

College and Career Readiness Standards (CCRS) and GED® 2014 Resource List

The College and Career Readiness Standards (CCRS) and GED® 2014 Resource List contains websites, articles, and instructional materials to help adult educators update curriculum and instructional practice to align with the new standards and GED® test. The list was prepared by the Content Experts and will be updated with additional information throughout the year.

Resource Title	Category	Access to Resource	Description
Achieve the Core	Assessment	www.achievethecore.org	This comprehensive website compiles and organizes excellent CCRS/GED® assessment resources including tools for 1) assessing text complexity, 2) matching learners to texts, and 3) informal classroom-based assessment.
Bringing words to life	Assessment	Beck, I., McKeown, M. G., and Kucan, L. (2002). <i>Bringing words to life</i> . NY: Guilford.	This book provides good suggestions for and examples of academic vocabulary assessment in addition to instructional resources.
LINCS Resource Collection on Assessment	Assessment	https://lincs.ed.gov/collections	This is a national depository for resources on assessment, which includes the NIFL Assessment Strategies and Reading Profiles site.
Academic Language Development Network	ESL	http://aldnetwork.org/academic-language	Two websites developed by Jeff Zwiers, Academic Language Development and Academic Language & Literacy developed by Jeff Zwiers offer research articles, videos, lesson plans, and many practical tools for teaching the academic language required by the CCRS. Although the context is K12, the resources are relevant to adult educators, too.
Academic Word List	ESL	http://www.victoria.ac.nz/lals/resources/academic-wordlist/	Averil Coxhead, a researcher at the University of New Zealand, has done corpus studies to identify the most common academic words which are used across academic disciplines. The 570 words from the Academic Word List can be found at this site. It is critical that teachers identify the academic words in the texts they are using in class and teach students how to use these words in both speaking and writing.
Accountable Talk	ESL	http://ifl.pitt.edu/index.php/educator_resources/accountable_talk	The Institute for Learning at the University of Pittsburgh has a free Sourcebook for a recommended practice referred to as “Accountable Talk®,” which is available on their website. As explained on the website, “The ‘accountable’ in <i>Accountable Talk</i> comes from its three dimensions: Accountability to the Learning Community, Accountability to Accurate Knowledge, and Accountability to Rigorous Thinking.” The emphasis is on building and enhancing students’ ability to engage effectively in academic conversations in class.
Colorin Colorado	ESL	http://blog.colorincolorado.org/?s=close+reading	The Common Core and English Language Learners is a regularly updated blog, hosted on the Colorin Colorado site by Dr. Diane Staehr Fenner that includes many useful articles for K12 educators working with English learners on the Common Core and the CCRS. These resources are also relevant to adult educators. The Colorin Colorado site is also useful to family literacy practitioners since it includes many resources for parents who are learning English to help them to better understand how to support their children’s learning of the Common Core. The following link takes you to blog posts focused specifically on close reading of complex texts with English learners.
Cutting to the Common Core: Analyzing Informational Text	ESL	http://minnetesoljournal.org/spring-2014/cutting-to-the-common-core-analyzing-informational-text	Kate Kinsella is one of the most important voices in supporting all teachers to address the new standards for English learners. The <i>MinneTESOL Journal</i> featured an article, “Cutting to the Common Core: Analyzing Informational Text” by Kinsella in spring of 2014. In this article, teachers will find many concrete teaching ideas for analyzing and teaching complex text.
How to Start Academic Conversations	ESL	http://www.ped.state.nm.us/QualityAssuranceSystemsIntegration/dl09%20/EL%20Summit/How%20to%20Start%20Academic%20Conversations.pdf	Jeff Zwiers and Marie Crawford believe that building the academic language skills as expected in the Common Core (and the CCRS) start with supporting students to engage in meaningful conversations in class. In other words, it is through talk that students begin to enhance their understanding of academic content. In this article, “How to Start Academic Conversations,” teachers will find many practical steps to structure opportunities for learners to engage in in depth discussions with one another.

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Larry Ferlazzo's Education Blog	ESL	https://larryferlazzo.edublogs.org/?s=common+core	Larry Ferlazzo, a high school social studies and English teacher in California, has one of the very best blogs for teachers of English language learners. Most of the resources shared can be readily adapted for working with adult English learners. Ferlazzo addresses a wide range of topics and regularly adds to his "best websites" for teaching ELLs, e.g., best websites to explore jobs and careers, best online video sites for learning English, best sites for learning about nutrition and food safety, the best science and math sites, etc. Ferlazzo's blog can be easily searched to locate many resources related to supporting ELLs to achieve the standards.
Overview of the Common Core State Standards Initiative for ELLs	ESL	http://www.tesol.org/docs/advocacy/overview-of-common-core-state-standards-initiatives-for-ells-a-tesol-issue-brief-march-2013.pdf?sfvrsn=6	In March of 2013, the Teachers of English to Speakers of Other Languages (TESOL) professional organization published an issue brief entitled <i>Overview of the Common Core State Standards Initiative for ELLs</i> . While focused on K12, most of the content of this brief is relevant for adult educators who are implementing the College and Career Readiness Standards.
Promoting learner transitions to postsecondary education and work: Developing academic readiness skills from the beginning	ESL	http://www.cal.org/caelanetwork/resources/transitions.html	In this brief, the authors explain that ESL teachers need to begin preparing students to transition from the very beginning of instruction. The article includes practical examples for how to do so.
Reading for Understanding: How Reading Apprenticeship Improves Disciplinary Learning in Secondary and College Classrooms, 2 nd Edition	ESL	http://www.wested.org/resources/reading-for-understanding-how-reading-apprenticeship-improves-disciplinary-learning-in-secondary-and-college-classrooms-2nd-edition/	The book <i>Reading for Understanding: How Reading Apprenticeship Improves Disciplinary Learning in Secondary and College Classrooms</i> by Schoenbach, Greenleaf and Murphy and published by West Ed in 2012 is a highly recommended resource for all teachers. The book and the website include many examples drawn from actual classrooms, including GED® classrooms and classrooms with adult English learners. The West Ed website features many excellent resources, including videos that illustrate the Reading Apprenticeship principles. Large selections of the text are available for free download as are many other resources, including student handouts.
The Massachusetts Community Colleges & Workforce Development Transformation Agenda	ESL	http://mccwdta.etlo.org/	This site requires individuals to register to access the online resources. Once registered, teachers can download an array of contextualized lesson plans targeting literacy and math that are aligned to the standards. While the materials were not designed specifically for English learners, they support teachers to contextualize instruction around meaningful content related to students' goals in three key industry sectors, i.e. manufacturing, healthcare, and information technology. The lesson plans target advanced level learners but can potentially be adapted for learners at lower levels. The site also features a report "Models of Contextualization in Developmental and Adult Basic Education" published in 2012, discussion forums, and a few brief videos of teachers discussing implementation.
Transitions Integration Framework	ESL	http://atlasabe.org/LiteratureRetrieve.aspx?ID=184700	Adult educators in Minnesota recognized that teachers needed support to implement the CCRS standards with learners at the lowest levels. The ACES (Academic Career & Employability Skills) project engaged in a two-year effort to identify the foundational skills and sub-skills embedded in the standards that should be the focus of instruction at the lowest levels. The Transitions Integration Framework outlines eight critical categories of skills: Effective Communication, Learning Strategies, Academic Learning and Skills, Numeracy, Critical Thinking Skills, Self-Management, Developing a Future Pathway, and Navigating Systems. Within these eight categories, the tool identifies and prioritizes the key skills and sub-skills embedded within each. Sample activities that demonstrate integration of skills into all levels of classroom instruction are also included.
Understanding Language (at Stanford University)	ESL	http://ell.stanford.edu/	This K-12 site focuses on implementing the Common Core with English learners. The rich array of resources at this site highlights the special challenges the Common Core represents to English language learners. The site includes research articles, video presentations by experts, and a collection of high-quality, detailed lesson plans that support learners to achieve the standards, which can easily be adapted for adult learners.

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Vocabulary Profiler	ESL	http://www.lex tutor.ca/vp/eng/	Tom Cobb's Vocabulary Profiler is a free online tool that identifies words from the Academic Word List for any text. Teachers can simply copy and paste a selected text into a textbox on the site to easily determine which words in the chosen text are part of the Academic Word List. This tool helps teachers to prioritize which words to devote to instruction.
Word Generation	ESL	http://wordgen.serpmedia.org/	The Strategic Education Research Partnership (SERP) has created a website with an amazing assortment of high-quality K12 lesson plans in social studies and science that outline how to effectively teach the Common Core and CCRS. These Word Generation science and social studies lessons at various levels have been fully vetted and emphasize the effective teaching of the academic language needed to achieve success on the standards. Many of these lesson plans can be easily adapted for adult learners.
ADPRIMA	General	http://www.adprima.com/objectives.htm	The site developer, Dr. Bob Kilzik, writes in a very easy to read style and discusses a critical component of effective teaching, the ability to conceptualize and develop effective learning objectives. This is the foundation for skill monitoring which can lead to instructional adaptation, a key component of improving the learning of students encountering difficulties.
Adults with Learning Differences	General	www.drgacka.com	This site contains a wide range of links to relevant readings, checklists, and resources. Unlike many sites that might result from a web search, this site deals with implications for adult educators. The new section of the classroom toolbox promotes the important concept of using everyday materials to help students organize their learning. The section dealing with the "snippets" address many areas of instruction that appear simple, but in fact address important areas related to learning difficulty.
Mometrix Test Preparation	General	http://www.mometrix.com/academy/ged-test/	The Mometrix Test Preparation website offers free, interactive sample GED questions and short video lectures to help learners prepare for the GED test. Content includes videos and practice on Math, Reasoning Through Language Arts, Science, and Social Studies, and can serve as an introduction to the scope and depth of material in the new 2014 GED test.
Ohio Resource Center (GED®/CCRS Specific)	General	http://www.ohiorc.org/	This site is for K-12 but the materials and lessons can be adapted for adult students. The lessons can be searched by Common Core.
Pre-Instruction Checklist	General	https://dl.dropboxusercontent.com/u/23642905/Activity%20Planning%20Checklist%20for%20Instr%20and%20Tutors%202-24-13%20copy%202.docx	A pre-instruction "checklist" helps to focus attention on important considerations. Being prepared and making sure that all-important bases are covered are important elements of effective instruction.
Steal These Tools (GED®/CCRS Specific)	General	http://www.achievethecore.com/	This website is full of free content designed to help educators understand and implement the Common Core. It includes practical tools designed to help students and teachers see their hard work deliver results. achievethecore.org was created in the spirit of collaboration. Please steal these tools and share them with others.
Teach Like a Champion	General	Lemov, D. (2010). <i>Teach like a champion: 49 techniques that put students on the path to college</i> . San Francisco: Jossey-Bass Inc Pub.	This book touches upon many critical elements that would enhance instruction, especially in the current environment of increasing rigor that is being expected. At a basic level, many of Lemov's techniques speak to classroom management and development of critical attention, perseverance, and response skills. The techniques address many important classroom management skills, but the ultimate finesse with which they are developed will define the appropriate use with adults. The materials in this book are helpful to adult education instructors but should be cautiously used as a guide for identifying critical elements of classroom instruction, not as a "cookbook" of strategies to be implemented without modification.

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Teach Like a Champion Notes	General	http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=6&ved=0CFoQFJAF&url=http%3A%2F%2Fwww.wha.k12.mn.us%2Ffile%2F279%2Fdownload&ei=wMIIU8SRHOPf0gHmz4CwBA&usg=AFQjCNFpk-lvGu6lgrblmaJxwgy-TRwIA&sig2=OXtUPq7AwQ6ZN0-YPuDM-A	This site provides a synopsis of the techniques used in Doug Lemov's book, Teach Like a Champion. It can be used as a good starting point for identifying key strategies that might be important for any classroom.
Activities to Build Math Understanding	Math	http://achievethecore.org/dashboard/300/search/1/2/0/1/2/3/4/5/6/7/8/9/10/11/12	This site is a rich resource for interesting math activities at all K-12 levels, but are usually relevant to adults and are Common Core aligned.
Activities to Develop Math Problem Solving	Math	http://www.bie.org/project_search	This search engine provides access to various project-based learning activities useful for math and science instruction.
Algebraic Thinking in Adult Education	Math	https://lincs.ed.gov/publications/pdf/algebra_paper_2010V.pdf	This site discusses research findings on effective math instruction strategies for adult learners.
CCRS - Mathematical Practices	Math	http://www.illustrativemathematics.org/MP1	This site provides explanations with videos of the eight Mathematical Practices from Common Core and CCRS. GED® is aligned with these practices. See resources for all eight practices by clicking on the numbers 1-8 on the right side.
GED® Test Info: Mathematics	Math	http://www.pbs.org/teacherline/catalog/courses/LEAD1141/	This free online professional development course offers a review of basic information about the entire GED® test and its four subjects; the Mathematics sections cover mathematics test content in more detail including instructional tips and techniques. Teachers have the option to complete a quiz in order to earn a Certificate of Completion. The course is three hours long, self-paced, and accessible for one year after enrollment.
Illustrative Mathematics	Math	http://www.illustrativemathematics.org/	Search "Find Tasks"(on the left side) by grade to find tasks that are categorized by Common Core. It includes hundreds of good, GED®-like tasks with sample solutions.
LINCS Math Community of Practice	Math	https://community.lincs.ed.gov/group/math-and-numeracy	This is a virtual network for practitioners, advocates, researchers, and others who are interested in discussing mathematics and numeracy issues in the field of adult literacy. The group promotes sharing of information, research, expertise, and resources on topics of math and technology education, GED® math skills, instructional strategies, etc. It includes a discussion board which was last updated on March 13, 2013. The last discussion comment was uploaded in January of 2013.
Activities to Build College-Level Reading Skills	Reading, Vocabulary, Writing	http://www.adlit.org/article/32666/	This site offers suggestions for helping students build comprehension in the following areas: Main Ideas and Author's Approach, Supporting Details, Relationships, Meanings of Words, and Generalizations and Conclusions.
Adult Education Literacy Instruction: A Review of the Research	Reading, Vocabulary, Writing	https://lincs.ed.gov/publications/pdf/adult_ed_2010.pdf	This links to a document printed by the National Institute for Literacy which identifies and evaluates existing research related to adult literacy reading instruction. It presents findings from Adult Education (AE) research that can be usefully applied to the AE setting. It is meant for AE practitioners and reading researchers.
Applying Research in Reading Instruction for Adults: First Steps for Teachers	Reading, Vocabulary, Writing	https://lincs.ed.gov/publications/pdf/applyingresearch.pdf	This links to a document printed by the National Institute for Literacy to promote scientifically based reading instruction for adult educators. It provides information about teaching reading to adult learners including phonics instruction, vocabulary development, fluency, and assessments, etc.

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Assessment Strategies and Reading Profiles	Reading, Vocabulary, Writing	http://lincs.ed.gov/readingprofiles/	This site provides research-based assessment strategies to improve reading instruction for ABE and ASE. It is intended for ABE and ASE teachers, program administrators, and staff developers, and offers access to instructional suggestions for teaching adult learners, free tests, and additional resources on reading, assessment, and instruction.
Bringing Research-Based Writing Instructional Practices to Life - Instructional Practice PPT	Reading, Vocabulary, Writing	https://wested.app.box.com/dww/1/1374275718/12254046034/1	This PowerPoint file contains information presented during a webinar in which a panel of experts provided an overview of the teaching writing practice guide and a discussion of strategies for implementing research-based recommendations in the classroom.
Cognitive Strategies for Comprehension	Reading, Vocabulary, Writing	http://www.adlit.org/article/21573/?utm	Cognitive strategy instruction develops the thinking skills that will make students strategic, flexible learners. This article describes eight tools that every adult reader should have at hand.
Doing What Works Materials (all topics)	Reading, Vocabulary, Writing	wested.app.box.com/dww	This site provides 22 Doing What Works (DWW) materials for topics on literacy, math, and behavioral problems for K-12 and adult education.
Doing What Works: Teaching Elementary School Students to Be Effective Writers	Reading, Vocabulary, Writing	wested.app.box.com/dww/1/1185757099	This Doing What Works (DWW) public file provides practice resources, lesson plans, and writing topics for instructors to use for improve writing skills of their students. Even though this guide is directed at elementary students, the recommendations are the same ones identified for adult literacy and GED® students.
GED® Test Info: Reasoning Through Language Arts	Reading, Vocabulary, Writing	http://www.pbs.org/teacherline/catalog/courses/LEAD1135/	This free online professional development course offers a review of basic information about the entire GED® and its four subjects; the Reasoning through Language Arts sections cover Language Arts test content in more detail including instructional tips and techniques. Teachers have the option to complete a quiz and earn a Certificate of Completion. The course is three hours long, self-paced, and accessible for one year after enrollment.
IES Practice Guide: Teaching Elementary School Students to Be Effective Writers	Reading, Vocabulary, Writing	ies.ed.gov/ncee/wwc/practiceguide.aspx?sid=17	This practice guide provides four recommendations for improving elementary students' writing. Each recommendation includes implementation steps and solutions for common roadblocks. The recommendations also summarize and rate supporting evidence. This guide is geared toward teachers, literacy coaches, and other educators who want to improve the writing of their students. Even though this guide is directed at elementary students, the four recommendations are the same ones identified for adult literacy and GED® students.
Improving Adult Literacy Instruction: Developing Reading and Writing	Reading, Vocabulary, Writing	http://www.nap.edu/catalog.php?record_id=13468	This document is based on the report, Improving Adult Literacy Instruction: Options for Practice and Research, released by the US Department of Education. It presents an overview of what is known about how literacy develops the component skills of reading and writing, and the practices that are effective for developing them. It also provides descriptions of the principles of reading and writing instruction helpful to instructors and course developers.
LINCS Reading/Writing Community of Practice	Reading, Vocabulary, Writing	https://community.lincs.ed.gov/group/reading-and-writing	This is a virtual network for practitioners, advocates, researchers, and others who are interested in discussing reading and writing in the field of adult literacy. It includes a discussion board. The last discussion comment was uploaded in January of 2013.
LINCS Reading/Writing Resources	Reading, Vocabulary, Writing	http://lincs.ed.gov/collections?keys=&field_rcis_topic_areas_value[0]=Reading%20and%20Writing	This site is a search engine for reading and writing resources provided by LINCS. It contains 49 resources on the subject of teaching writing and reading skills in both adult literacy and children's education.
Providing an All-Access Pass via academic vocabulary	Reading, Vocabulary, Writing	http://www2.justaskpublications.com/mccca/Providing-an-All-Access-Pass-Via-Academic-	This article contains good general information about vocabulary instruction, including what does and does not work.
Teaching Adults to Read	Reading, Vocabulary, Writing	http://lincs.ed.gov/publications/reading_comp_onets	This links to a series of five Teaching Adults to Read online, self-paced LINCS courses that are available for adult educators who would like to learn more about teaching the components of reading: Alphabetic, Fluency, Vocabulary, Comprehension, and Assessment Strategies and Reading Profiles.

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Teaching Excellence in Adult Literacy	Reading, Vocabulary, Writing	https://teal.ed.gov/	TEAL is designed to improve the quality of teaching in adult education in the content areas. TEAL Center materials, which are adaptable to a variety of program environments and instructional levels, are designed to help instructors learn to integrate practices within the content area of writing instruction. The TEAL Just Write! Guide is one of the resources available on the TEAL website. This resource for ABE teachers is intended to increase familiarity with evidence-based writing instruction and to facilitate translation of research findings into teaching practices and products that will enhance the quality of instruction delivered to adult learners.
Words to Study for the GED® Test	Reading, Vocabulary, Writing	farrellink.com/2013/10/08/words-to-study-for-the-ged-test/	This site contains two word lists that would be useful for vocabulary instruction and includes information on how to use them.
AAAS Atlas of Population and Environment	Science	http://atlas.aaas.org/	This website contains a variety of information. Part 2 is the actual atlas. It contains 4-page articles (2 pages are infographics!) on topics, such as natural resources, energy, land use, minerals, ecosystems, diversity, etc.
Bacteria and Virus Venn Diagram	Science	http://creately.com/diagram/example/hcqvyf502/Bacteria+vs.+Viruses+	Here is a completed Venn Diagram. Your students can create their own diagram using information from the web (after they read Ten Things to Know) and a template from ReadWriteThink http://www.readwritethink.org/files/resources/interactives/venn_diagrams/
CDC Influenza Dashboard	Science	http://gis.cdc.gov/grasp/fluview/fluportaldashboard.html	The FluView Dashboard displays incidence and other flu data using four display types: Map, Line Chart, Pie Chart, and Column Chart. The Dashboard provides an opportunity to explore the challenges of reading graphical information.
CDC Influenza Website	Science	http://www.cdc.gov/flu/about/disease/index.htm	Are you and your students coming down with the flu? Learn the basics of seasonal flu and then track its progress this winter and spring.
Dependent and Independent Variables Explained	Science	http://www.sasd.k12.pa.us/Downloads/Dependent%20and%20Independent%20Variables%20Explained.pdf	This short PowerPoint does a great job of explaining the concept of variables and constants in an experiment.
Easy-to-Read Resources from MedlinePlus	Science	http://www.nlm.nih.gov/medlineplus/all_easytoread.html	Students bring many health-related questions in class. For example, "How come my doctor didn't prescribe antibiotics?" This website, created by the U.S. National Library of Medicine, links to hundreds of easy-to-read resources on wide variety of health topic.
Exploring the Science Module of the 2014 GED®	Science	http://www.gedtestingservice.com/uploads/files/bdef1f2c97c1a2da416eb076c528af75.pdf	This document is a slide show with notes. It identifies the similarities and differences between the 2002 and 2014 GED®, describes the framework used for the newest test (science practices), how the short answers are scored, and suggestions for integrating science into your instruction.
Flu WigIt	Science	http://www.cdc.gov/flu/fluig.htm	Want to try a quick, 10 question quiz about the flu with your students? You can even add it to a classroom blog or website.
Free 2014 GED® Science Practice Test	Science	http://www.gedtestingservice.com/educators/freepretest	Scroll down and look on the right side for the link to the free science practice test for English and Spanish. Also, look at the six-page Science Practice Test Companion document that relates the practice test questions to science practices and content areas.
GED® Home Study Guides: Science	Science	http://www.gedboard.com/courses/science/	Are your students out due to bad weather? Here are brief home study guides to help them maintain momentum.
How A Virus Works	Science	https://www.youtube.com/watch?v=cE0qdg0BFa8	This animation describes how a virus enters the body and replicates. You and your students can watch it on smartphones, if you don't have computer access in your classroom. It is a marvel of medical animation, a career students may be interested in.

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How Big Are Things? Cube	Science	http://www.vendian.org/howbig/cube/	Interested in thinking more about scale with students? This "How Big" cube is easy to make and helps familiarize students with several examples, including the solar system.
Influenza Tutorial	Science	http://www.nlm.nih.gov/medlineplus/tutorials/influenza/htm/index.htm	This provides basic information on influenza. Students interested in health careers may be particularly studying this and other interactive tutorials on the Medline Plus website.
Introduction to Climatology	Science	http://www.oercommons.org/courses/introduction-to-climatology/view	This Open Education Resource (OER) is a series of 30 second to 2 minute narrated videos on the basics of climatology with quizzes. While the vocabulary is sometimes challenging, students who are strong auditory learners will appreciate the narration. And, there is a printed version to use as a reference. You will need to set up a free access account but that allows you to have student quiz results sent to you. Print version: https://www.metted.ucar.edu/afwa/climo/intro/print.htm#z1.1
Investigating Eyesight	Science	http://www.abc.net.au/science/surfingscientist/pdf/lesson_3_eyesight.pdf	Through this lesson plan and student worksheet, students work through a series of hands-on activities and readings that increase their technical vocabulary. Most students find the activities very interesting and take them home to try with their family and friends.
LINCS Community of Practice: Science Group	Science	https://community.lincs.ed.gov/group/science	The group is a community of practice for practitioners, researchers, advocates, and policymakers to explore issues pertaining to teaching science in the field of adult literacy. You will need to complete a brief registration process.
LINCS Learning Portal	Science	http://lincs.ed.gov/courses	The LINCS Resource Collection team is developing a suite of Science Courses that will help teachers use Science in Adult Education classrooms. Each self-paced online course is free, includes multimedia activities, and will provide participants with a certificate upon completion.
LINCS Resource Collection on Science	Science	http://lincs.ed.gov/collections?keys=	This is a national repository of high quality resources appropriate for adult learners or for program staff providing adult basic education services; scroll down topic area to Science.
OER Commons	Science	https://www.oercommons.org/	This is an easy-to-search website of free lesson plans and activities. Just click on Browse All and choose Science and Technology. It will bring you to a screen where you can choose levels of education, etc.
Overview of Earth Science Lesson Plan	Science	http://mnliteracy.org/sites/default/files/gedscience_unit_1.1_earth_and_space_introduction.pdf	This is a lesson plan that is done in small groups but, in bad weather when students can't make it to class, they can do it from home using a computer or smart phone.
PBS Teach NGSS Engineering Design Through Media: Grades 6-8	Science	http://www.pbslearningmedia.org/collection/ngss-eng/	This collection offers many media-rich resources to help bring engineering alive for students. It highlights the science and engineering practices of communicating ideas, defining problems, and planning and carrying out investigations.
Pennsylvania State Climatologist	Science	http://climate.psu.edu/	Did you know you have a State Climatologist? The Pennsylvania State Climatologist is a service to the Commonwealth by the College of Earth and Mineral Sciences and Penn State. There is lots to explore, including an Events Database: http://climate.psu.edu/data/events/ Interpreting the database output is challenging (like the 2014 GED®) so make sure you read the legend on the page before the database and start with a small range of dates.
Reaction Time: 12 Activities to Learn More	Science	http://www.cfep.uci.edu/cspi/docs/lessons_secoundary/Nervous%20System%20Lab%20Practicum.pdf	Based on the Next Generation Science Standards for Biology and the Common Core, this lab includes strategies for extended writing.
Reaction Time: How Fast Are You?	Science	http://sciencenetlinks.com/lessons/reaction-time-1-how-fast-are-you/	This two-part lesson uses the topic of baseball to discuss reaction time. How do batters hit a ball coming at them at 95 miles per hour? Use the short entries as a reading assignment for students.

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Reaction Time and Error Analysis	Science	https://staff.rockwood.k12.mo.us/wierjoseph/apphysics/AP%20Physics%20A%20Documents/AP%20Ch%201/activity_-_measuring_your.pdf	Level of precision is an important concept in both math and science. Begin with side one of this exercise, the move to th questions at the bottom of side two. How do scientists take uncertainty and measurement into consideration?
The Great Pandemic: The United States in 1918-1919	Science	http://www.flu.gov/pandemic/history/1918/	For students who may find the historical route into science more appealing, this site provides primary source material, including information about Pennsylvania, one of the hardest hit states.
The Three Dimensions of the K-12 Science Education Framework - link	Science	http://www.nap.edu/openbook.php?record_id=13165&page=3	This document that outlines a broad set of expectations for students in K-12 science and engineering education. The expectation leads to the development of new standards for K-12 science education and revisions to curriculum, instruction, assessment, and professional development.
The Three Dimensions of the K-12 Science Education Framework - report	Science	<i>The Framework for K-12 Science Education: Practices, Crosscutting Concepts, and Core Ideas</i> (Quinn, Schweingruber, & Keller, Eds), 2012, The National Academies Press)	This document outlines a broad set of expectations for students in K-12 science and engineering education. The expectation leads to the development of new standards for K-12 science education and revisions to curriculum, instruction, assessment, and professional development.
TV411 Science Series, What's Cooking	Science	http://www.tv411.org/science	Videos that connect science and health with cooking on topics of bacteria, heat, carbohydrates, photosynthesis, salt, and water; includes printable teacher's guide AND recipes.
Understanding Car Crashes: It's Basic Physics	Science	http://education.ufl.edu/giones/files/2013/04/teachers_guidePhysics.pdf	This series with lesson plans and videos covers key scientific principles, such as inertia, momentum, and conservation of energy. Most of the activities are very engaging. For example, look at "Penny for Your Thoughts on Inertia" on page 3. Don't be put off by the "fill-in-the-blank" video concept organizers at the start of the lesson plan. They are provided for students to gather some basic information if they are watching the videos for homework.
Water Works Lesson Plan	Science	http://sfa.terc.edu/	Statistics for Action provides opportunities for practicing math, science, and reading skills in a dramatic community context: one where people's health, homes, and children's well-being are on the line. Topics include soil quality, air quality, water quality lessons, as well as a unit on hazardous waste. Data sets provided.
What's Your Reaction Time?	Science	http://www.exploratorium.edu/baseball/reactiontime.html	Have students use a computer or cellphone with a touch pad to measure their reaction time. Make sure you begin by asking them to guess their reaction time. Here's another way to measure reaction time and the creator, Jim Allen, provides directions and permission to use the application to your website. http://www.getyourwebsitehere.com/jswb/rttest01.html
Your Health, The Science Inside	Science	http://ehrweb01.aas.org/science-inside/files/2012/03/YourHealth.pdf	This interesting reader on advancing in medical care starts with an engaging story on page 5 titled, "Your Health, Then and Now." It talks about 150 years ago when infectious disease was the big killer (somewhat ironic considering our recent Ebola concerns). It provides more extended reading experience for all students at the upper ABE/ESL and ASE level. The appendices include Things to Know about Evaluating Medical Resources on the Web.
Connecting literacy, learning & work	Transition	http://www.nald.ca/library/learning/christine/connecting/connecting.pdf	This in-depth resource explains how a program in Canada shifted priorities to focus on the specific language and skills learners need at work. Their collaboration with local employers has enabled learners to gain employment and to become successful on the job. Learner persistence rates have improved dramatically as a result of this shift.
Integrating career awareness into the ABE and ESOL classroom.	Transition	http://lincs.ed.gov/lincs/resourcecollections/careerpathways/profile_14	This practical toolkit features a large collection of detailed lesson plans and student handouts focusing on career awareness. The lessons are appropriate for high intermediate to advanced English learners.