

# W. J. Keenan High School



## AdvancED STEM Indicator

6.11: STEM teachers and leaders participate in a continuous program of STEM-specific professional learning.



## **6.11: STEM teachers and leaders participate in a continuous program of STEM-specific professional learning.**

- Technology proficiency standards for teachers and administrators
- STEM PD survey October 2014
- Samples of teacher professional development schedules and registrations



Based on  
ISTE standards



Includes CRTs  
Guidance  
Speech path  
Special Ed  
Coaches  
PACE

## TECHNOLOGY PROFICIENCY EXPECTATIONS Certified Staff (School Level) 2014-2015

1

### Engage in Professional Growth and Leadership

- Participate in a minimum of 3 seat hours of technology focused professional development.
- Technology professional development that is facilitated by someone other than the Instructional Technology Services department must be approved by the immediate supervisor/principal.

2

### Promote and Model Digital Citizenship and Responsibility

- Engage in activities that help students to practice safe, legal, and responsible use of information and technology (i.e. observance of policies including AUP, BYOD, Copyright, and Fair Use, ISAFE curriculum, and proper citations).

3

### Use Digital Media To Communicate To Multiple Audiences

- Maintain an informative eChalk Class Web Page that includes an updated account profile, an updated Announcements section, course syllabus or parent letter posted to the Resources section, Calendar Events for major assessments or projects, and additional instructional resources.

4

### Design and Develop Digital Age Learning Experiences

- Plan and implement a project based lesson that effectively integrates the use of technology. The lesson should include one of the following activities:
  - The lesson plan includes a virtual learning activity involving students collaborating with other teachers, experts or students at a distance (i.e. video conference, Skype, Google Hangouts, Facetime, WebEx web conference).
  - The lesson integrates the use of technology and culminates in a student project, product or event (i.e. Mutual Literacy Festival entry, school based technology showcase event, parent night, or classroom/school display).

All certified staff will join the correct Edmodo Technology Proficiency Group and upload appropriate supporting documentation for each expectation listed above.







## TECHNOLOGY PROFICIENCY EXPECTATIONS Administrators (School Level) 2014-2015

1

### Engage in Professional Growth

- Participate in a minimum of 3 seat hours of technology focused professional development.
- Technology professional development that is facilitated by someone other than the Instructional Technology Services department must be approved by the immediate supervisor/principal.

2

### Promote and Model Digital Citizenship and Responsibility

- Engage in activities that help students and/or staff to practice safe, legal, and responsible use of information and technology (i.e. observance of policies including AUP, BYOD, Copyright, and Fair Use, ISAFE curriculum, and proper citations).

3

### Provide Visionary Leadership

- Facilitate purposeful planning and change that maximizes use of digital age resources
- Meet and exceed learning goals, support effective instructional practices (i.e. school renewal plan, allocations of funds, technology professional development planning, facility and infrastructure needs).
- Strengthen the teaching and learning process through effective use of technology and data collection (i.e. walkthroughs, Observation 360, performance evaluations and PLCs).

4

### Promote Digital-Age Learning Culture

- Model and promote the frequent and effective use of technology
- Integrate the use of technology tools and resources that maximize workplace productivity. (i.e. Microsoft Office and Email).
- Communicate relevant information to students, parents, colleagues and the community using a variety of digital tools and formats (i.e. WebEx, Professional Learning Communities, Edmodo groups and eChalk).

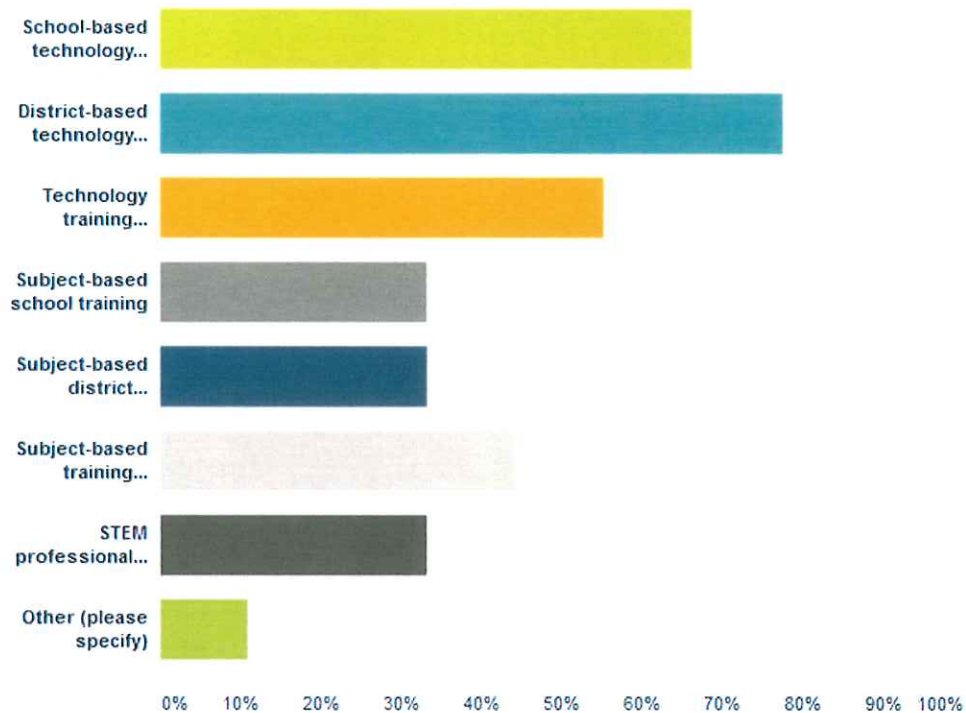
All certified staff will join the correct Edmodo Technology Proficiency Group and upload appropriate supporting documentation for each expectation listed above.





# What STEM professional development activities have you attended over the past year? Check all that apply:

Answered: 9 Skipped: 0



| Answer Choices   | Responses          |
|--|--------------------|
| School-based technology training   | 66.67% 6           |
| District-based technology training   | 77.78% 7           |
| Technology training outside of district (Tech conference, USATestPrep conference, etc) | 55.56% 5           |
| Subject-based school training  | 33.33% 3           |
| Subject-based district training  | 33.33% 3           |
| Subject-based training outside of district (conferences, certification classes, etc)   | 44.44% 4           |
| STEM professional development outside of discipline(s) taught                          | 33.33% 3           |
| Other (please specify)   | Responses 11.11% 1 |

Total Respondents: 9

Percent of respondents self-reporting participation in various levels of STEM professional developments.



## What other STEM-based professional development would you like to attend, if given the opportunity?

Answered: 9 Skipped: 0

● Responses (9) Text Analysis My Categories

Categorize as... Filter by Category

Showing 9 responses

I would like to attend the Stem training in Akien on October 28th, on how to incorporate STEM activities to teach numbers and quality standards in Algebra. I will be attending the December 9th professional development on incorporating STEMS to teach functions in Algebra.  
10/22/2014 7:17 PM [View respondent's answers](#)

Project based learning opportunities for students with weak reading skills.  
10/22/2014 12:21 PM [View respondent's answers](#)

Project Lead the Way  
10/21/2014 9:51 AM [View respondent's answers](#)

Subject based training outside of district  
10/21/2014 8:10 AM [View respondent's answers](#)

STEM professional development, technology training, and subject based training.  
10/21/2014 7:15 AM [View respondent's answers](#)

national conferences  
10/20/2014 1:48 PM [View respondent's answers](#)

I am looking forward to attending the Flipped Classroom Seminar in November.  
10/20/2014 1:41 PM [View respondent's answers](#)

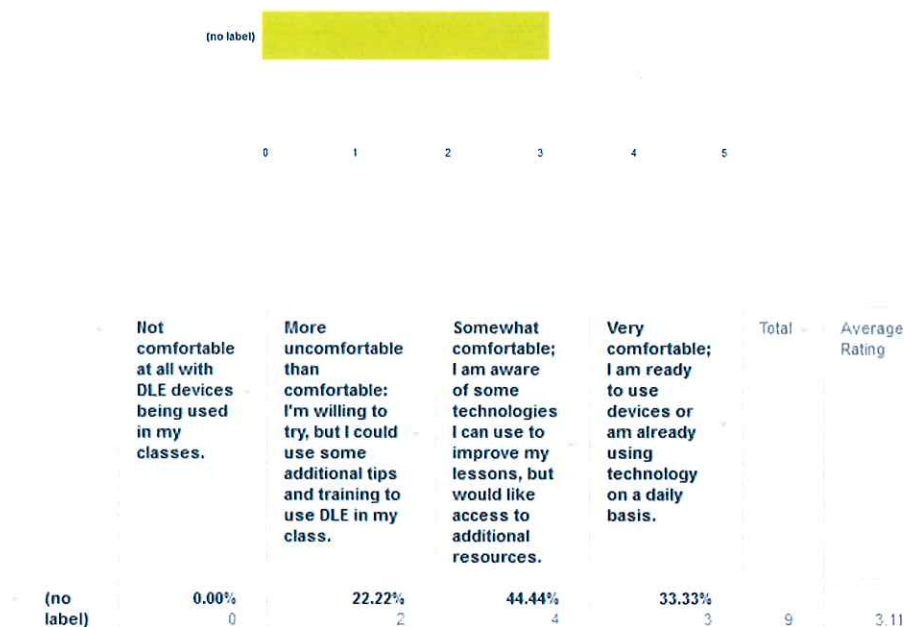
Flipped Classrooms  
10/20/2014 1:05 PM [View respondent's answers](#)

I would like to become certified in AP computer science.  
10/20/2014 12:25 PM [View respondent's answers](#)

Responses show STEM instructors have clear vision on what trainings they would like to attend (above) and are mostly comfortable with integrating student learning devices into the classroom (below).

## Regarding technology and use of DLE devices in the classroom, how comfortable are you with integrating student learning devices into your classes?

Answered: 9 Skipped: 0





Tammy H. Adams

Summer of 2012 – TI-Nspire Calculator Professional Development July 16-July 18<sup>th</sup>

Fall of 2012 - Probability & Statistic for Secondary Math Teachers

Summer of 2013- AP Calculus Endorsement Training

October 5, 2013- Using TI-Nspire calculator to teach Common Core Math Standards

Summer of 2014- AP Computer Science Endorsement Training

Fall of 2014 – AIMS PD- September 18<sup>th</sup>, November 20,

Winter of 2014 –STEM PD December 9<sup>th</sup> : Using STEM activities to teach Functions

Spring of 2015- AIMS PD January 29<sup>th</sup>, March 12<sup>th</sup>





Kirstin Bullington- STEM and 21<sup>st</sup> Century Learning PD

February-May 2013: MITx Intro to Biology: The Secret of Life (MOOC)

June 2013: Siemens' Teachers as Researchers Fellowship, Oak Ridge National Laboratory

October 2013: Presented at EdTech conference, Greenville, SC

November 2013: National Association of Biology Teachers' Conference, Atlanta

February 2014: Hummingbird Robotics Kit Workshop, IT-oLogy

June 2014: Analyzing the SC Science and Engineering Practices (district training)

June 2014: PLTW Certification in Computer Science and Software Engineering

July 2014- Human Microbiome Online Course, Genetics Learning Center, University of Utah

October- December 2014: Building Global Competencies: Teachers for Global Classrooms (IREX)

October 23-24<sup>th</sup>, 2014- Project-Based Learning

November 2<sup>nd</sup>-3<sup>rd</sup>, 2014- Digital Learning National Summit, New Orleans



2014 EDUCATION AND BUSINESS SUMMIT REGISTRATION FORM  
GREENVILLE'S TD CONVENTION CENTER  
JUNE 22-25, 2014

(AN SCDE-APPROVED CERTIFICATE RENEWAL EVENT)

Name Billie Southard First Name for Name Badge Billie  
E-mail Address (required) bsouthard@richlandone.org  
Home Address 206 Winding Wood Circle  
City Blythewood State SC Zip Code 29016  
Home Phone 803-530-5973 Work Phone 803-714-2500 ext5114  
School/Business Name W J Keenan High  
School District (if applicable) Richland One

SCACTE Member: ☐ Yes ☐ No

**CERTIFICATE RENEWAL: (Educators in Industry Courses)**

Are you interested in attending the 2014 Education and Business Summit to earn certificate renewal credit? Please indicate your course preference below. **By checking the certificate renewal box on the registration form, you are indicating that you plan to register for certificate renewal credit through the South Carolina Department of Education.** Prior approval from your district may be required. Please note the required seminar on Sunday afternoon, June 22, 2014, at 1:00 p.m. and the requirement to attend the Summit pre-conference sessions. Additional certification information details are provided in this document.

☐ Educators in Industry ☐ \*Educators in Industry, Advanced ☐ \*Educators in Industry, Implementation  
\*Prerequisite course(s) required

**SUMMIT REGISTRATION FEE:**

☐ EARLY BIRD REGISTRATION - before April 1, 2014 (\$90.00)

☐ STANDARD REGISTRATION - April 1 through June 15, 2014 (\$100.00) (After June 15 registration will only be accepted on site.)

☐ ON-SITE REGISTRATION FEE (\$110.00)

Conference registration fee includes the Summit program, Summit materials, Summit parking at the TD Convention Center, Sunday's reception, continental breakfasts, lunches, and afternoon breaks Monday through Wednesday. **Make checks, money orders, or purchase orders PAYABLE TO USC.** A confirmation will be mailed upon receipt of your paid registration.

Registration will be on a first-come basis. Inquiries regarding registration should be made by calling 803-777-1515. Payment must be attached to a completed registration form. **Participants' registration forms must accompany the purchase order and must list all participant(s) on the purchase order.** Purchase orders will be billed for all persons registered regardless of their attendance. Incomplete registrations will be returned. **Note: Registration fees are not refundable.**

**ENCLOSED FEE:**

**TOTAL AMOUNT ENCLOSED**

\$ \_\_\_\_\_

**PAYMENT METHOD:** ☐ Check

☐ Purchase Order (PO must be attached and show participant name(s).

☐ VISA

☐ MasterCard

☐ Discover

☐ American Express

Acct #: \_\_\_\_\_

Name on Credit Card: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Cardholder's Signature (Required): \_\_\_\_\_ Today's Date: \_\_\_\_\_

Credit card registrations may be completed by FAX transmission. Please transmit completed registration form with method of payment to 803-777-3035. The USC Federal Tax I.D. number is 57-6001153.

☐ I am disabled and may require assistance from conference staff.

**MAIL REGISTRATION FORM AND PAYMENT TO:** 2014 Education and Business Summit  
University of South Carolina, 113B Wardlaw  
Columbia, South Carolina 29208

ENRL \_\_\_\_\_ LOG# \_\_\_\_\_ MTH \_\_\_\_\_ APPVL \_\_\_\_\_ RECP# \_\_\_\_\_ RFDATE \_\_\_\_\_

