



Glenda Ritz, NBCT
Indiana Superintendent of Public Instruction

Teachers' Toolbox

A content focused resource for classroom instruction

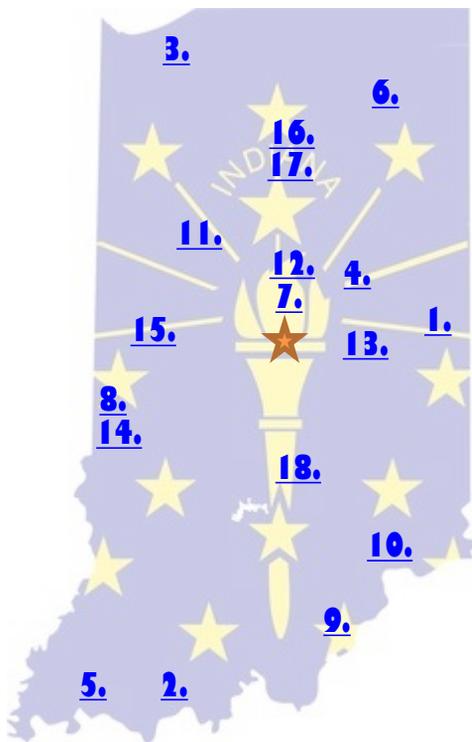
Find past editions of Teachers' Toolbox [here](#).



Summer 2016

Teacher Summer: Wander our state, feed your brain, and enhance your lessons!

As Hoosiers know, Indiana has so many great sights to see and visit! Below is a list of some places that would not only be fun to visit, but may enhance classroom content.



1. [Levi Coffin House](#)
2. [Lincoln Boyhood Home](#)
3. [Indiana Dunes State Park](#)
4. [Mounds State Park](#)
5. [Reitz Home Museum](#)
6. [Fort Wayne Zoo](#)
7. [James Whitcomb Riley Museum Home](#)
8. [CANDLES Holocaust Museum](#)
9. [Falls of the Ohio River/George Rogers Clark Home Site](#)
10. [Clifty Falls State Park](#)
11. [Prairie Grass Observatory](#)
12. [Conner Prairie](#)
13. [Indiana Basketball Hall of Fame](#)
14. [Swope Art Museum](#)
15. [Park County Covered Bridges](#)
16. [Amateur Circus Capital of the World](#)
17. [Historic Sites/Old Ben](#)
18. [Columbus Architecture Tour](#)

Locations on map are approximate.

CCR Bridge Courses

Literacy and Math Readiness Course Training in Indiana

The CCR Bridge courses are two new courses for students who have completed the minimal requirements (with course grades of C- and/or D) for college preparatory work, but who still need support with the transition to college courses and with testing at the required level on placement assessments. The CCR Bridge courses will help students learn skills necessary to successfully meet the requirements for college-level English and Mathematics courses. [Registration Link](#) Literacy Ready: Contact [Jill Lyday](#); Math Ready: Contact [Bill Reed](#)

CCR Bridge: Literacy Ready

- 2 units ELA
- 2 units History
- 2 units Science

CCR Bridge: Math Ready

- Emphasizes understanding of mathematics concepts
- Engages students in real-world applications
- Develops critical thinking skills

From Around the DOE: Office of eLearning

Our colleagues in the eLearning division have many great things to share with teachers. Have you checked out their IDOE [website](#)? Here are a couple of highlights from the eLearning team!

[eLearning Book Club](#)

- In preparation for the Indiana Digital Citizenship Week September 12-16, our INeLearn summer book selection will be the newly released [Digital Citizenship: A Community-Based Approach](#) by Susan Bearden
- **Book study will begin July 25th**
- Seven weeks of virtual discussion
- Up to **14 PGP**s will be awarded to book club participants.



Blogger

[eLearning Pinterest Boards](#)

- eLearning has developed many edtech and classroom technology Pinterest boards for teacher to follow
- [1:1 General Resources](#)
- [All Things PBL](#)
- [Digital Content: World Language](#) ←other contents, too!
- [Absolutely All About Apps](#)
- [Twitterific](#)



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Alternative Education

Teachers' Toolbox

Alt Ed Specialist: [Julia Johns](#)

Summer 2016

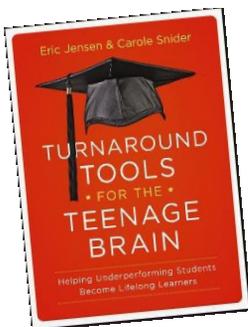
Important Dates:

- [Alternative Education Grant Renewal](#) for SY2016-17 ends Friday July 1, 2016
- [New program proposal](#) for first semester start day is Friday July 1, 2016
- [DOE-AL Reporting](#) for SY2015-16 ends Friday July 15, 2016
- [New Program Proposals](#) for SY2016-17 deadline is Friday July 1, 2016



Summer Book Club

FYI for those participating in our Summer Book Club - Eric Jensen will be speaking in Indy on July 21, 2016. Please [click here](#) for more information ☺



Noteworthy Articles

"[A Different Approach to High-Risk Youths](#)"
"[Ten Steps for Working with At-Risk Youth](#)"

The Teaching Channel

[The Wingman](#): Engaging Reluctant Students
[Engaging Students](#) in Work That Matters



[Dropout Prevention Reading & Writing Looking Ahead](#)
Planning a Fall Book Study. Please [click here](#) to vote on 1 of 4 book choices.

[Find it Fast!](#)

High Ability

High Ability Coordinator:
[Amy Marschand](#)

Did you know?

Did you know?

Did you know?

In 2010, 9 teachers from the state of Indiana created high ability ELA Units for grades K - 8. These model units are free to use and many of the reading selections are from public domain so there is little cost to the corporation. Summer might be a good time to read through the units to gain new ideas and a feel for what an exemplary lesson plan for high ability students includes. All units are aligned to IAS 2014 with lists of all materials needed to teach the unit. Tips for classroom management and differentiation are also provided.

To access these units, first please complete a short demographic [survey](#).

You will receive a confirmation email from Jotform (check your JUNK/SPAM). The email has a link to a pdf with instructions for Moodle and the enrollment key for the units.

FYI-For All Schools

Interested in getting a **FREE robotics kit** for your classroom? What if we throw in all of the **curriculum and training** you need to get a robotics team started, as well as activities to use in your classroom?

TechPoint Foundation for Youth has launched an exciting State Robotics Initiative giving all Indiana elementary teachers the opportunity to become a Robotics Educator. No prior robot knowledge is necessary, we will train you! We only have 400 kits available - learn more and apply [here](#) today! (www.techpointyouth.org/robotgrant/)

Instruction & Access for All

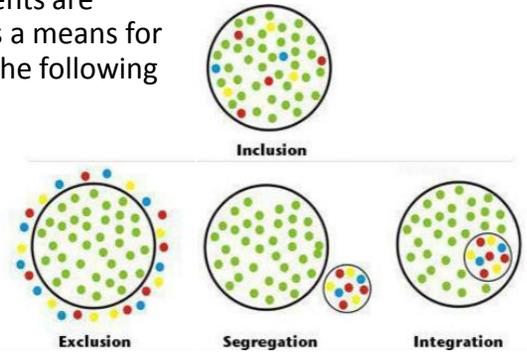
Teachers' Toolbox

Summer 2016

Is Your School/Class Inclusive?

Inclusive schools and classrooms share several common characteristics. Inclusion is a philosophy that supports the belief that all students are capable and are a valuable part of the community. It serves as a means for ensuring equity within the classroom. Inclusive schools have the following characteristics:

- Committed Leadership
- Democratic Classrooms
- Reflective Teachers
- Supportive School and Classroom Culture
- Engaging & Relevant Curriculum
- Responsive Instruction



From: <http://www.paulakluth.com/readings/inclusive-schooling/is-your-school-inclusive/>

RESEARCH TO SUPPORT THE USE OF INCLUSIVE PRACTICES:

- [School Principals and Parents Who Achieve Optimum Results: Lessons Learned from Six North American Schools that have Implemented Inclusive Practices](#)
- [Bibliography of Research Support for K-8th Grade Inclusive Education](#)

Resources:

- ALL Means ALL- A Short Video <https://www.youtube.com/watch?v=v1MaeQqaygg>
- Inclusive Schools Network <http://inclusiveschools.org/together-we-learn-better-inclusive-schools-benefit-all-children/>
- Center for Teaching Excellence <http://www.cte.cornell.edu/teaching-ideas/building-inclusive-classrooms/inclusive-teaching-strategies.html>

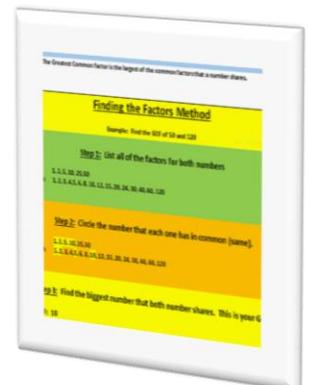
Visual Supports: A Tool for Access & Instruction

Visual supports are a fundamental evidence-based practice that can be implemented in any setting to teach any concept. Most people are visual learners and benefit from having visual supports in the classroom. The type of visual support will vary depending on the student's needs but can include objects, photographs, pictures, icons or written information. Research suggests when individuals are given the opportunity to learn with visual supports or cues, it increases independence, aides in learning more quickly, increases attention and focus, decreases frustration, anxiety and aggression related to task completion, and improves flexibility/ability to adapt to changes.

Visual Supports Resources:

- http://www.speakingofspeech.com/Social_Skills_Pragmatics.html
- <https://www.iidc.indiana.edu/IRCA>
- <http://infiniteach.com/autism-resources>
- <http://afirm.fpg.unc.edu/afirm-modules>
- <http://jillkuzma.wordpress.com>

SHOW them what TO DO!



Learner Variability & Universal Design for Learning

According to the Universal Design for Learning Center, UDL is a set of principles for designing curriculum so that all students have an equal opportunity to learn. It is essentially a framework for setting instructional goals, selecting methods of instruction and assessments that work for every student. It is not a one-size fits all approach, but instead, a flexible way of teaching that is easily customized to meet the needs of every learner.

Why choose UDL to meet individual learner needs? Every learner is unique, they bring various interests, strengths and skills to each learning opportunity. Variability within learners is predictable and based on these predictions teachers can plan ahead to address student's instructional needs. UDL is essentially planning for the varying needs of all learners **in advance**. Planning proactively allows teachers to consider potential barriers and consider ways to allow for these within their instruction. It is similar to planning for the weather in Indiana and dressing in layers, taking an umbrella and having a pair of sunglasses and winter gloves in your bag.

For additional resources on planning for learner variability using UDL, see the link below.

http://udlseries.udlcenter.org/presentations/learner_variability.html?plist=explore#

I. Provide Multiple Means of Representation

- Make text available in a variety of formats: e-Text reader, audio, MS PowerPoint
- Offer a variety of media to access information
- Provide multiple visual and physical examples of information using, for example, manipulatives, Smart Boards, iPads

II. Provide Multiple Means of Action & Expression

- Present learners with choices of tools to demonstrate knowledge. For example, provide a "technology toolkit" on a class wiki with reviews of available tools and resources
- Implement project-based learning to provide opportunities for problem solving and to help guide effective goal-setting
- Other examples: audio recording, dramatic productions, creating charts, graphs and illustrations, and free websites like Blogmeister, Glogster, Toondoo, Animoto, Xtranormal, Voki

III. Provide Multiple Means of Engagement

- Teach students how to use the available formats, tools and technology
- Implement project-based learning opportunities to provide options for individual choice and enhance the relevance and authenticity of the learning
- Give choices of tools, technology, medium, work environments and topic
- Guide students to understand personal learning needs so they can make good choices and become more autonomous
- Provide opportunity for independent choices of participation, for example, standing during a lesson

FREE UDL TECH TOOLKIT



<http://udltechtoolkit.wikispaces.com/Home>

Social Studies

Teachers' Toolbox

Summer 2016



BICENTENNIAL RESOURCE

LOOKING FOR SOME FUN BICENTENNIAL MATERIAL? TRY THESE LINKS:

A long list of Famous Hoosiers: <https://visitindiana.com/about-indiana/famous-hoosiers>

Indiana Facts and Trivia: http://www.50states.com/facts/indiana.htm#VC6_tFeVC5U

FOR TEACHERS: WHAT IS INDIANA KIDS' ELECTION?



The Indiana Department of Education is sponsoring the Indiana Kids Election program

Students throughout Indiana will get a chance to make their choices for president, governor and senator through a mock election this November. The students will vote November 8th, the same day adults go to the polls for the general election. Organizers say the Indiana Kids' Election is based on the premise that voting is occasionally done by inspiration, but more often by habit. The program seeks to emulate the election process. Students participate in voting milestones such as registering to vote on or before October 11. Under Indiana law (IC 20-30-5-4), schools are required to give instruction on the election process two weeks preceding a general election for all students in grades 6-12. The Indiana Department of Education, the State Bar Association, and the Indiana Secretary of State are all sponsoring this Bicentennial Legacy Project. Visit www.inkidselection.com to sign up today!

K – 5 ART CONTEST

ALL K-5 teachers, your students have a unique opportunity to participate in an art contest to teach the importance of good leaders and voting. The contest directly correlates to the Indiana Academic Standards for Social Studies.

Themes & Guidelines: 2016 IKE Elementary Art Contest

Category 1: Grades K-1 | Theme: How do community leaders help us? (K.2.1, 1.1.3 1.2.1)

Category 2: Grades 2-3 | Theme: What makes a good community leader? (2.2.3, 3.2.3)

Category 3: Grades 4-5 | Theme: Why is voting important for our community? (4.2.4, 5.2.6)

Awards: The following awards will be presented in all three categories listed above:

1st Place | \$75 + Award Certificate

2nd Place | \$50 + Award Certificate

3rd Place | \$25 + Award Certificate

Honorable Mention | Award Certificate

Winning art will be on display as part of a special Bicentennial celebration at Indiana's Statehouse in October, 2016

For more information, please visit: <http://inkidselection.com/art-contest/>

Specialist Contact:

Bruce Blomberg, Social Studies Specialist, bblomberg@doe.in.gov, 317-232-9078

World Languages

Teachers' Toolbox

Summer 2016

Where could you & your students go next summer?

There are a number of ways that could provide you or your students an international experience next summer, but most require that you plan ahead. Let's start now!! All organizations are hyperlinked.

For STUDENTS

- [YES Abroad](#)** (Various Countries)
- [NSLI-Y](#)** (Various Countries)
- [Congress-Bundestag](#)** (Germany)
- [IU Honors Program](#)* (Spain, China, France, Germany)
- [American Councils](#)* (Various Countries)
- [AFS Intercultural Programs](#)** (Various Countries)
- [Partners of the Americas](#) (Brazil)
- [CIEE](#)* (Various Countries)
- [YFU](#)* (Various Countries)

* Partial ** Full Scholarships Available



For TEACHERS (without students)

- [GEEQ Travel](#) (Various Countries)
- [IIE](#) (Various Countries)
- [Global Indiana](#) (Various Countries)
- [Chinese Education Connection](#) (China)
- [American Councils](#) (Various Countries)
- [Fulbright Program](#) (Various Countries)

All of the above options for teachers are for traveling without students. There are many other options if you opt to chaperone travel!

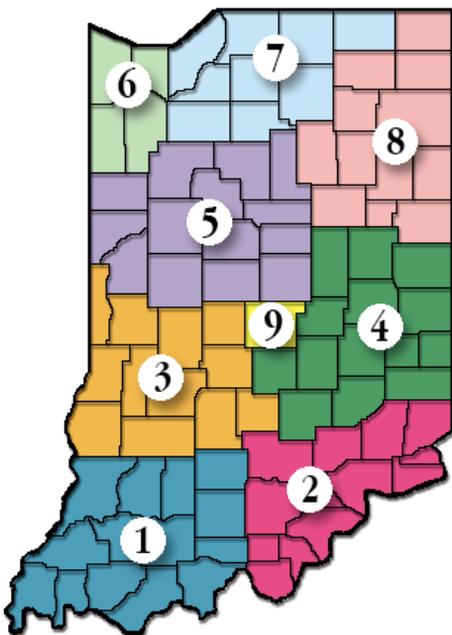
Even more WL PD in collaboration with...

- ... the Global Connections Conference (Indy) – June 20
- ... the eLead Conference (Anderson) – June 22
- ... the C4Ignite Conference (Jeffersonville) – July 25
- ... the Non-Public Educators Conf. (Indy) – Sept. 15



To establish a school-to-school partnership for exchange travel, please fill out this [link!](#)

Professional Development... Find out what's new in the WL field ...World Readiness Standards, the TELL Project, Teaching with Comprehensible Input, Integrated Performance Assessments, and so much more... Plan to have resources to work with your administrators on evaluations and learn about new requirements that will affect what you do in the classroom! Bring a fully-charged device & lots of questions!



Full Day Workshops specific to World Language Instruction for ALL teachers (public, private, charter, parochial, etc...)

* Includes Administrators for ½ day

August 3 – Jasper (#1)*

August 25 – Mishawaka (#7)

August 31 – Decatur (#8)

September 8 – Connersville (#4)

September 9 – Charlestown (#2)*

September 13 – W. Lafayette (#5)*

September 21 – Greencastle (#3)

September 27-28 – Chesterton (#6)*

September 29 – Indianapolis (#9)

See the regional ESCs for more info!!

All workshops are free or only charge for lunch! I look forward to seeing and/or meeting you this fall!

Methods Resources

All 4 Domains -

<https://coerll.utexas.edu/methods/>

Multiple Approaches

<http://moramodules.com/ALMMethods.htm>

Comprehensible Input

<https://www.teachervision.com/learning-disabilities/bilingual-education/10260.html>

Specialist Contact

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Secondary Math

Teachers' Toolbox

Summer 2016

What's On Your Summer Reading List?



Well it has finally arrived. That much needed summer break. All you grades are turned in and your classroom is all tucked away ready for the much needed rest before the hustle and bustle starts again in just a few short weeks. After you have slept in a little, pampered and spoiled yourself a little and taking some time to rest and recuperate from another school year completed, what are your plans for next year? Yes a teacher's job is never done. Are you going to do the heavy lifting of lesson plan and curriculum writing? Are you going to attend the great IDOE Summer Professional Developments happening for free all around the state? (I know a shameless plug. ☺) What if you want to just rest a little while you ease into the more time consuming and far greater effort items I mentioned previously. Here is a suggestion for you. What about a little Summer Reading to spark some ideas for the lesson planning and curriculum writing?

You can sit around the pool, on a picnic table at your campsite, or just in your favorite over stuffed chair in your air-conditioned family room and read. You could even lay in bed, relax a little with some educational reading before you leisurely fall asleep. What a great idea! Sounds nice doesn't it? You get new ideas and learn some ways to improve your teaching and content knowledge without all effort. There are some GREAT books out there for you to read and pick up a few wonderful ideas. My #1 suggestion would be NCTM's *Principles to Action: Ensuring Mathematical Success for All* It is available in both eBook and hardcopy. Check it out at the NCTM Web-Site ([Click here](#)). You might want to check out other books on mathematical best teaching practices, math instruction pedagogy. how to get students involved in the math classroom or great projects that make the math come alive. Below are just a few suggestions to get you started. I hope you Relax, Enjoy Your Summer and Read a Book!

Suggested Reading List: **Best Choice** - *Principles to Action: Ensuring Mathematical Success for All 5 Practices for Orchestrating Productive Mathematics Discussions* By Mary Kay Stein, Margaret Schwan Smith
Good Questions: Great Ways to Differentiate Mathematics Instruction, Second Edition by Marion Small, Amy Lin
More Good Questions: Great Ways to Differentiate Mathematics Instruction by Marion Small
Strength in Numbers, Collaborative Learning in Secondary Mathematics by Llana Seidel Horn
Making Sense of Math: How to Help Every Student Become a Mathematical Thinker and Problem Solver and
Building a Math-Positive Culture: How to Support Great Math Teaching in Your School both by Cathy L. Seeley
Engineering Essentials for STEM Instruction by Pamela Truesdell
Unfolding Mathematics with Unit Origami by Betsy France



Specialist Contact

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Don't forget the New CCR Bridge: Math Ready Course and Free Training this summer – This course is for students who still need support to be successful with the rigors of college and college placement assessments. For more information about *Math Ready*, visit <http://www.sreb.org/math-ready>. Registration Link: <http://goo.gl/forms/KFSx1b1Eli> Have questions? Contact Bill Reed for more information.

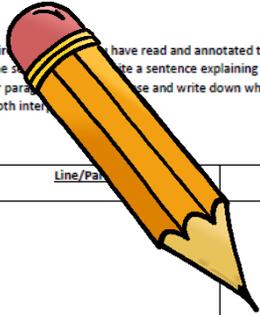
Close Reading Strategy: "I See, You See, We See"

"I See, You See, We See"

Directions: After you have read and annotated the text, choose lines or paragraphs that stand out to you in some way and record them in the first column. In the second column, write a sentence explaining what you see/know/think/infer from the line or paragraph. Then find a partner, ask them to interpret the lines or paragraphs and write down what they see/know/think/infer about it. In the third column, together write a combined inference based on both interpretations.

Text Title: _____

Line/Paragraph	I See	You See	We See



"I See, You See, We See" is a close reading strategy that all started when two different people were reading the Sylvia Plath poem, "Mirror." One person read a line and interpreted it one way and the other person read the same line and interpreted it totally different. Through a paired conversation about the line and their differences in interpretation, a combined inference was formed about the line.

This strategy could be utilized with many different genres of text. It helps students realize and think through how the same text could be viewed many different ways- assisting students in discussing their differences (or maybe the same!) interpretations of a text.

[Click here to download "I See, You See, We See" Resources](#)

What teachers *really* do over the summer, as imagined by students

A [blog post](#) on TeachHub.com highlights one teacher's quest to find out what her students think teachers do over the summer. The teacher shared some of the most creative responses.

Teachers go to the beach, but hide behind other people or bury themselves in the sand whenever they see their students!

Teachers keep track of the days until school starts again because they miss it so much!

Teachers take down student papers, look at them one by one, and cry their eyes out because they are going to miss their class.

Teachers have a secret hide-out where they meet once a week with other teachers to plan our doom!

Thinking Ahead: Classroom Community

As any experienced educator knows, building a community in the classroom is one of the top priorities for the start of the school year. A safe and supportive community is especially important in an English Language Arts classroom because the nature of an English classroom is to interpret and read text differently than maybe your classmate next to you. Building community in the classroom is a year long process and an every day task; however, below are a few strategies or ideas to start thinking about how to create a classroom community.

- "Take What You Need" Strategy: Using a roll of toilet paper, pass it around the class, tell the students to "take what they need." Start by modeling and taking 10 squares (although allow students to take as much or as little). Continuing with modeling, for each square share a piece of information about yourself. Allow students to choose to participate. ([Anne Shaw, Edutopia post](#))
- "Where-We-Come-From Map" Activity: Project a map of Indiana, the United States and the World. Have each student take a sticky note and indicate where they are from and provide one small piece of information about their home.
- "Class Dictionary" Activity: Have each student make a dictionary entry about themselves; as the teacher, choose what information you want to include. Compile all entries into a class dictionary and have available for students to browse. ([Education World](#))

Specialist Contacts

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Secondary Science

Teachers' Toolbox

Summer 2016

Safety or Teambuilding to Launch the Year?

As we begin looking forward to the 2016-2017 school year, should we dive in with safety in the science classroom or take some time to build student relationships, develop a class culture, and set norms. Why not both? Safety is always an important topic and a necessity for engaging authentic science experiences. Taking time to have the students examine case studies, learn the WHY behind the rules, and build some science inquiry skills can also build those relationships. Some ideas to try: Have groups of students make a lab safety video highlighting 1,2, or 3 safety rules, Develop graphics/posters to display around the classroom and lab that will be a gentle reminder all year long, Develop an interactive safety webpage, Students write scripts and act out scenarios in front of the class with the class identifying the safety rule.

Summer thoughts... Is the Chemical store room at your school still meeting the ventilation and temperature requirements for safe storage? A number of schools shut down systems to conserve energy during the off months.



Science and Engineering Process Standards SEPS

The new Science and Engineering Process Standards (SEPS) are now consistent through grades k-12. These 8 standards reflect the skills and practices that scientists and engineers use working on projects and solving problems. As we move forward with implementing the 2016 standards, we should be referencing both the content standards being covered in a lesson and the SEPS. These are also similar to the structure of the math process standards. If you have not looked at the similarities and are looking for new ways to integrate math, talk to your math educator(s) and take a look at them at the beginning of the standards documents at the links to the right.

Specialist Contact

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Secondary Science and STEM
Specialist

Follow us on the
[Learning Connection](#) Science
Educator's Discussion Group



Science Standards:

<http://www.doe.in.gov/standards/science-computer-science>

Math Standards:

<http://www.doe.in.gov/standards/mathematics>

Computer Science K-12

Teachers' Toolbox

Summer 2016

Several opportunities for professional development are being offered all over the State of Indiana this summer and into fall. Join the Learning Connection community mentioned below to get updates all summer long for new locations being added weekly!!



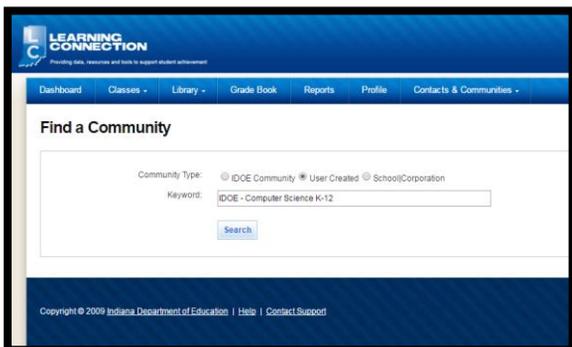
Are you a member of the Computer Science Teachers Association on the national and state levels? Both offer FREE memberships and tons of resources. Use this link to join the national association (<https://csta.acm.org/Membership/sub/IndividualMembership.html>) and use <http://incsta.org/contact-us/> for more information on free membership in Indiana.



New Community for All Grade CS Teachers

A new community has been created in the Learning Connection for K-12 computer science teachers to share information, lesson plans, and resources. Use the “forum” to ask for help or offer solutions to posts.

Announcements about summer professional development opportunities are already posted. Be sure to click “**user created**” and type in IDOE-Computer Science K-12 in the keyword box. The Learning Connection sign-in portal link is below! Join today!! <https://learningconnection.doe.in.gov/Login.aspx?ret=%2fdefault.aspx>



State Program Leader Contact

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No Technology Needed



Try Robot Turtles™ to teach 3-8 year olds the fundamentals of programming through this board game.

Business, Marketing, Information Technology, & Entrepreneurship

Teachers' Toolbox

Summer 2016

TECH CAMP Hosted by IBEA – CANCELLED

Entrepreneurial Education Conference

June 21, 2016: Ball State University, Fishers

Register at <https://eventpayment.bsu.edu/profile/form/index.cfm?PKformID=0x48869b09f>

Smart Indiana Economic Education and Financial Literacy Conference

June 27-28, 2016: Marriot Downtown, Indianapolis

Registration link: <http://www.econed-in.org/smartindiana-smr2016-agenda.asp>

Certiport Workshops

Thursday, July 21: Evansville North High School, Evansville

Friday, July 22: Prosser Career Center, New Albany

Monday, July 25: Tri-County High School, Wolcott

Tuesday, July 26: Anthis Career Center, Fort Wayne

Wednesday, July 27: The Academy of Science and Entrepreneurship, Bloomington

Here is the link to the registration form: <https://www.surveymonkey.com/r/3SHDGVH>

Space is limited at some locations so register early! Registration deadline is Friday, July 15.



Indiana-ACTE Annual Conference

September 22 – New & Newer Teachers Workshop

September 23-24 Professional Development Conference

Registration: <http://www.cvent.com/events/2016-statewide-professional-development-cte-conference/event-summary-5d6ae2bc7c6d45478ea00d912acdd6f0.aspx?dvce=1>

Indiana Business Education Association November Conference

November 18-19, 2016

Registration will open late summer.

PIN IT on

Did you know that the Indiana eLearning folks have created 90 boards on Pinterest for teachers to utilize? They have boards from augmented reality, bullying, copyrights, digital literacy, flipped learning, iPads, leadership, tech integration, and much more! You might say they have A to Z covered better than Amazon! Be sure to look for the *Digital Content: Business* board and start following today!!



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Job Openings

There are currently 18 business education and 6 technology/CS positions listed in the IDOE job bank. If you know of someone that just graduated or got rified, please share this link with them to get more details: <https://doeonline.doe.in.gov/jobbank/search.aspx>

Trade & Industry

Teachers' Toolbox

Summer 2016

Standards Review

The Indiana Department of Education needs your help to review standards for new and current courses. We are seeking volunteers to help review standards for the new courses Industrial Technical Maintenance I & II, Industrial Automation and Robotics I & II, and Welding Technology I & II. The documents will be reviewed electronically using Survey Monkey. We are specifically looking for instructors who currently teach the Welding Technology courses and instructors with a professional or teaching background in Advanced Manufacturing or other related courses to review the Industrial Maintenance and Robotics offerings. Each course should take between 20-30 minutes to review. Respondents simply denote which standards should remain in place or be removed. There will be fields to write specific standards or revise current ones. If you are interested in reviewing standard in any area please contact me at dmoore@doe.in.gov. Once contacted, I will send you a link to the respective survey which you can explore and complete when you are ready. The Industrial Maintenance and Robotics standards are posted now and ready for review. The Welding Technology Standards will be posted by Mid-July.



The Department is looking for teachers to review standards this Summer



Advanced Manufacturing Instructors are encouraged to review standards

Opportunities

- Be sure to mark your calendar for the Indiana ACTE Professional Development Conference. That happens September 22-24 at the Marriot Conference Center East in Indianapolis. Topics include Using Technology in the classroom, Academic Integration Strategies, and much more. For more information and to sign up visit www.indianaacte.org.
- Chase Bank, The Council of Chief State School Officers, and Advance CTE are teaming up to enhance Career and Technical Education in Indiana. They awarded Indiana \$100,000 to improve the talent pipeline for industry as well as career awareness and readiness in students. The state is in the assessment phase of a multipart process and they want to hear your ideas. Contact your CTE Director to find out how you can get involved.

Resources

The National Research Center for Career and Technical Education is committed to improving outcomes for all CTE students. They are the organization behind Math-in-CTE and Literacy-in-CTE. They offer a number of strategies, research papers, lesson templates, and lesson plans focused on integrating academic core curriculum with CTE courses in effective and engaging ways. You can find all of these resources at their website www.nrccte.org



Making the Most Use of Your Lab Space

Many engineering and technology use the summer to unwind, plan lessons, and clean their labs. Have you thought about how you could rearrange your lab to make the best use of your space? You may not always be able to move everything, as many pieces of equipment cannot or should not be moved, but sometimes moving your desk or other work stations allows for a more efficient lab environment. Before you get started, make sure your lab space is clean. Think about the things you use on a daily basis. Are there extra things sitting on your desk or other work areas that could be thrown away or recycled? After the lab is clean you can start to rearrange your space. Think about how your students move through the lab. Then walk through the lab yourself. Where are areas where you are taking unnecessary extra steps that can be made more efficient? Moving a few things around, if only posters, always made me feel fresh and renewed for a new year.



Middle school teachers: Looking for a new project for your students to complete next year? Future City is a flexible, project based learning experience that you can adapt for your classroom or after-school club. Students spend approximately four months creating cities that exists at least 100 years in the future, addressing civics and sustainability issues alike. The programs various components – designing with computers, building and scaling models, researching, writing, and public speaking – make it accessible to a variety of students and relevant for educators. This is a cross-curricular STEM project! Students compete in the Indiana Regional Tournament at IPFW. Learn more at <http://www.etc.ipfw.edu/fcc/> Contact Carol Dostal at dostalc@ipfw.edu for more information and to learn how to register.

SPOTLIGHT ON TRANSPORTATION

This June, the Julia M. Carson Transit Center is opening in Indianapolis. This means changes in bus routes around the city. There are also [major changes](#) planned for future transit around Indianapolis. If you teach in the Indianapolis area, how can you include this in your lessons for Intro to Transportation? What are the transportation issues that your local area faces and how can your students investigate them? Making issues local is a way to engage students with their communities while teaching content.

Content News

The **Advanced Manufacturing I and II Standards** are currently under public review. Please help us review these by completing the following surveys:

[Advanced Manufacturing I](#)

[Advanced Manufacturing II](#)

Each survey takes about 15 minutes.

The [Middle School Engineering and Technology Standards](#) have been approved.

FREE Robotics Kit + Training/Support for Elementary Schools from Techpoint Foundation

A robotics start-up grant will be awarded to 400 interested and qualified **elementary** schools which will cover up to the cost of a VEX IQ starter robotics kit, VEX IQ competition parts, VEX IQ team registration, professional development, VEX curriculum, and Project Lead The Way classroom projects and parts. Feel free to forward the link to an interested STEM elementary teacher! Click [here](#) for more information and to apply.



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Family and Consumer Sciences and Work Based Learning

Teachers' Toolbox

Summer 2016

Thinking about FCCLA?



Why you should start a chapter:

- enrich classroom teaching and motivate students to learn
- fulfill student performance standards and competencies
- reduce preparation time as students take responsibility for learning
- model how to help others
- publicize the Family and Consumer Sciences program to the community
- attract more students
- develop leaders who can assist in the classroom

Where to start? Click [here](#) to find out about membership and its benefits

Non-Traditional Pathways for males in Family and Consumer Sciences

What does the term non-traditional mean in CTE?

Occupation or field of work dominated by one gender.

Non-traditional Pathways for males in Family and Consumer Sciences

Early Childhood Education and Education Professions

Three Strategies for changing school culture surrounding non-traditional

1. Start Early- share non-traditional role models with students at an early age
2. School Staff- educate others staff members about the benefits of non-traditional employees
3. Reduce Gender Bias- intentional or unintentional- example- think about what is on your door or in your classroom as students enter as a first step

WBL Teachers in Industry Project

Find out more about this project at Indiana ACTE during a session highlighting the experience

- 29 Teacher Participants
- Over 35 Business and Industry partners
- 11 different content areas in CTE

Professional Development

2016 Smart Indiana Economic Education and Financial Literacy Conference

June 27-June 28
JW Marriott Indianapolis, IN
[Registration Information](#)

Moving to a new school or position?



Let us know!
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Agriculture Education

Teachers' Toolbox

Summer 2016

Who Are You? (excerpt from *A Day in the Life of an Ag Teacher*)

We all know that ag teachers wear many hats in their classroom, school, and community. We also know that ag teachers are superheroes, because what other types of teachers juggle so many different classes, topics, SAE projects, community commitments, and everything that comes along with an FFA chapter? Ag teachers spend a tremendous amount of time with their students, and in doing so, have the potential to impact them and influence them in many ways. This leads to the students seeing many different sides of ag educators and all of the different roles they play to do their job. The question is, as an ag teacher, who are you as you assume those roles?

Be a Leader, not a Boss

Empower instead of enable

Be a cheerleader not a fair weather fan

Pick: Susie Sunshine or a Debbie Downer. Which will your students react to?

Are you a rockstar or a one hit wonder?

So, who are you? How do you see yourself, and more importantly, how do you students see you? We are all already super heroes just for our choice in profession, so let's strive to become positive empowering cheerleader ag teacher rockstars!

Did You Know?

My Journey (<https://www.ffa.org/my-journey/instructor>) on FFA.org (<https://www.ffa.org/home>) is designed to be able to be personalized for both teacher and student (<https://www.ffa.org/my-journey/student-Explore>) use. Teachers can find lesson plans, activity ideas and templates while students can try out videos, quizzes and articles, all revolving around Premier Leadership, Personal Growth and Career Success for the classroom, FFA chapter and SAE. Content is updated monthly, so you and your students can find new material regularly.



For Your Exploration Classes

Working together, we can further build agricultural awareness and understanding through education. My American Farm is an interactive website that provides classroom resources and games to teach students where food comes from and what agriculture does in the United States. My American Farm also provides grants to schools that further their efforts in sharing the importance of agriculture using My American Farm resources. Learn more at myamericanfarm.com.



Don't Forget:

Help the IDOE learn more:

<https://www.surveymonkey.com/r/RFB353Q>

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Jump IN for Healthy Kids

“Jump IN for Healthy Kids” is a community-wide effort to give children and families real opportunities to make healthy choices. The program is focusing on central Indiana primarily, but check out their website for several great resources for any health and physical education classroom. Consider taking the Jump IN pledge and challenge your students, families and staff in the 2016-2017 school year to be healthy and active!

<http://bit.ly/1THyflb>

Looking for Some Grant Opportunities?

Check out the Indiana Youth Institute's *Grants and Fundraising* page for several opportunities

<http://bit.ly/1U5U5oJ>

Be sure and join the **Learning Connection** and the “**IDOE Health Educators**” and/or the “**IDOE Physical Educators**” Community to receive updates from the IDOE and communicate with educators from across the state.



Resources:

- [Federal Resources for Educational Excellence](#): Free resources from federal agencies
- [PBS Teachers](#): Find good ideas, references and other information on teaching
- [I Love That Teaching Idea!](#) : A wide variety of teaching ideas and tips
- ElectriKids: www.electrikids.com/index.html
- SHAPE America: www.shapeamerica.org/jump/presources
- Kids Health in the Classroom: <https://classroom.kidshealth.org>

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Health Science



NCHSE Assessment Resources

A one-stop shop for National Consortium for Health Science Education (NCHSE) resources and information on the National Health Science Assessment can now be found in one place on the NCHSE website. Material including helpful resources to assist with exam preparation, a 25 question sample test, instructions for exam registration, and helpful FAQs can all be found here;

<http://bit.ly/24wmln7> . For assistance with the National Health Science Assessment, contact Precision Exams at 801-653-9356 or support@precisionexams.com

What Does “Non-Traditional” Mean in CTE?

Definition: Occupation or field of work dominated by one gender. In healthcare, most often it’s the field of nursing that is impacted.

Strategies to Address the Gap in your program can include; **1)** Include pictures or posters of men in nursing roles in your classroom; **2)** Use male alumni as guest speakers and for recruitment; **3)** Personal encouragement of students and reduce gender bias (unintentional and intentional).

Resources:

- www.anatomyarcade.com - Makes basic human anatomy come alive through FREE flash games, interactives and videos

Professional Development:

The Health Science Curriculum Conference
Louisville Marriott Downtown, Louisville, KY
October 12-14, 2016 • October 11, 2016 Pre-Conference

www.healthscienceconsortium.org

A valuable opportunity to learn innovative teaching strategies and best practices. Great opportunity to enhance your health science programming and instruction.

Be sure and join the **Learning Connection** and the **“IDOE Health Science Educators” Community** to receive updates from the IDOE and communicate with educators from across the state.



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Bicentennial-Special Edition!

Teachers' Toolbox

Summer 2016

Hoosier Heritage Educators-a Bicentennial Legacy Project!



To honor Indiana's past, present, and future teachers, the IDOE is proud to support the [Hoosier Heritage Educators](#) program, sponsored by the Indiana Association of Public School Superintendents (IAPSS).

Who inspired YOU to become a teacher? Who have YOU inspired? We'd LOVE to hear and share your stories of encouragement, family tradition, and dedication to the very honorable profession of teaching.

To participate, simply click [HERE and share your amazing stories!](#) All participants who register are invited to attend a recognition ceremony during [Hoosier Homecoming](#) Day, taking place on the Statehouse grounds on Saturday, October 15, 2016 from 12:00-5:00 PM.

For more information about this program, please contact Jenny Berry, Director, College and Career Readiness at jberry@doe.in.gov

More Bicentennial Resources!

Learn more about....

[Indiana's Torch Relay!](#)

The Torch Relay kicks off in Corydon, the State's first capital, on September 9th, 2016, as it begins a 2,300 mile journey through ALL 92 Indiana counties, and will culminate on Saturday, October 15th at the Statehouse grounds during [Hoosier Homecoming](#) day!

When will the Torch relay run through your county? Click [HERE](#) to find out!



A 21st Century TORCH!

It's not just any old torch, it's a high-tech Hoosier-made flame, by a team led by Purdue University (of course!) Engineering students and staff.

So get your STEM on, and find out more fun facts about this awesome technology!

[Indiana Bicentennial Torch Facts](#)

Specialist Contact

For more Bicentennial information, please contact [Bruce Blomberg](#)