
- B-5.6 Summarize ways that scientists use data from a variety of sources to investigate and critically analyze aspects of evolutionary theory.
- B-5.7 Use a phylogenetic tree to identify the evolutionary relationships among different groups of organisms.

**SOUTH CAROLINA  
ACADEMIC STANDARDS AND PERFORMANCE  
INDICATORS  
FOR SCIENCE**



**Mick Zais, Ph.D.  
State Superintendent of Education**

**South Carolina Department of Education  
Columbia, South Carolina**

# BIOLOGY 1

## BIOLOGICAL EVOLUTION – UNITY AND DIVERSITY

**Standard H.B.5:** The student will demonstrate an understanding of biological evolution and the unity and diversity of life on Earth.

**H.B.5A. Conceptual Understanding:** Scientific evidence from the fields of anatomy, embryology, biochemistry, and paleontology underlie the theory of biological evolution. The similarities and differences in DNA sequences, amino acid sequences, anatomical features and fossils all provide information about patterns of descent with modification. Organisms resemble their ancestors because genetic information is transferred from ancestor to offspring during reproduction.

**Performance Indicators:** Students who demonstrate this understanding can:

**H.B.5A.1** Analyze scientific data to explain how multiple lines of evidence (including DNA or amino acid sequences, anatomical and embryological features, fossils, and artificial selection) are used to investigate common ancestry and descent with modification.

**H.B.5A.2** Explain how scientists use data from a variety of sources to investigate and critically analyze aspects of the theory of biological evolution.

**H.B.5A.3** Construct and interpret a phylogenetic tree, based on anatomical evidence, of the degree of relatedness among various organisms and revise the model based on the inclusion of molecular (such as DNA and/or amino acid sequence) evidence.

**H.B.5B. Conceptual Understanding:** Biological evolution occurs primarily when natural selection acts on the genetic variation in a population and changes the distribution of traits in that population over multiple generations.

**Performance Indicators:** Students who demonstrate this understanding can:

**H.B.5B.1** Critically analyze and interpret data to explain that natural selection results from four factors: (1) the potential for a population to increase in number, (2) the genetic variation among individuals in a species due to sexual reproduction and mutation (3) competition for a limited supply of resources, and (4) the ensuing proliferation of those individuals that are better able to survive and reproduce in that environment.

**H.B.5B.2** Conduct investigations by simulating several generations of natural selection to investigate how changes in environmental conditions may lead to changes in selective pressure on a population of organisms.

# BIOLOGY 1

## BIOLOGICAL EVOLUTION: UNITY AND DIVERSITY *(CONTINUED)*

**H.B.5C. Conceptual Understanding:** According to the theory of biological evolution, natural selection results in populations that are adapted to a particular environment at a particular time. Changes in the physical environment have contributed to the expansion, emergence, or extinction of the Earth's species. Biodiversity is increased by the formation of new species (speciation) and decreased by the loss of species (extinction). Modern classification of Earth's biodiversity is based on the relationships of organisms to one another.

**Performance Indicators:** Students who demonstrate this understanding can:

- H.B.5C.1** Analyze and interpret data, using the principles of natural selection, to make predictions about the long term biological changes that may occur within two populations of the same species that become geographically isolated from one another.
- H.B.5C.2** Construct scientific arguments using data on how changes in environmental conditions could result in (1) the expansion of some species, (2) the emergence of new species over time, or (3) the extinction of other species.
- H.B.5C.3** Use models of the current three-domain, six-kingdom tree of life to explain how scientists classify organisms and how classification systems are revised over time as discoveries provide new evidence.

**Cyclical Review Report**  
**Last Updated March 11, 2014**  
**Executive Summary**

Pursuant to Section 59-18-910, the Education Oversight Committee (EOC) is hereby providing to the General Assembly “a report on the findings and recommended actions to improve the accountability system and to accelerate improvements in student and school performance.”

**Findings:**

**A.** The earnings gap of college versus high school graduates has risen steadily for almost three decades. Gains in educational attainment have not kept pace with rising educational returns. If per capita personal income in South Carolina was at the national average, our citizens would have \$19 billion additional personal income. Few areas the General Assembly can address will increase the prosperity of South Carolinians more than improving public education.

**B.** By the year 2020, 65 percent of the 55 million job openings in the United States will require a postsecondary degree or credential beyond a high school diploma with the fastest growing occupation being STEM and healthcare professions and support that will require post-secondary education. In South Carolina, 62 percent of the 771,000 job openings will require postsecondary degree or credentials. However, currently, 22 percent all students who enter the ninth grade do not graduate from high school. The percentage of adults in South Carolina with at least an associates’ degree is only 34 percent. Furthermore, 41 percent of high school graduates require remediation at the state’s two-year institutions.

**C.** While South Carolina has witnessed sustained improvement in student performance since passage of the Education Accountability Act, too many students are still ill-served by the current public education system and the rate of improvement must accelerate. A strong and growing consensus has formed among parents, educators, business leaders and community advocates that public education must be transformed to meet the needs of individual students.

**D.** South Carolina’s current state accountability system is a “performance based accountability system for public education which focuses on improving teaching and learning so that students are equipped with a strong academic foundation.” To date, the strong academic foundation focuses entirely on student mastery of state standards through summative and end-of-course assessments and high school graduation rates. Today, however, a high school diploma is necessary but no longer sufficient to prepare our students for the next step in their lives. And, the academic performance of students in public schools and school districts in South Carolina is measured and reported by two accountability systems that give conflicting messages to parents, educators and communities.

**Recommended Actions:**

**A.** The General Assembly should adopt the following as South Carolina public education’s mission.

All students graduating from public high schools in South Carolina should have the **knowledge, skills, and opportunity** to be college ready, career ready, and life ready for success in the global, digital and knowledge-based world of the 21<sup>st</sup> century.

All graduates should qualify for and succeed in entry-level, credit bearing college courses without the need for remedial coursework, in postsecondary job training, or significant on-the-job training.

**B.** South Carolina must set goals to measure and improve college, career, and citizenship readiness. Such goals would communicate the vision to the public, demonstrate the importance, and inspire transformative changes in the delivery of education. These goals would be set collaboratively with early childhood education, public education, postsecondary education, parents, and business. Annually, the EOC would monitor the state’s progress toward these goals.

**C.** To encourage progress towards these goals, the EOC recommends amending the current state accountability system to measure the post-secondary success of public school graduates. Year-end summative assessments and high school graduation rates are necessary but no longer sufficient. The accountability system would be a balanced system of multiple measures that give comprehensive, valid, and vital data to ensure that every student is prepared for the 21<sup>st</sup> century. Multiple measures would include extended performance tasks that rely upon the professional judgment of teachers to evaluate student mastery and critical thinking skills.

**D.** In addition to public reporting, accountability requires that standards for the core content areas be aligned to the mission and goals and assessments accurately measure the standards..

**E.** To accelerate improvement, professional educators must be empowered to deliver new forms of radically, personalized, technology-embedded, education. The accountability system must be flexible enough to allow and even support schools and districts to be incubators of change and innovation.

**F.** South Carolina must evaluate and amend existing policies to remove barriers to transformation. For example, are there barriers that restrict the number of high school students who take dual enrollment classes? How can South Carolina prepare, recruit, retain and empower highly qualified teachers to lead the transformation, especially in historically low-achieving schools?

## Cyclical Review of the State Accountability System

Section 59-18-910 of the Education Accountability Act (EAA) requires the Education Oversight Committee (EOC) in collaboration with the State Board of Education and a broad-based group of stakeholders in 2013 to conduct a comprehensive cyclical review of the state's accountability system for public education.

**SECTION 59-18-910.** Beginning in 2013, the Education Oversight Committee, working with the State Board of Education and a broad-based group of stakeholders, selected by the Education Oversight Committee, shall conduct a comprehensive cyclical review of the accountability system at least every five years and shall provide the General Assembly with a report on the findings and recommended actions to improve the accountability system and to accelerate improvements in student and school performance. The stakeholders must include the State Superintendent of Education and the Governor, or the Governor's designee. The other stakeholders include, but are not limited to, parents, business and industry persons, community leaders, and educators.

In December of 2012 the EOC contracted with the Educational Policy Improvement Center (EPIC) to assist the EOC in facilitating the findings and recommendations of the cyclical review. According to EPIC, South Carolina's cyclical review process "is situated within a contemporary policy context that carries deeper and more fundamental questions for a revision of the state accountability system:

- A changing economy is demanding new skills of current and future workers;
- South Carolina ranks 37<sup>th</sup> among the states in adults with post-secondary credentials;
- Fifteen years into the accountability era, a cohort of chronically low-performing schools has shown little improvement under the current set of measures and stakes;
- A wave of local innovation – aided in part by technology advances – is shifting the delivery unit of learning from seat-time to competencies; and
- States across the country are leveraging lessons learned from the early era of accountability to engage in wholesale redesigns for 'next generation' accountability systems." <sup>1</sup>

---

<sup>1</sup> Collins, Sarah K. et. al. from the Educational Policy Improvement Center. *South Carolina Accountability Review & Revision: An Analytical Framework*. Provided to the South Carolina Education Oversight Committee on August 8, 2013.

## **Engagement of Stakeholders**

Beginning in January of 2013 members and staff of the EOC identified thirty-five (35) individuals to serve on a panel to review the accountability system. (Appendix A) Nominations were taken from the committee, from the Speaker of the House, and from the President Pro Tempore of the Senate. The panel met in Columbia on the following dates and gathered information on the following:

- February 13, 2013 – The panel received an overview of the current accountability system from EOC staff, an update on the innovation initiative efforts led by New Carolina from Dr. Gerrita Postlewait, and a presentation by State Superintendent of Education Dr. Mick Zais on his recommendations for amending the accountability system.
- April 8, 2013 – Dr. David Conley, Founder and Chief Executive Officer of the Educational Policy Improvement Center (EPIC) at the University of Oregon, discussed the post-recession job growth, projections of the workforce needs of 2020, and the four keys to college and career readiness.
- June 10, 2013 – Dr. Conley and his team from EPIC presented results of three regional stakeholder meetings and an accountability framework.
- September 16, 2013 – Cyclical review panel and EOC met in a joint meeting to discuss the framework and related accountability issues.

Three regional stakeholder meetings were also held in Charleston, Columbia, and Greenville in April of 2013. Approximately 57 individuals attended the meetings with half of the members of the cyclical review panel in attendance along with representatives of the State Board of Education, business and industry, public education, higher education, parents, and community. EPIC staff led the four-hour meetings, which focused on:

- Establishing the definition of and purpose of the state’s accountability system;
- Reviewing the accountability systems of four peer states, Florida, Georgia, Kentucky and New Hampshire. EPIC staff selected these states “based on the following criteria: (1) the accountability system has a clear theory of action that connects purpose, goals, and indicators; (2) at least one component of the state policy context mirrors the

environment of South Carolina; and (3) the state had recently undergone an accountability redesign process, reflecting the most contemporary educational policy agenda and available metrics for measuring school quality;<sup>2</sup> and

- Designing an accountability system with actual indicators.

Between August and December of 2013 members of the EOC discussed the framework and accountability system at each EOC meeting and received input from *TransformSC*, the initiative led by New Carolina, South Carolina's Council on Competitiveness, to transform the delivery system of education. The EOC also received a specific proposal from fellow board member John Warner, a business appointee to the EOC. Finally, the Academic and Standards Subcommittee of the EOC met in November to finalize the following findings and recommendations for the full EOC consideration at its December 9, 2013 meeting.

---

<sup>2</sup> Ibid.

## Findings

**The academic performance of students in public schools and school districts in South Carolina is measured and reported by two accountability systems that give conflicting messages to parents, educators and communities.**

*Quality Counts*, a publication of the education newspaper, *Education Week*, annually measures each state's public education performance against six indicators, assigning both a letter grade and a numeral score to each state. Overall in 2013 South Carolina ranked at the national average. On Standards, Assessments and Accountability, the indicators for which the EOC's core mission focuses, South Carolina earned a **Grade of A** and a numerical score of **94.4** along with a national ranking of 6<sup>th</sup> best in the nation.<sup>3</sup>

When the Education Accountability Act (EAA) of 1998 was enacted, there was not a separate federal accountability system. South Carolina was a forerunner in establishing a formal reporting system for public schools and school districts. With passage of the No Child Left Behind Act in 2001, South Carolina public schools have been accountable to two systems – the state accountability system that the EOC is charged with creating and the federal accountability system that once was based on Adequate Yearly Progress but now is governed by the Education and Secondary Education Act (ESEA) waiver as designed by the South Carolina Department of Education and approved by the United States Department of Education. Prior to the U.S. Department of Education's offer for states to receive waivers from certain requirements of the No Child Left Behind Act of 2001, 20 states had both a state and a federal accountability system.<sup>4</sup> Furthermore, to receive Title I funds, which total approximately \$212 million annually, South Carolina must participate in either No Child Left Behind or the ESEA waiver process.

---

<sup>3</sup> *Quality Counts, 2013*. Education Week. January 2013. < [http://www.edweek.org/ew/qc/2013/state\\_report\\_cards.html](http://www.edweek.org/ew/qc/2013/state_report_cards.html)>.

<sup>4</sup> National Governors Association. "Creating a College and Career Readiness Accountability Model for High Schools." January 29, 2012. <<http://www.nga.org/files/live/sites/NGA/files/pdf/1201EDUACCOUNTABILITYBRIEF.PDF>>.

While the two accountability systems use the same state assessments to measure performance, the systems are markedly different and create conflicting messages in schools and communities.

- The federal accountability system combines the absolute achievement and growth in achievement into one score across subgroups. Growth is the difference between the achievement of students in the prior year to students in the current year (two different groups of students); It should be noted that these cohorts are **NOT** the same students from year to year but compare the performance of students in the school in the prior year to the performance of students in the school in the current year (i.e. different cohorts of students.) The state system requires schools and districts to receive a status rating (Absolute Rating) and a separate growth rating (Growth Rating), which measures the improvement of **individual** student performance from year to year.
- The federal accountability system is based on **average scale scores** of students. These scores measure the **average** student performance in a school as well as average score of cohorts (students by ethnicity, disability, etc.) The federal system also measures gains made by subgroups of students. The state accountability system measures whether each **individual** student is meeting state standards or passing end-of-course assessments and the High School Assessment Program and whether each **individual** student improved from one year to the next. The state system focuses on whether students score Met, Not Met or Exemplary on the state assessment in grades 3 through 8, not on the individual student scale scores.
- Finally, due to the August release of the federal ratings, federal grades for high schools are based on the 2011-12, the previous school year's high school graduation rate and end-of-course assessments. The state ratings for high schools are based on the results of the 2012-13 school year graduate rate and assessment data.

District 2013 Federal and State Ratings

<b>Federal Rating</b>	<b>Number</b>	<b>%</b>		<b>State Absolute Rating</b>	<b>Number</b>	<b>%</b>
A	10	12%		Excellent	30	37%
B	32	39%		Good	20	24%
C	21	26%		Average	24	29%
D	9	11%		Below Average	6	7%
F	<u>10</u>	12%		At Risk	<u>2</u>	2%
Total	82				82	

**While South Carolina has witnessed sustained improvement in student performance since passage of the Education Accountability Act in 1998, the rate of improvement must accelerate to meet the 21<sup>st</sup> century needs of our state. Too many South Carolina students are still ill-served by the current public education system.**

Prior to enactment of the EAA in 1998, South Carolina:

- Did not have consistent standards in English language arts, mathematics, science and social studies across all districts and schools or assessments to measure student achievement across content areas;
- Did not publically report on the performance of schools or districts using consistent measures across time;
- Did not monitor individual student performance over time because unique student identifiers did not exist;
- Did not measure the achievement gaps between subgroups of students; and
- Did not know the graduation rate for its public schools because the reporting system was not available.

In the past fifteen years South Carolina students have made sustained progress. The state's graduation rate has improved from below 60 percent to 77.5 percent in 2013. South Carolina ranks in the top half of states in the percentage of students taking and passing Advanced Placement (AP) courses. South Carolina's average ACT scores increase annually. On the National Assessment of Education Progress (NAEP), South Carolina's reading and mathematics scores at grades 4 and 8 are consistently ranked 34<sup>th</sup> to 39<sup>th</sup> nationally.

However, even with the improvement, approximately 41 percent of students who enter the two-year technical college system today require remediation in English language arts and/or mathematics at a cost to taxpayers of \$21.0 million. And, one out of every four students who enters the 9<sup>th</sup> grade does not graduate with a high school diploma four or five years later.

By 2020 the Georgetown University Center on Education and the Workforce projects that 62 percent of the job openings in South Carolina will require postsecondary education.<sup>5</sup> Of these jobs, 34 percent will require some college, an associate's degree or some postsecondary vocational certificate.<sup>6</sup> As of 2011 the United States Census Bureau reports that only 34 percent of the working-age population in South Carolina had at least an associate degree. Appendix B includes a list by county of the percentage of working-age population with at least an associate's degree. The relationship between public and higher education has never been so critical to the economy of our state and to the future of our citizens.

Educational attainment is highly correlated with personal income. The percentage of South Carolina's adult population graduating from high school and from college trails the nation as a whole, and as a result per capita personal income is below the national average. If per capita personal income was at the national average, there would be \$19 billion more personal income in South Carolina. (Appendix C) Few investments the state can make will have a bigger impact of the economic prosperity of our citizens than changes in the accountability and assessment system to provide the data and the flexibility for public schools to be transformed.

Based upon the results of the stakeholder meetings and input from the cyclical review panel, the following recommendations are presented to the EOC for consideration:

---

<sup>5</sup> *Recovery: Job Growth and Education Requirements Through 2020*. State Report. Center on Education and the Workforce, Georgetown University. June 2013. <http://cew.georgetown.edu/recovery2020/states/>

<sup>6</sup> *Ibid.*

## Recommendations

### **A. South Carolina should redefine what a strong academic foundation means for students and the goal of the State accountability system.**

The original goal of the Education Accountability Act was “to establish a performance based accountability system for public education which focuses on improving teaching and learning so that students are equipped with a strong academic foundation.” The stakeholders defined a strong academic foundation for 21<sup>st</sup> century students as having a strong foundation in the basics, literacy and numeracy **and** in higher-order thinking skills. Other descriptors included students being college and career ready, having a love of learning, being global and digital literate, and having soft skills such as collaboration and personal responsibility. Consequently, the goal of the State’s accountability system for public education should be as follows:

**All students graduating from public high schools in South Carolina should have the knowledge, skills, and opportunity to be college ready, career ready, and life ready for success in the global, digital and knowledge-based world of the 21<sup>st</sup> century.**

**All graduates should qualify for and succeed in entry-level, credit bearing college courses without the need for remedial coursework, in postsecondary job training, or significant on-the-job training.**

This definition supports the Vision and Profile of the Successful Graduate as developed and adopted by the South Carolina Association of School Administrators and supported by *TransformSC* (Appendix D) And, the “student-centered” focus is consistent with the State Superintendent of Education’s recommendations for modernizing the EAA with a personalized system.

In 2013 the Arkansas legislature enacted Act 1081 which defines college and career readiness succinctly as:

“a set of criterion-referenced measurements of a student's acquisition of the knowledge and skills the student needs to be successful in future endeavors, including credit-bearing, first-year courses at a postsecondary institution, such as

two-year or four-year college, trade school, or technical school, or to embark on a career.”

Florida defines students as college and career ready when they have “the knowledge, skills, and academic preparation needed in introductory college credit-bearing courses within an associate or baccalaureate degree program without the need for remediation. These same attributes and levels of achievement are needed for entry into and success in postsecondary workforce education or directly into a job that offers gainful employment and career advancement.”<sup>7</sup> Knowledge focuses on mastery of standards as well as higher levels of demonstrated competencies as measured by SAT, ACT, Advanced Placement, International Baccalaureate or Dual Enrollment. The term “skills” includes: effective communication skills; critical thinking and analytical skills; good time management skills; intellectual curiosity and a commitment to learning. Academic preparation encompasses students earning 24 credits, four each in English and mathematics and three each in science and social studies with one course taken online.

### **B. South Carolina must set goals to measure and improve college, career, and citizenship readiness.**

Such goals would communicate the vision to the public, demonstrate the importance, and inspire transformative changes in the delivery of education. These goals would be set collaboratively with early childhood education, public education, postsecondary education, parents, and business. Annually, the EOC would monitor the state’s progress toward these goals.

In 2010 the National Governors Association recommended that state leaders measure five key college- and career-ready performance measures:

1. Percentage of students completing (or on track to complete) a college- and career-ready course of study
2. Percentage of students demonstrating proficiency on “anchor” assessments
3. Percentage of students obtaining college credit or a career certificate in high school
4. Four-year cohort graduation rate

---

<sup>7</sup> Florida Department of Education. Division of Florida Colleges. Accessed on August 27, 2013. <<http://www.fldoe.org/fcs/collegecareerreadiness.asp>>.

5. Percent of traditional, first-year students enrolling in remedial coursework at a postsecondary institution.<sup>8</sup>

**C. South Carolina should move from an assessment system to a balanced system of multiple measures that give comprehensive, valid and vital data to ensure that every student is prepared for the 21<sup>st</sup> century.**

The measures used to determine how well our children are prepared for the 21<sup>st</sup> century will require accountability for the **knowledge, skills, and opportunity** that students acquire. These terms are defined below:

**Knowledge** – Do all students have the knowledge to be successful in the 21<sup>st</sup> century?

At the elementary and middle levels, knowledge would focus on measuring student understanding of content standards. Specifically, schools and districts should be held accountable for:

- Absolute scores on English language arts and mathematics in grades 3 through 8 and expanding to include science and social studies in grades 4 through 8 for all students with equal weighting of each content area in the state accountability system. Stakeholders wanted to focus on students having the numeracy and literacy skills needed by third grade;
- Student growth scores on assessments in English language arts, mathematics, science and social studies to measure development over time;
- Reporting on subgroup scores to close achievement gaps; and
- Improving the performance of the bottom 25 percent of students to focus on students who need the most help and could be missed in subgroup data if the cohort size is too small.

At the high school level, the stakeholders resoundingly believed that while graduating from high school is important, it is no longer sufficient. Instead, student assessments used at the high school level should have a dual purpose: (1) accountability; and (2) the future goals of the

---

<sup>8</sup> *Setting Statewide College- and Career-Ready Goals,*” NGA Center for Best Practices. August 5, 2010.

student; i.e. college and career. The stakeholders emphasized the need to have a measure that has “high currency outside of the accountability system.” Consequently, the framework should include a variety of a variety of assessments that measure both career and college readiness such as:

- Silver level or higher on WorkKeys;
- Armed Services Vocational Aptitude Battery;
- Compass; and
- ACT, SAT or Smarter Balanced 11<sup>th</sup> grade assessment.

The EOC endorses the replacement of the High School Assessment Program with assessments that measure college and career readiness. The two-year technical colleges already use Compass, an ACT product; the four-year colleges and universities in the state accept ACT Plus Writing scores in making admission decisions; and Governor Haley, in collaboration with the business community, has implemented SC Work Ready Communities. Given these facts, the EOC would recommend that South Carolina provide to every student in public schools the following:

All students in the 11th grade would take WorkKeys **and** ACT plus Writing. Based upon the results of the assessments, students would then receive in their 12<sup>th</sup> grade year either the remediation needed to become college and career ready or opportunities such as dual enrollment or internships to begin the next step in their jobs and career.

To address the conflicting messages over the state and federal accountability systems, the state rating for **knowledge** should be consistent with the federal rating, if at all possible. In addition, the use of student growth in the knowledge measurement is consistent with the State Superintendent of Education’s recommendations to combine student achievement and student growth into one measure of performance.

**Skills** – Do all students have the skills to be successful? These skills include the higher order thinking skills that stakeholders value including the ability to conduct sustained research; analyze information; experiment and evaluate; communicate in various forms; use technology; collaborate with others, problem solve; and persist.

A 2012 report by the RAND Corporation evaluated 17 state assessments and determined that fewer than 2 percent of the mathematics test items and 21 percent of the English language arts test items tested students' abilities to analyze, synthesize, compare, connect, critique, hypothesize, prove or explain their ideas.<sup>9</sup> What is most troubling is that these were 17 states evaluated to have the most rigorous standards and assessments.

No standardized assessment can adequately measure these abilities. Instead, states like New Hampshire and others are using quality **extended performance tasks** to measure these skills. These extended performance tasks engage students in applying their knowledge and skills to a problem or challenge. At the high school level, extended performance tasks could be linked to work-based learning, internship opportunities and service learning projects. The results of the performance tasks would be submitted to the local school board of trustees.

According to the Center for Collaborative Education, quality performance tasks “get at essential questions of curriculum and instruction: What content is most important? What do we want learners to be able to do with their learning? What evidence will show that students really understand and can apply learned content?”<sup>10</sup> Performance tasks are comparable to the assessments used in the performing arts.

Nationally, organizations are creating test banks with extended performance tasks that South Carolina should have the opportunity to use. Designing rubrics and training teachers in how to assess the results of the tasks would be the next step. Two school districts, Lexington 1 and Saluda County School Districts have volunteered to work with the EOC to pilot assessments of extended performance tasks.

Expanding the accountability functions of the local school boards of trustees will require board members to receive ongoing professional development and training. The recommendation is

---

<sup>9</sup> Yuan, K. & Le, V. (2012). Estimating the Percentage of Students Who Were Tested on Cognitively Demanding Items Through the State Achievement Tests. Santa Monica, CA: RAND Corporation.

<sup>10</sup> *Quality Performance Assessment: A Guide for Schools and Districts*. Center for Collaborative Education. Boston, MA. 2012.

that annually each school board member attends three hours of training in each of the following four key policy areas for a total of twelve hours of continuing education training each year: (1) fiscal (2) accountability; (3) leadership; and (4) communication.

**Opportunity** – Do all students have the opportunity to be successful? The stakeholder groups identified several potential input measures whose inclusion in an accountability system could incentivize investment in a whole school curriculum and allow for multiple pathways that address college, career and life readiness.

Teacher and principal evaluations were recommended by stakeholders as a means to hold adults accountable for the overall school rating. These evaluations would include student academic achievement with a focus on student growth from one year to the next.

Within the classroom, which is the most important change agent, the quality of teachers is critical. Stakeholders also emphasized the importance of school climate surveys of teachers, students and parents.

*“School environment is one of the most important measures of school and district performance, but it is often overlooked.”<sup>11</sup>*

*National Governors Association*

Finally, beyond summative assessments at the end of the year, access to, participation in and performance on other measures and assessments are important including:

- Arts programs;
- Gifted and talented programs;
- World languages;
- Dual enrollment courses;
- Approved industry certification exams;
- IB/AP exams;
- Dropout recovery programs;

---

<sup>11</sup> “Creating a College and Career Readiness Accountability Model for High Schools.” January 29, 2012. National Governors Association. <<http://www.nga.org/files/live/sites/NGA/files/pdf/1201EDUACCOUNTABILITYBRIEF.PDF>>.

- Virtual or online learning;
- Students completing a college application;
- Students filling out a FAFSA form; and
- Students completing an individualized graduation plan

The National Governors Association in 2012 proposed that “schools and districts should receive additional credit for supporting all students on the path to college and career readiness with a special emphasis on hard-to-serve student populations. . . . States could give more weight to a school’s scores on measures for students” who are “overage and undercredited, limited English proficient, or receiving special education services and those who scored in the bottom 25 percent on assessments in eighth grade.”<sup>12</sup>

The relationship between public and higher education has never been so critical to the economy of our State and to the future of our citizens. The stakeholders prioritized other measures including college acceptance rates, college persistence rates, and college matriculation rates. With development and implementation of the South Carolina Longitudinal Information Center for Education (SLICE), the State will have in the future the ability to report on the success of students in post-secondary institutions. Such data could be useful in the redesign of the high school curriculum.

In September of 2013 the Colorado Department of Higher Education released an online, searchable database that provides information on college-going rates, first-year postsecondary outcomes, concurrent enrollment and remedial education for the graduates of each school district.<sup>13</sup>

**D. In addition to public reporting, accountability requires that standards for the core content areas and assessments be aligned to the mission and goals.**

---

<sup>12</sup> “Creating a College and Career Readiness Accountability Model for High Schools.” Page 7.

<sup>13</sup> District At A Glance. Tracking the Success of High School Graduates. Colorado Department of Higher Education. Accessed on September 6, 2013. < <http://highered.colorado.gov/Publications/districtataglance/districtglancedefault.html>>.

**E. To accelerate improvement, professional educators must be empowered to deliver new forms of radically, personalized, technology-embedded, education. The accountability system must be flexible enough to allow and even support schools and districts to be incubators of change.**

The EOC supports the recommendation of the State Superintendent of Education to personalize learning and the initiative of *TransformSC*. Assessing both the mastery of knowledge and the attainment of higher-order thinking skills requires a balance of objective and subjective assessments. Formative assessments are the most effective at improving teacher and student performance.

In a sentence, the South Carolina public education system, and the accountability system that supports it, should be transformed as follows.

Learning must be personalized to each student including project-based learning, real-time diagnostic assessments, and technology-infused instruction.

A new accountability system balanced between summative, objective and subjective approaches will empower teachers as professionals even in existing classrooms to own the delivery of and accountability for their students mastering knowledge and gaining knowledge and higher-order thinking skills. It can result in students taking more ownership of their own education.

A new accountability system personalized to students empowers entrepreneurial educators to deliver new forms of radically personalized, technology-enabled education that can co-exist with current public schools. Once accountability is at the level of individual students progressing at their own pace and assessments provide teachers real-time data to guide their students, the stage is set for the fundamental transformation of the entire public education system sought by parents, teachers, business leaders, and community advocates. Below are the essential elements of the accountability framework we recommend.

- ***Learning must be more personalized to each student.*** Personalizing learning allows students to advance through the standards at an individual pace, allowing advanced students to move faster and students requiring more time to master earlier standards before moving onto later ones.

- **Learning must include project-based learning.** In addition to objective measures of the mastery of knowledge, project-based learning requires subjective assessments by professional teachers. For example, students develop higher-order thinking skills through activities such as artistic works or science projects, which teachers subjectively assess using rubrics to ensure consistency. Balanced objective and subjective assessments are important even in the earliest grades. Higher-order thinking skills include the ability to conduct sustained research, analyze information, experiment, and persist. In addition to individual skills, communication, teamwork, and collaboration are essential skills.
- **Learning must include real-time diagnostic assessments.** For teachers to become the empowered professionals, more assessments should be formative providing real-time data to teachers and parents so appropriate support can be provided to improve student learning.
- **Learning must include technology-infused instruction.** Merely loading an existing classroom with technology likely will yield marginal improvements at best because it doesn't fundamentally change the way the classroom is managed. Like personalizing education, it is easy to imagine more transformational forms of technology infused instruction. A novel system of highly personalized education delivered through mobile devices was demonstrated by a college student at the first *TransformSC* forum in the spring of 2013. This would be the transformative equivalent of a digital book being delivered by Amazon.com to a Kindle versus a physical book being sold in a Barnes and Noble store. These are profoundly different experiences of consuming books. Transformed education will be a profoundly difference experience of education.

Many of the schools and districts participating in *TransformSC* are using project-based learning and blended learning approaches to instruction. Other examples include the two high schools in South Carolina that are implementing the New Tech Network this year: Scotts Branch High School in Clarendon 1 and Cougar New Tech High School in Colleton County. Project-based learning is the instructional approach of these New Tech schools. Next High, a charter high school that will be opening in Greenville in 2015, will also employ project-based learning and web-delivered curriculum. These projects build upon pathways that represent the disciplines and skills in greatest demand relative to the regional industry and economic clusters of the community.

To facilitate the innovation, schools and districts that are transforming the delivery system of education may need to be exempted from the state accountability system for a specified time.

Instead, these schools or districts would report publically on student mastery of learning using alternative measures rather than summative assessments.

**F. South Carolina must evaluate and amend existing policies to remove barriers to transformation.**

Are there barriers that restrict the number of high school students who take dual enrollment classes? Do the policies and guidelines that govern the state scholarships funded by the lottery deter students from taking challenging courses? How can South Carolina prepare, recruit, retain and empower highly qualified teachers to lead the transformation, especially in historically low-achieving schools?

Because teachers are no longer the providers of information and instead are the facilitators of learning, the transformative shift in pedagogy will require changes in pre-service teacher education programs, extensive professional development for existing teachers, especially in school districts without the local capacity, and expansion of wireless Internet access throughout the school building for portable devices.

Teachers are the critical component of transforming the delivery system of education. Consequently, South Carolina must invest in transforming the preparation of teachers by our colleges and universities for the 21<sup>st</sup> century classroom and the delivery of instruction in the classroom.

- Students in our colleges of education must have more hands-on practicum experience in schools before becoming classroom teachers as well as more knowledge of the needs of the 21<sup>st</sup> century graduate.
- Current and future teachers must transform their classroom instruction. No longer are teachers the provider of information; they are the facilitators of learning. Students can find knowledge from multiple sources; however, students must learn to think, analyze, collaborate, problem-solve and communicate.
- Blended learning opportunities using virtual courses and virtual coaching are necessary for both teachers and students.

## Appendix A

### Members of the Cyclical Review Panel

<b>Name</b>	<b>Representative of or Expertise in:</b>
Dr. Larry Allen, Clemson University	Higher Education
Dr. Cynthia Ambrose, Horry County School District	District Office/ Academic Officer
Ms. Mona Lisa M. Andrews, Florence 2 School Board	Local School Board of Trustees
Mr. Mike Brenan, President BB&T South Carolina	Business and Industry State Board of Education
Dr. Ray Brooks, President, Piedmont Technical College	Higher Education
Mr. Jon Butzon, Charleston	Community Leader
Dr. Jennifer Coleman, Richland 1	District Office/Accountability, Assessment, Research and Evaluation
Dr. James R. Delisle	Gifted and Talented Education
Mr. Jim Dumm, Tara Hall Home for Boys	Community Leader
The Honorable Mike Fair	Legislator
The Honorable Nikki Haley	Governor
Mrs. Jan Hammond, Lexington 2	Classroom Teacher
The Honorable Chip Jackson, Richland 2	Local School Board of Trustees
Dr. Rainey Knight, Darlington	District Superintendent
Ms. Charlie Jean "CJ" Lake, Saluda	Recent Student
The Honorable John W. Matthews	Legislator
Mrs. Amy McAllister	State Teacher of the Year
Mr. Charles O. Middleton, Jr.	Educator/Public Charter Virtual School
Ms. Glenda Morrison-Fair, Greenville County School District	Local School Board of Trustees
Mr. Wesley Mullinax	Business and Industry
Ms. Maggie Murdock	Parent
Ms. Linda O'Bryon	President SC ETV
Dr. Darryl F. Owing, Spartanburg 6	District Superintendent
Mr. Arthur Perry	Business Leader
The Honorable Joshua A. Putnam	Legislator
Mr. Jim Reynolds	Business Leader
Dr. Janet Rose, Charleston	Retired Educator
Mr. Phillip E. Waddell, Columbia	Business Leader
Dr. Gary West, Jasper County School District	District Office/Finance and Data Management
Dr. Leila W. Williams, Colleton	District Superintendent
Dr. Reginald Harrison Williams	Early Childhood Specialist
Dr. Carol B. Wilson, Upstate	Parent and Higher Education
Ms. Lee Yarborough, Greenville	Business Leader
The Honorable Mick Zais	State Superintendent of Education
Mr. Bernie Zeiler	Business Leader

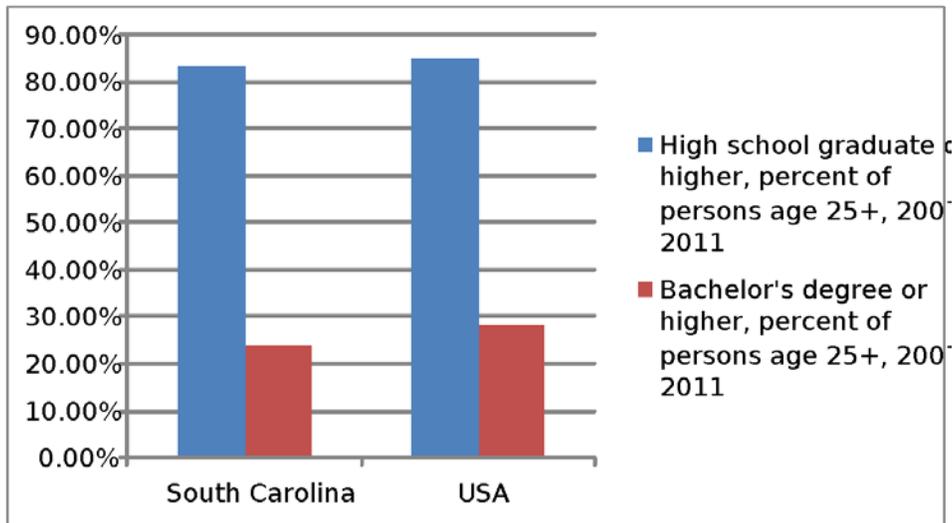
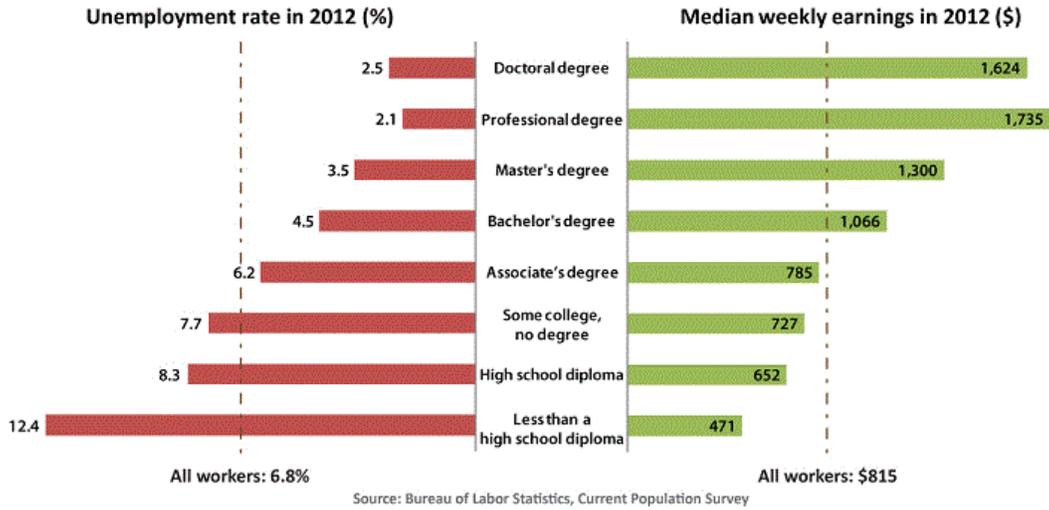
**Appendix B**  
**Percentage of South Carolina adults (ages 25-64)**  
**with at least an associate degree by county**

Abbeville	26.03	Orangeburg	25.73
Aiken	32.63	Pickens	34.28
Allendale	18.68	Richland	46.60
Anderson	30.09	Saluda	21.45
Bamberg	35.93	Spartanburg	32.55
Barnwell	21.19	Sumter	28.82
Beaufort	42.18	Union	22.65
Berkeley	29.77	Williamsburg	18.79
Calhoun	31.39	York	39.99
Charleston	47.75		
Cherokee	20.56		
Chester	19.89		
Chesterfield	20.69		
Clarendon	21.56		
Colleton	21.08		
Darlington	24.58		
Dillon	15.72		
Dorchester	36.92		
Edgefield	25.73		
Fairfield	25.73		
Florence	31.43		
Georgetown	30.13		
Greenville	40.93		
Greenwood	32.72		
Hampton	18.68		
Horry	33.37		
Jasper	15.74		
Kershaw	28.29		
Lancaster	27.65		
Laurens	23.92		
Lee	16.03		
Lexington	38.92		
McCormick	27.79		
Marion	20.51		
Marlboro	12.93		
Newberry	30.54		
Oconee	32.21		

Source: U.S. Census Bureau, 2007-2011 American Community Survey 5-Year Estimates

## Appendix C

### Earnings and unemployment rates by educational attainment



#### Per capita money income in the past 12 months (2011 dollars)

United States	\$ 27,915
South Carolina	\$ 23,854
Difference	\$ 4,061
South Carolina population	<u>4,723,723</u>
Additional per capita income if South Carolina was at the US average	<u>\$19,183,039,103</u>

**Appendix D**  
**2020 Vision Committee**  
**Superintendents' Roundtable**  
**(February 2013)**

A clear picture of the new high school graduate will enable schools to best accomplish the goals of preparing students for the future.

Our vision for high school graduates is based on an education compass directed toward the future. Our vision and profile of our high school graduate follows. This vision is crafted toward preparing students for success and our communities, state and nation for prosperity in the 21st century world.

## Vision of the EDCompass Graduate

***“The EDCompass graduate of the K-12 public schools of South Carolina will be equipped for careers and college, lifelong learning and civic life in a global, digital and knowledge based world.***

***Our graduates will be creative, critical thinkers, problem solvers, collaborators, capable communicators and ethical.”***

## Profile of the EDCompass Graduate

### World Class Knowledge:

1. Rigorous standards in language arts and math for college and career readiness
2. Multiple languages, science, technology, engineering and mathematics (STEM), arts and social sciences

### World Class Skills:

1. Creativity and innovation
2. Critical thinking and problem solving
3. Collaboration and teamwork
4. Communication, information, media and technology
5. Knowing how to learn

### Life and Career Characteristics:

1. Integrity
2. Self-direction
3. Global perspective
4. Perseverance
5. Work ethic
6. Interpersonal skills

