



Glenda Ritz, NBCT
Indiana Superintendent of Public Instruction

Teachers' Toolbox

A content focused resource for classroom instruction

November 2016

STUDENT MOTIVATION

Struggling with student motivation as the school year goes by and holiday breaks are upon you?

As you plan your lessons, build in the following motivational principles to help combat loss of student motivation.



A Note from...

Katie Brennan,

Director of Outreach

Welcome to the November edition of Teachers' Toolbox! As many of you are coming back from your much needed fall break and beginning to prepare for the holiday season with your students, do not forget to take a few moments to reflect on the importance of your work. Always remember that you are making a difference with your students each and every day. Even in this busy season, when distractions seem to be around every corner, every minute with your students is precious time to foster their growth.

The Outreach Division of School Improvement is here to provide support to Indiana schools to help ensure high quality opportunities are provided to all students. On behalf of myself and the entire Outreach team we want to extend our gratitude for your dedication to the students of Indiana.

We hope you find this edition of the Teachers' Toolbox full of information and resources that help you in your work.

"The best part of teaching is that it matters. The hardest part of teaching is that every moment matters every day."

- Todd Whitaker

NAA16 VIRTUAL CONVENTION
NOVEMBER 6-20, 2016
SPONSORED BY  

Indiana Afterschool Network Sponsorship Makes Virtual Convention FREE to Afterschool Professionals in INDIANA!

National Afterschool Association's VIRTUAL CONVENTION 2016- November 6 - 20th, 2016
Virtual Convention packages the top-rated workshops from the 2016 NAA Annual Convention and delivers them in a convenient online format. You'll gain valuable insight from these knowledgeable, motivational, and fun speakers - ideas that you can begin implementing immediately!

Interested in the Workshops you'll get to experience?

[Click HERE.](#)

"I see school leaders and educators working every day to improve instruction and outcomes for Hoosier students. I am dedicated to supporting the great work that is happening in our schools and providing additional resources to support our students."

Glenda Ritz,
Superintendent of Public Instruction



Next Generation Teacher Scholarship

The State of Indiana will provide **200 scholarships each year** to high-achieving high school and college students interested in pursuing a career in education. The scholarship pays \$7,500 per year for up to four years to students who commit to teaching in Indiana after graduation.

Deadline:

December 31, 2016

Click [Here](#) for more information

In this Issue:

- 2 [High Ability and Alternative Education](#)
- 3 [Instruction and Access for All](#)
- 4 [World Languages](#)
- 5 [Social Studies](#)
- 6 [K-12 Computer Science](#)
- 7 [Health and P.E.](#)
- 8 [Elementary STEM](#)
- 9 [Elementary Literacy](#)
- 10 [Secondary Math](#)
- 11 [Secondary ELA](#)
- 12 [Secondary Science](#)
- 13 [Engineering and Technology](#)
- 14 [Business/Marketing](#)
- 15 [Health Science](#)
- 16 [Trade and Industry](#)
- 17 [FACS and WBL](#)
- 18 [Agriculture Education](#)
- 19 [Fine Arts](#)

Email us at teacherstoolbox@doe.in.gov

*To subscribe send an email with your first/last name, email, school corporation, and zip code.

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

High Ability

Teachers' Toolbox

High Ability Coordinator: [Amy Marschand](#)

November 2016

Check It Out!

New High Ability Resources in Moodle

Please take a look at the newly updated High Ability Education area in Moodle. New videos and resources are now available in the High Ability Toolkit. A new section has been added - Teacher to Teacher Math Resources K - 5. The High Ability ELA Units are now open to all. Only a Moodle account is needed to access all of these resources.

Go to : <http://moodler.doe.in.gov/> If you need to open a Moodle account, click on "create a new account" on the right hand side and follow the instructions.

Alternative Education

Alt Ed Specialist: [Julia Johns](#)

Alternative Education Forum 10/07/16



Regarding Fall Book Study

- *Week 8 of our Fall Book Study will begin Monday 10/31/16.
- *Please make sure all responses are finished by Sunday 11/6/16.
- *PGP Points will be emailed out by Friday 11/11/16

Regarding Spring Book Study

- *Beginning Monday January 9, 2017 we will begin reading/discussing [Fall Down 7 Times, Get Up 8: Teaching Kids to Succeed](#) by Debbie Thompson Silver
- *Study will last 11 weeks.
- *20 PGP points awarded upon completion of study.
- *Book may be purchased via Amazon, Barnes & Nobles, local bookstore or via your public library.
- *Sign-up form for Spring Book Study will appear in the December Teachers' Toolbox.
- *Plan to join us ☺

*I just want to say thank you very much for your participation in our **Alt Ed Forum at Center Grove on Oct 7, 2016**. I look forward to getting together again, hopefully in the summer, to continue our discussion of best practices.

*If you have not completed the **Forum Survey**, please log on [here](#) - and provide us with additional feedback for future consideration.

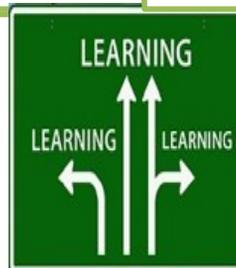
*Documents shared at the forum are located on the **Alt Ed Google Community of Practice** - they can be accessed [here](#)

Reminder: Teacher/Student Survey

Student Survey:
[Click Here](#)
Teacher Survey:
[Click Here](#)

Pinterest

[Dropout Prevention](#)
[Reading & Writing](#)
[Indiana History Rocks!](#)
[Indiana Authors](#)
[Mindsets in the Classroom](#)
[Secondary English](#)



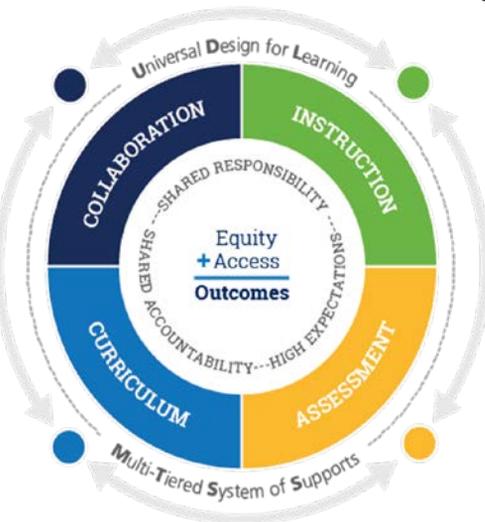
Noteworthy Articles

[Boosting Achievement with Messages that Motivate](#)
[Growth Mindset for Better Learning](#)
[Creating a Growth Mindset in Your Students](#)

Instruction & Access for All

Universal Design for Learning: Defined

Universal Design for Learning is a framework, philosophy and concept for designing instruction so that anyone can use it, "universally". Through this framework of design, instruction can be provided flexibly so that all students can access the materials. UDL is not a discreet or explicit set of steps or a checklist for developing lesson plans. One of the most critical components of the UDL framework is planning. Planning for multiple and flexible means of engagement, presentation and response. To learn more about the UDL Framework, check out the most recent [Short Share](#) hosted by the Office of Special Education, featuring the Director of the PATINS Project, Daniel McNulty, one of the Indiana Resource Networks available for staff, students and families for resources and support.



Resources:

- [PATINS](#)
- UDL At a Glance: [Video](#) from CAST
- [UDL Theory & Practice](#)
- [UDL Center](#)
- Sign up for a [free UDL Newsletter](#) with monthly tips

EDUCATIONAL PERSPECTIVES SURVEY

In order to understand the perspectives toward educating students with disabilities, a stakeholder group led by the Indiana Department of Education, Office of Special Education (OSE) has developed this voluntary survey. Please assist the OSE in gathering a wide range of perspectives by completing this survey and forwarding to other educators, parents and community agencies who are connected to students with disabilities. The survey will be available for completion until close of business November 30, 2016. <https://form.jotform.com/62504475953966>

Universal Design for Learning

Modifications vs. Accommodations

A **Modification** is when general education curriculum or learning expectation is altered

Accommodations do not modify the content, but allows for some changes to presentation, timing, response, setting, and equipment.



Many educators struggle with understanding the difference between what is considered an accommodation or modification and when and how to provide them appropriately. Planning for instructional design using the UDL Framework can allow for teachers to provide necessary accommodations/ modifications while also considering universally appropriate accommodations. Planning this way puts students at the center of instruction instead of the curriculum.



Illustration by Chris Vallo, © 2013 CAST, Inc.

TRY IT OUT!

Plan using the [IDOE Standards Aligned Lesson Planning Template](#). Steps 9 and 10 of this template address access for all learners.

World Languages

Teachers' Toolbox

November 2016

Interpretive Mode: Listening & Viewing!

As we continue on our journey of the interpretive mode of communication, we go from READING to LISTENING and VIEWING! I hope this edition of the Teachers' Toolbox provides you with a number of resources and tools to ensure you have authentic audio & video resources to round off the comprehensible input that they get from you!

The Interpretive Mode of Communication is vital...

- ...to ensuring that students have gotten comprehensible input from which they can build throughout the school.
- ...to let students access authentic pronunciation from the target culture.
- ...to helping students from level 1 prepare for upper level language.
- ...to providing models of gestures, intonation and real WL interactions.
- ...to making sure that you and the students are challenged every day!

Some from the field:

Audiolingua is an awesome tool to give teachers of 12 different languages some authentic listening activities for their students. Click [here](#) to check this one out! **Spanish** teachers can use this series of oral recordings leveled and themed to help them choose the right one. Click [here](#)!

Our neighbors to the east share their best... Interpretive sites from Ohio!

1. BBC Languages: Video series: [Ma France](#), [Mi Vida Loca](#), [La Mappa Misteriosa](#).
2. Language Learning: Video series and resources from [4learning](#).
3. Destinos: [Free video series](#) for secondary Spanish students with 52 half-hour episodes.
4. Jojo Sucht Das Glück: [German video series](#). Thirty-three 3 minute episodes
5. Scholastic News Online: [Current events](#) with recorded texts for French, Spanish & German.
6. 7 Jours: [French newsclips](#) for all levels, with worksheets and teacher guides.
7. DeutscheWelle: [Current events](#) in 30 languages.
8. Ver Taal: Spanish, French and Dutch [videos](#) and language activities.
9. French Podcasts: [Podcasts](#) for learners in French.
10. Lyrics Training: [Music videos](#) in 7+ languages, karaoke-style w/ lyrics.
11. iTunes Top 100: [Top 100 downloaded songs](#) by country. Updated hourly.

There's more...

Check our Zachary Jones and [Zambombazo](#) for video and music clips in Spanish. [Notes in Spanish](#) is a great series of podcasts with Castilian Spanish at various levels  [Notes in Spanish](#)



Zambombazo
Una explosión de lengua y cultura

Handy YouTube Channels



Visit [Don Pancho's kitchen](#) to see multiple videos from a local Hoosier teacher hailing from the Northwest corner of Indiana. Some videos have voice overlay and others don't, but these can be utilized for students to listen to or view and share food vocabulary, retell Don Pancho's actions or predict Don Pancho's next steps. Also, Visit [Bright Brenda's YouTube page](#) is jam-packed with handy videos for Spanish teachers directly related to a variety of common classroom themes. Extra TV shares videos in [French](#), [Spanish](#), [German](#) & [ESL](#) when an American visits his pen pal from Europe.

From the Field - Thank you for sharing!

Britney L. from Linton-Stockton HS shares two tools: [EdPuzzle](#) lets you upload videos (or send from YouTube) & embed comprehension questions. For a bank of lesson ideas & resources, visit [Sharemylesson.com](#). Send me your ideas too!!



Don't forget... to connect with us at

[www.learningconnection.doe.in.gov](#) for IDOE's World Language & Cultures Community

Save these dates...

IN-NELL Conference 2017
Saturday, Feb. 25, 2017 in Indianapolis with a theme of "Student Engagement for a Lifetime". Early Bird registration by Feb. 13.

[www.in-nell.net](#)

CSCTFL Conference 2017
March 9-11, 2017 in Chicago, IL with a theme of "Performance + Proficiency = Possibilities"

[www.csctfl.org](#)

IFLTA Conference 2017
Nov. 2-4, 2017 in Indy!

[www.iflta.org](#)

Coming Soon:

We'll continue our journey through the modes of communication this year. And the next mode is ... **Interpersonal Writing & Speaking**.

Page 4

Proficiency Tools

Let our national organization help guide you with samples in your language. Click [here](#) to access the webpage. Then, find your language on the left. Click on it and choose your proficiency level to hear a sample. To see the general Can-Do statements that your national leaders crafted for Interpretive Listening, click [here](#). For the ACTFL performance descriptors for the Interpretive mode of communication click [here](#).



Specialist Contact

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Social Studies

Teachers' Toolbox

November 2016



WHY DO WE HAVE THE ELECTORAL COLLEGE?

The founding fathers established the Electoral College in the [Constitution](#) as a compromise between election of the President by a vote in Congress and election of the President by a popular vote of qualified citizens. However, the term “electoral college” does not appear in the Constitution. [Article II](#) of the Constitution and the [12th Amendment](#) refer to “electors,” but not to the “electoral college.”

Since the Electoral College process is part of the original design of the U.S. Constitution it would be necessary to pass a Constitutional amendment to change this system.

Note that the [12th Amendment](#), the expansion of voting rights, and the use of the popular vote in the States as the vehicle for selecting electors has substantially changed the process.

Many different proposals to alter the Presidential election process have been offered over the years, such as direct nation-wide election by the People, but none have been passed by Congress and sent to the States for ratification as a Constitutional amendment. Under the most common method for amending the Constitution, an amendment must be proposed by a two-thirds majority in both houses of Congress and ratified by three-fourths of the States.

For a more information and a short video on the Electoral College from the National Archives, visit the following link: <https://www.archives.gov/federal-register/electoral-college/about.html>

AN ANTHEM, A FLAG, AND INDIVIDUAL LIBERTIES

This eLesson asks students to consider what constitutes protected speech and how far patriotic symbols and actions can be legally protected from acts of protest. Through this lesson, students will better understand the rights guaranteed by the First Amendment to the United States Constitution. They will use this understanding to analyze a variety of current events and assess whether they constitute protected speech. Students will then apply their understanding and analysis through respectful debate to further clarify their position on this controversial topic.

[View the eLesson here.](#)



THE GREAT IMMIGRATION DEBATE



This eLesson will assist students in understanding the challenges faced by public officials when forming immigration policy. Through research, students will better understand some of these proposed policy solutions and some of the concerns surrounding them. Students will analyze the effectiveness of these proposals and apply their analysis through participation in class discussion and creation of their own plan for an effective immigration policy.

[View the eLesson here.](#)

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

Computer Science Kindergarten-12

VISION ▾ FRAMEWORK STATEMENTS ▾ IMPLEMENTATION GUIDANCE ▾ RESOURCES ▾

K-12 Computer Science Framework

K12 COMPUTER SCIENCE FRAMEWORK

Computer science has **driven innovation in every field** and is powering approaches to many of our world's toughest challenges.

[See the concepts and practices](#) [Download the framework](#)

The Association for Computing Machinery, Code.org, Computer Science Teachers Association, Cyber Innovation Center, and National Math and Science Initiative have collaborated with states, districts, and the computer science education community to develop conceptual guidelines for computer science education.

The *K-12 Computer Science Framework* comes at a time when our nation's education systems are adapting to a 21st century vision of students who are not just computer users but also computationally literate creators who are proficient in the concepts

Many of Indiana's best educators helped write or gave input on the recently released computer science framework by <https://k12cs.org/>. This framework does not replace Indiana's Computer Science standards, but rather should be used as a supplement or resource.

IDOE Computer Science Contacts



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Dena Irwin
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Professional Development Opportunities

Nextech Indiana K-12 Computer Science Teacher Meet-Up

Speak Easy located above the Hard Rock Café
(Maryland & Meridian)

Thursday, November 17, 2016 - 5:00 PM – 7:00 PM EST

[Registration Link](#)

Indiana Business Education Association Conference

Wyndham Hotel, Indianapolis

November 18-19, 2016

[Conference Information](#)

Computer Science Education Week

December 5-11, 2016

CSTA Annual Conference

Baltimore, Maryland

Renaissance Baltimore Harborplace Hotel

July 9-11, 2017

[Conference Information](#)

Health & Physical Education

Teachers' Toolbox

November 2016

Indiana Active Schools

After completing the Fuel Up to Play 60 School Wellness Investigation (SWI), Cassie Brooks, from Brownsburg West Middle School, was inspired to start a Girls' Club at her school. The SWI helped Cassie and some of her students to see that there were no opportunities for physical activity outside of school, except for athletics. The Girls' Club has helped middle school girls come together in a friendly, non-intimidating environment, where they practice healthy habits through healthy snack prep, fun exercise opportunities such as Zumba or Yoga, and discussions about ways to promote positive body image and support female counterparts. Words of advice on what has made their program so successful, include: 1) Take note of what others are doing and figure out how that might work in your school; 2) Ask the kids what they want. You will be much more successful if they feel it is their idea!; and 3) Build a support network by finding "cheerleaders" of your program and ideas. If you have any questions, or want to know more on how to plan an "active school" initiative of your own, email Cassie Brooks at cbrooks@brownsburg.k12.in.us or follow her on her Twitter and Instagram accounts using @Brooke01CL

If you, or someone you know, promotes physical activity in your school...we want to hear from you!
Email Kelsey Barrick (kbarrick@isdh.in.gov) for more details on how to share your story.

The IUPUI School of Physical Education and Tourism Management Presents

Dr. John Ratey

Friday, November 4 • 3:30 pm

Indiana Convention Center • FREE



Consistently named one of the best doctors in America by his peers, John J. Ratey, MD, is an associate clinical professor of psychiatry at Harvard Medical School, a tremendous researcher, speaker, and best-selling author. With the publication of *Spark: The Revolutionary New Science of Exercise and the Brain*, Dr. Ratey established himself as one of the world's foremost authorities on the brain-fitness connection. Come for Dr. Ratey's engaging presentation, networking, food, and fun! Visit www.petm.iupui.edu/150 for more information.

School Health Assessment Tools

The Society of Public Health Educators (SOHPE) provides a resource listing of tools to help school districts, schools and others conduct complete and consistent analysis of school health programs, health education curricula, and physical education curricula. Some of those tools include:

- [HECAT](#) (Health Education Curriculum Analysis Tool)
- [PECAT](#) (Physical Education Curriculum Analysis Tool)
- [SHI](#) (School Health Index)
- [WellSAT](#) (Wellness School Assessment Tool)
- [Alliance for a Healthier Generation: Healthy Schools Program Framework](#)

Visit <http://bit.ly/2ekBICi> for more information

Resources:

SHAPE America's New Teacher's Toolbox

[SHAPE America's revamped Teacher's Toolbox](#)

includes the articles, activity ideas and curriculum resources you need to stay informed and succeed in your classroom? The Teacher's Toolbox is divided up by subject areas so you can quickly find what you're looking for:

- Hot Topics – Read about the latest trends in PE, Health Ed and physical activity
- Elementary & Secondary PE – These sections include activity calendars and helpful tools to improve your PE program
- Health Education – Find skills-based learning activity ideas and more!

Additional section on Adapted PE, Early Childhood, Coaching, PETE/HETE and research are also included.

Specialist Contact:

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Elementary STEM

Teachers' Toolbox

Focused on Science, Technology, Engineering, and Mathematics

November 2016

Mathematics Instructional Best Practice

Facilitate Meaningful Mathematical Discourse

Effective teaching of mathematics facilitates discourse among students to build shared understanding of mathematical ideas by analyzing and comparing student approaches and arguments.

Principles to Action, pg 29

Effective mathematics teaching engages students in discourse to advance the mathematical learning of the whole class. Mathematical discourse includes the purposeful exchange of ideas through classroom discussion, as well as through other forms of verbal, visual, and written communication. The discourse in the mathematics classroom gives students opportunities to share ideas and clarify understandings, construct convincing arguments regarding why and how things work, develop a language for expressing mathematical ideas, and learn to see things from other perspectives (NCTM 1991, 2000).

Resources:

[100 Questions that Promote Mathematical Discourse](#)
[How to Engage Students in Mathematical Discourse](#)

[Promoting Mathematical Discourse in the Classroom](#)
[Unlocking Engagement through Mathematical Discourse](#)

Bridging Computer Science and Mathematics with Multiplication

Looking for creative and fun ways to help students bridge different concepts together is important. When students start thinking about the digital world being in binary, it can be connected to how multiplication began more than 3,600 years ago. If you can double, halve, and add, then you can multiply. The Egyptians were able to work through multiplication in a binary approach using a standard algorithmic approach known today as the Egyptian Method / Russian Peasant Method. Letting students experience this way of multiplying can help them make connections to a binary way of thinking.

[Read about the Method](#)

[Watch the Method](#)

Computer Science Standard:

3-5.DI.3 Demonstrate how a string of bits can be used to represent alphanumeric information and how 1's and 0's represent information.

Sample Mathematics Standard:

5.C.1 Multiply multi-digit whole numbers fluently using a standard algorithmic approach.

Modeling and Using Tools

Mathematics Process Standard 5:

Use appropriate tools strategically.

[National Library of Virtual Manipulatives](#)

A library of interactive, web-based virtual manipulatives or concept tutorials, mostly in the form of Java applets, for mathematics instruction.



Connect with me...

Nick Flowers

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Learning Connection Community:

Elementary Math, Science, and STEM

Twitter: @FlowersSTEM

Use #INelemSTEM to showcase the great science, technology, engineering, and/or math activities going on at the elementary setting.

Elementary Literacy

Teachers' Toolbox

Elementary ELA Specialist
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November 2016



Support Literacy in the Fine Arts

We all know Literacy connects to all disciplines and enables lifelong learning. Getting kids to read is one thing, but fostering an excitement and fervor around loving literature is another.

Model your love of reading for your students!

Create a "Must Read" list in your class and update it frequently. Let students know you are a reader, too and, when appropriate, share your favorite authors and books with them. Post new finds in your classroom and always have a book on your desk. Let kids know you borrow from your school library.

Create a literacy rich environment.

Have a basket of content-themed books in your teaching space. Rotate what's in it periodically and let ambitious early finishers read. Begin to grow a library of books related to your content and keep it accessible in your classroom. Keep your books specific to your content area.

Design projects based on or connected to great books.

Share a connection to a book during instruction. The more you can do to encourage a love of reading, the better off your students will be and they will see a direct connection between the importance of literacy and your content.

Find out what strategies classroom teachers in your school are covering and use them in your room.

Incorporate literacy strategies when discussing text. This will reinforce skills, strategies and establishes a consistency in the curriculum across disciplines.

Create a vocabulary wall.

Build a word wall related to what you are teaching. This will enrich student vocabulary as well as the discussions in your classroom.

Collaborate with peers on interdisciplinary lessons.

Talk to the classroom teachers in your school and design some fun, collaborative projects.

Get kids writing in your content area!

It can be as simple as a lesson prompt or as advanced as an essay format research paper. Teach kids how to intelligently convey – with words – what they have learned in your content area.

Use inspiring vocabulary.

Give thought to the words you will use when presenting information. Of course, you need to use language on the students' level, but you should also be challenging them with new words – which you clarify and explain – so their vocabulary is always expanding. Academic conversations should not be reserved for English language arts only.

Literacy impacts daily educational opportunities for our students. Showing and sharing your passion for reading, as well as finding ways to integrate literacy in your lessons, will deepen understanding of your content and the world around them. What an amazing gift to give!

Secondary ELA

Teachers' Toolbox

November 2016



FREE Resource



CommonLit.org states that it delivers high-quality, free instructional materials to support literacy development for students in grades 5-12. CommonLit partners with many to bring quality texts, including NPR, The Digital Public Library of America, and others.

LOOKING FOR A TEXT??

- ✓ Can browse by text title (i.e. Anne Frank, President Obama)
- ✓ Can browse by theme (i.e. Death, Education, Honor & Courage)
- ✓ Can browse by genre or grade/lexile level

WANT TO USE IN CLASSROOM?

- ✓ Can download PDF, includes vocabulary foot notes, written text-dependent questions, and discussion questions for text-provides CCSC* aligned to
- ✓ Can create classes within CommonLit and assign text to students

HOW IS THIS USEFUL FOR STUDENTS?

- ✓ Using online text, students can have the text read aloud to them; students are able to choose the language to have it read in and adjust voice speed
- ✓ Within online text, "vocabulary hotspots" are provided next to some words that show definition when clicked on
- ✓ "Dictionary" tool available for students to select *any* word in text and have the definition provided to them

HOW IS THIS USEFUL FOR TEACHERS?

- ✓ Each text is accompanied by up to 5 multiple choice text-dependent questions and up to 3 discussion questions
- ✓ Each text is connected with 1) texts to use as a pairing with it 2) related media to the text (audio/video/art pieces) 3) a teacher guide and 4) a parent guide

*utilize IDOE [correlation guides](#) to see Indiana Academic Standards alignment

Global Learning in E/LA

Without adding more to your plate, you can globalize your classroom. In collaboration with Indiana University, we have your content [HERE](#) with examples of how to implement them using a global lens. Here's an example:

Grade: 10 **IAS 2014:** 9-10.SL.1 

Standard Description: Listen actively and adjust the use of spoken languages (e.g. conventions, style, vocabulary) to communicate effectively with a variety of audiences and for different purposes.

Suggestion for Integrating International

Content: Have each student assume the role of a speaker who will give a speech to an international audience. Students should research hand gestures, eye contact, posture, clothing, use of humor, etc., and perform their speech in a way that would be appropriate and avoid offending an international audience. Suggested resources: *Understanding Cultural Differences: Germans, French, and Americans* by Edward T. Hall and Mildred R. Hall (Intercultural Press, 1990); other books by the same authors or the same publisher; *Kiss, Bow, or Shake Hands* by Terrie Morrison and Wayne A. Conaway (Adams Media, 2nd ed., 2006).

Notes from Office Student Assessment

Things you may not have seen yet:

Released Part 1 Items and Scoring Notes: • a brief description of the types of questions on the test • a short summary of scoring rules utilized by the trained evaluators • a copy of the rubrics • a copy of the released Applied Skills questions • anchor papers – or sample student responses – used by evaluators to distinguish between score points

[Grade 6](#)

[Grade 7](#)

[Grade 8](#)

[Grade 10](#)

Contact: [Erin Thompson](#)

Things to revisit (If you are teaching grade 10 remediation for students who need to retake the Grade 10 English ECA):

Enhanced Guidance for English 10 ECA: • shows alignment of 2014 Indiana Academic Standards to 2006 IAS and ECA Notes • [PDF](#)

Released Items and Scoring Notes: • 2013 and 2014 available • 2015 will be available soon • [Here](#)

Contact: [Adam Mastrucci](#)

UDL & ELA Lesson Planning Tip:

Have you heard of UDL, Universal Design for Learning? Check out the [Instruction and Access for All](#) page in this month's Teachers' Toolbox for more information. Consider planning a lesson using the IDOE Standards Aligned Lesson Planning Template. Step 9 and 10 of this template addresses access for all learners. Perhaps you could incorporate the use of online text as a strategy for ensuring all learners can access grade level text.

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Secondary Science

Teachers' Toolbox

November 2016

Feedback As the year continues and we have our routine, are we giving high value feedback? Is it 1) Goal oriented, 2) Tangible and Transparent 3) Actionable 4) User-Friendly 5) Timely, 6) Ongoing, and 7) Consistent? Check out [Seven keys to effective Feedback](#) for more.

Science in Food With Thanksgiving fast approaching, food is on everyone's mind! Take advantage of this opportunity to tap into students curiosity, the world around them, and their love of food!

Take advantage of this opportunity to tap into students curiosity, the world around them, and their love of food!

- [Science Behind Our Food](#)
- [Science and Our Food Supply](#)
- [Discovery Education](#)
- [Ten Food Science Lessons Worth Learning](#)
- [The Chemistry of a Tender Turkey](#)

PAEMST Nomination



[The Presidential Awards for Excellence in Math or Science Teaching](#)

nominations are now available. Nominate someone today for a chance to receive a trip to Washington D.C. and \$10,000!

Launch Experiments into SPACE



11-18 year olds can design an experiment and compete to have it launched into space at NO COST. Register [here](#) by January 6th.

Science Standards:

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

Specialist Contact

Jarred Corwin

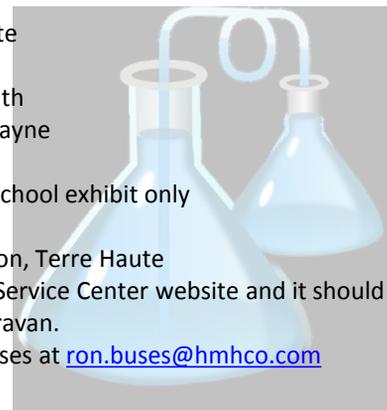
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Secondary Science and STEM Specialist



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

Text book caravan will have exhibits and presentations at all of the following sites and there will be digital versions of the various programs.

- ❖ January 17th Marten House
 - ❖ January 18th University Inn, W. Lafayette
 - ❖ January 19th Avalon Manor, Merrillville
 - ❖ January 24th Swan Lake Resort, Plymouth
 - ❖ January 25th Memorial Coliseum, Ft. Wayne
 - ❖ January 26th Horizon Center, Muncie
 - ❖ January 30th Clarion, Clarksville- After school exhibit only
 - ❖ February 1st Huntingburg Event Center
 - ❖ February 2nd The Landing at Fort Harrison, Terre Haute
- Teachers can sign up by visiting their area Service Center website and it should be listed under workshops or Textbook Caravan.
For additional information, contact Ron Buses at ron.buses@hnhco.com





NAE GRAND CHALLENGES FOR ENGINEERING

NATIONAL ACADEMY OF ENGINEERING

In the past 100 years, many great engineering achievements became so commonplace we now take them for granted. Technology allows us to have an abundant supply of food and safe water for much of the world. **What are the challenges that our children will face?**

The National Academy of Engineering (NAE) has identified these fourteen challenges that are the focus of not only their professional efforts, but should inspire the work that you do in the classroom as well.

NAE Grand Challenges for Engineering:

1. Advanced Personalized Learning
2. Make Solar Energy Economical
3. Enhance Virtual Reality
4. Reverse-Engineer the Brain
5. Engineer Better Medicines
6. Advanced Health Informatics
7. Restore and Improve Urban Infrastructure
8. Secure Cyberspace
9. Provide Access to Clean Water
10. Provide Energy from Fusion
11. Prevent Nuclear Terror
12. Manage the Nitrogen Cycle
13. Develop Carbon Sequestration Methods
14. Engineer the Tools of Scientific Discovery

How can you incorporate these in the classroom? Allow students from all levels and E&T courses to conduct projects across the spectrum of these Grand Challenges. These projects put context to the work that engineers do every day and will help students understand the importance of engineering in our society.

For more information and resources:

<http://www.engineeringchallenges.org/challenges.aspx>



Competition of the Month: Engineering Design

Participants (3+ on a team) develop a solution to a **NAE Grand Challenge**. This year's challenge is **Providing Access to Clean Water**. The solution offered will be informed and designed by precise problem definition, thorough research, creativity, experimentation (when possible), and the development of documents and appropriate models (mathematical, graphical, and/or physical prototype/model). Semifinalist teams present and defend their proposed solution to a panel of evaluators. This competition is for HS.

www.indianatsa.org

Cubes in Space™

Cubes in Space is the only program in the world to provide students (ages 11-18) with a **FREE** opportunity to design experiments to be launched into space on a **NASA** rocket or balloon!

- This is a Science, Technology, Engineering, Arts and Mathematics (STEAM) based global education program, enabling kids to learn about space exploration utilizing innovative problem-solving inquiry-based learning methods.
- This year, successful experiments/cubes will be launched into space via sounding rocket from NASA Wallops Flight Facility on Wallops Island, Virginia in late June 2017 or on a high altitude balloon launched from the NASA Columbia Scientific Balloon Facility at Fort Sumner, New Mexico in August 2017.

For More Information and to Register:

[Cubes in Space Website](#)
[Cubes in Space Promo Video](#)

Mary Rinehart

mrinehart@doe.in.gov

317-232-0815



@IndianaETE

Graphic Design Students at Anthis Career Center Describe Assignment



Naomi Sauter, Anthis Career Center graphic design student and Dena Irwin, State Program Leader

Students in Karen Gillie's graphic design class learn software to create logos, flyers, business cards, and much more. During a recent visit to her classroom, I met Naomi Sauter, one of her students. Naomi shared one assignment that involved the creation of a play poster based on client requests. The client stated: *"As the director and playwright, I was inspired by Gregory Maguire's unique rewrites of classic fairy tales. But then I started to think about what would happen if the characters from different books met somehow...and this play is the result. I don't want to spoil anything, but some real sparks fly when the Queen of Hearts and the Wizard of Oz get together! And the wicked witch, well, she's got her hands full trying to escape the clutches of an army of talking caterpillars. This play is one-third mystery, one-third dramedy and one-third just plain silly! Design a half-page ad for the local newspaper. Design a full page ad for the entertainment magazine. Design a poster that can be placed in public venues. Find or create artwork that illustrate the concepts of the play."*

Naomi decided to create Dorothy from the *Wizard of Oz* and Alice from *Alice Through the Looking Glass* walking towards the Emerald City. Naomi created the entire Emerald City, yellow brick road, sky, and surroundings from scratch. The use of color to bring the viewer's eyes to different locations on the page was amazing including the silhouettes of Dorothy with ruby slippers and Alice with a white apron and ribbon in her hair. Naomi has a bright future ahead in this career field. For more information about this assignment, contact Karen Gillie at Karen.Gillie@fwcs.k12.in.us.



Indiana Educators Create Employability Skills Curriculum

Brenda Duncan-Davis, a retired FACS teacher from Owen Valley High School and Christi McBride, the assistant director at Hoosier Hills Career Center, have developed the Y.E.S! Youth Employability Skills curriculum.

Topics on allocating resources, career paths, communication, critical thinking, decision making, diversity, effective relationships in the workplace, employer panel, first impressions, integrity, mock interviews, problem solving, resumes, teamwork, and time management are included in the curriculum.

More topics will be added through December on drugs, leadership, lean/six sigma (5 whys), mindset/grit, stress management, and work ethics.

Additionally, the ladies are producing several virtual tour videos from local industries that will be available via a website. If you are interested in learning more and potentially hosting a training workshop, contract Brenda Duncan-Davis at Brenda.duncandavis@gmail.com.

Indiana Business Education Association Conference

Wyndham Hotel, Indianapolis
November 18-19

[Conference Information](#)



State Program Leader

Dena Irwin

dirwin@doe.in.gov

317.233.6004

NOVEMBER IS BUSINESS EDUCATION MONTH

AHEC Works!

What is an AHEC? Are you partners with your regional AHEC? Are they members of your Advisory Board? The mission of the [Indiana Area Health Education Centers \(AHEC\) Network](#) is to improve health by recruiting, educating and retaining health care professionals in underserved communities. This is accomplished through three goals:

1. Find them (i.e. Outreach to under-represented minority and disadvantaged students in Indiana, Improve health career preparation in high schools)
2. Train them for healthcare jobs in Indiana (i.e. Improve readiness and ability of health professions trainees to serve, Enhance collaboration and partnerships with communities and schools and higher ed)
3. Keep them in healthcare jobs in Indiana (i.e. Increase access to training resources that support practice, address key issues in health profession shortage areas)

An AHEC is a network of [regional "centers"](#) that are coordinated through a central "program" office. Each regional center is locally grown and is designed to assess and meet the needs of citizens in that specific region. Indiana has eight independent regional offices that work to serve Hoosiers living in their designated counties. Indiana AHEC regions and Indiana HOSA regions align to increase the benefits and ease of using your AHEC as a resource and partner. Contact your AHEC director today and discover a valuable partner!



New FREE Classroom Resources:

The National Consortium for Health Science Education (NCHSE) has released a comprehensive and complete list of health science instructional best practice lessons and resources for the classroom that are FREE for use by all! The items are those materials that have been supplied by the participants of the 2013 and 2015 Master Teacher Institute/Institute for Educator Effectiveness. Materials and lesson idea categories include: • A&P • Assessment • Classroom Management • Clinical Experience • Community Service/HOSA • Employability Skills • Health Maintenance Practices • Legal Ethical Practice • Literacy • Medical Terminology • Safety • Teamwork • Technology. These new resources can be accessed [here](#) using the Username and Password *Guest1*.

Regional Lists of Top 50 Jobs in Indiana

Every two years, DWD releases [regional Hoosier Hot 50 Jobs lists](#) highlighting top jobs around the state. These regional lists are modeled after the statewide jobs list, and contain projections of the 50 most high-wage, high-demand jobs in each of Indiana's 12 economic growth regions over the next decade. Check out your region and use this information, along with your Advisory Council, to inform your program. Healthcare jobs are still at the top of the list!



2017 CDC Science Ambassador Teacher Training

July 10-14, 2017 • Atlanta, GA

- Attend a free PD workshop at CDC (Attendance at workshop is free. Participants are responsible for travel, food, & lodging)
- Participate in outbreak case studies
- Tour CDC Headquarters
- Collaborate with CDC scientists throughout the year to publish public health lesson plans
- Pilot lesson plans in your classroom
- Present at teacher conferences

Email the following to scienceambassador@cdc.gov by 2/15/17:

- CR or resume • Recommendation letter • Personal statement

SPACE IS LIMITED – APPLY EARLY!

For more information:

<http://bit.ly/2fxDsXP>

Email: scienceambassador@cdc.gov

Specialist Contact:

Sue Henry • suhenry@doe.in.gov
317-234-0217

Ivy Tech and Indiana Construction Roundtable Host Symposium



The Indiana Construction Round Table Foundation is hosting a Construction Symposium December 13th at the Ivy Tech campus in Noblesville. This event will be both educational and interactive which will provide students with an overall feel for the opportunities that exist in the construction industry through our universities and construction trade organizations. Activities will include an overview of employment opportunities available in both the Construction and Manufacturing fields; A look at affordable college programs that lead to high wage/high demand jobs in the construction industry; and an economic break down of the earning potential available in the construction industry and a look at labor demand in the field. Students who are currently involved in Career and Technical Education programs as well as students who are interested in seeking careers through higher education in the fields of construction management, engineering, and architecture are encouraged to attend. Registration is currently open. Please contact Ali Brown, ICRF Executive Director at ali@indianaconstruction.org with questions or to express interest in the event. You can also register online at <http://2016icrf.Eventbrite.com>



The Indiana Construction Roundtable Foundation is hosting a Construction Symposium at the Noblesville Ivy Tech Campus in December

SkillsUSA Teams up with SME

The Society of Manufacturing Engineers (SME) and SkillsUSA are teaming up to address the skills gap and fill the manufacturing workforce pipeline. The partnership will provide free memberships to educators and students throughout Indiana. SME's high school membership provides activities to educate students in career opportunities in manufacturing. Members also have access to a mentorship program, scholarship opportunities, competitions, and SME local chapter events. SME Chief Executive Jeff Krause says " Having worked with SkillsUSA on various initiatives over many years, this is yet another way that we can combine forces and make a difference in the lives of the next generation." There are currently more than 600,000 jobs available in manufacturing, with the expectation that number could grow to two million by 2025. You can visit: sme.org/high-school-membership to learn more about the high school partnership. You can also contact Natalie Lowell at nlowell@sme.org .

Resources

Odysseyware is a leading provider of award-winning, online K-12 Core, Elective and CTE curriculum and eLearning solutions for public, virtual, charter, and alternative schools. **Odysseyware's** flexible tools can meet and support each unique learner at their current level of achievement and place them on a path to graduation, a career, or college. **Odysseyware** is aligned to 16 Career Clusters to equip students with the specific skills necessary for success in these fields. To learn more contact Kasey Gilliss, your Indiana Representative at 317.671.1335.

Family and Consumer Sciences and Work Based Learning

Teachers' Toolbox

November 2016

New Safe Sleep Guidelines

Key recommendations:

- Babies should sleep in their parent's room (but not share a bed) for a minimum of 6 months but ideally a year
 - Safest spot-firm surface (crib or bassinet, never on a couch)
 - No soft bedding bumpers or pillows
- A-infants should sleep **A**lone with no bed sharing or objects in the sleep area
B-on the **B**ack
C-in a **C**rib or bassinet only



Indiana has a high rate of infant deaths related to unsafe sleep practices. Please review and incorporate this information into your classes. Click [here](#) for more information



USDA Farm to School Grant RFA Open, USDA has [announced](#) the release of the FY 2017 Farm to School Grant Program Request for Applications. Up to \$5 million in grant funds is available to help schools create or strengthen farm to school programs this school year.

Indiana is participating in the National Governors Association Policy Academy on Scaling Work Based Learning along with five other states: Iowa, Montana, New Hampshire, Utah, and Washington. The policy academy focuses on enhancing Work Based Learning and sharing best practices between participating states and agencies. Stay tuned for more.



Next Generation Teacher Scholarship

The State of Indiana will provide **200 scholarships each year** to high-achieving high school and college students interested in pursuing a career in education. The scholarship pays \$7,500 per year for up to four years to students who commit to teaching in Indiana after graduation.

Deadline: December 31, 2016 Click [Here](#) for more information

Family and Consumer Sciences Day
Dine in
December 3, 2016



<http://www.aafcs.org/fcsday/>

1. Ask your students to "Dine In" on December 3rd
2. Hang a ["Dining In" poster](#) in your classroom where other students can see it.
3. Share information about Family & Consumer Sciences Day with school publications.
4. Integrate the topic and day into your classroom lessons and activities.
5. Ask those who are in charge of the school lunch menu to include FCS Day on the December menu.
(Celebrate December 3rd or any other day that week)

School Wellness Policy

- All sponsors participating in the National School Lunch Program and/or School Breakfast Program are required to establish a local school wellness policy. A framework and guidelines for written wellness policies can be found [HERE](#).

Team Nutrition

- If your school participates in the National School Lunch Program, you can sign up for Team Nutrition and receive free resources.

Specialist Contact

Alyson McIntyre-Reiger
317.232.9168

amreiger@doe.in.gov

Agriculture Education

Teachers' Toolbox

November 2016

My Journey on FFA.org



Transform your planning with the free tips, lesson plans and updated resources on My Journey. Need a quick video to teach your students about an **agricultural company**?

The [Explore](#) page has information about **Monsanto**. Need sub plans? Look through the **chapter resources** on the [Build](#) page. The [Connect](#) section has a **current event article on agricultural drones**. Also, incorporate [AgExplorer](#) in your lessons and let students discover the 235 unique careers within agriculture. Don't forget: You can find past months' ideas and content in the document library within the [Archive](#) pages.

2017 FFA Week Living to Serve Grant

How will you transform your community? Apply for a 2017 FFA Week Living to Serve Grant from National FFA. The goal of the grant is to support middle school and high school FFA chapters across the country in hosting a service project during FFA Week. Applications are due November 16, 2016. Additional information on the FFA Week Grant is available on the [Living to Serve website](#).



SAE Grant Reminder

Due Nov. 15

Supervised Agricultural Experiences are a core part of agricultural education. Thanks to our sponsors, this year 149 SAE grants of \$1,000 have been made available to help FFA members start or expand an SAE. Applications are due Nov. 15, 2016 by 5:00 p.m. PST. [Click here](#) for more information.

National Ag Literacy Curriculum

The National Agricultural Literacy Curriculum Matrix is an online, searchable, and standards-based curriculum map for K-12 teachers. The Matrix contextualizes national education standards in science, social studies, and nutrition education with relevant instructional resources linked to Common Core Standards. Search our instructional, classroom-ready resources [now!](#)

Professional Development

Nov. 29-Dec. 3 – NAAE Vision

Jan 19 – IAAE Winter Workshop

State Program Leader Contact

Celya McCullah-Glowacki
cglowacki@doe.in.gov
317-234-5719

Fine Arts

Education Theatre Grants Available

The Educational Theatre Association and the International Thespian Society have grants available through the New Troupe Charter Grants.

The New Troupe Charter Grants program is enabling qualifying schools to fund the charter of an International Thespian Society troupe and induct up to ten students.

Qualifications include a school-wide Title I designation and the production of at least one show per year for the two school years preceding the year of the grant application.

The grants are for the 2016-17 school year and limited funding is still available. More detailed information about the New Troupe Charter Grants program and application process is on the EdTA website at schooltheatre.org/newtroupegrants.



NEW TROUPE
CHARTER GRANTS

Rainstorms and Symphonies: Performing Arts Bring Abstract Concepts to Life

When early elementary teachers integrate music and theater, student learning improves in reading, math, and science as they become better critical thinkers and problem solvers.

In an early childhood classroom in Maryland, the classic children's song "Frere Jacques" is transformed into an active lesson about predicting weather patterns. As a group of active children sing, they move their bodies around like floating clouds, making their arms big like balloons as they fill up first with air, then with water. When they become too full with water droplets, they mimic falling rain with their fingers, make the sounds of thunder with their mouths, and move their bodies limply as empty clouds. Through music and movement -- as musicians and actors -- the children don't just learn about rain, they engage their imaginations and embody the water cycle. This lesson is arts integration at work.

For more, click [HERE](#)



The quality and variety of the contributions of Indiana's artists have created legacies of regional, national, and international distinction that are highlighted in honor of the state's bicentennial year. Docent-led tours of the 19 Stars exhibition are available daily.

For more information:
<http://www.imamuseum.org/19stars>

Professional Development

November 11-12 – Art Education Association of Indiana State Convention, Hamilton Southeastern HS, Fishers, IN

** If you know of any other PDs, please let Celya know!*



Calling all Dance, Theater, Art and Music Teachers:

In the 2016-17 school year the Indiana Department of Education plans to evaluate course standards. If you are interested in being part of the review committee please contact your specialist listed below with your name, subject area, school and contact information.

Specialist Contact

Celya Glowacki
cglowacki@doe.in.gov
317-234-5719