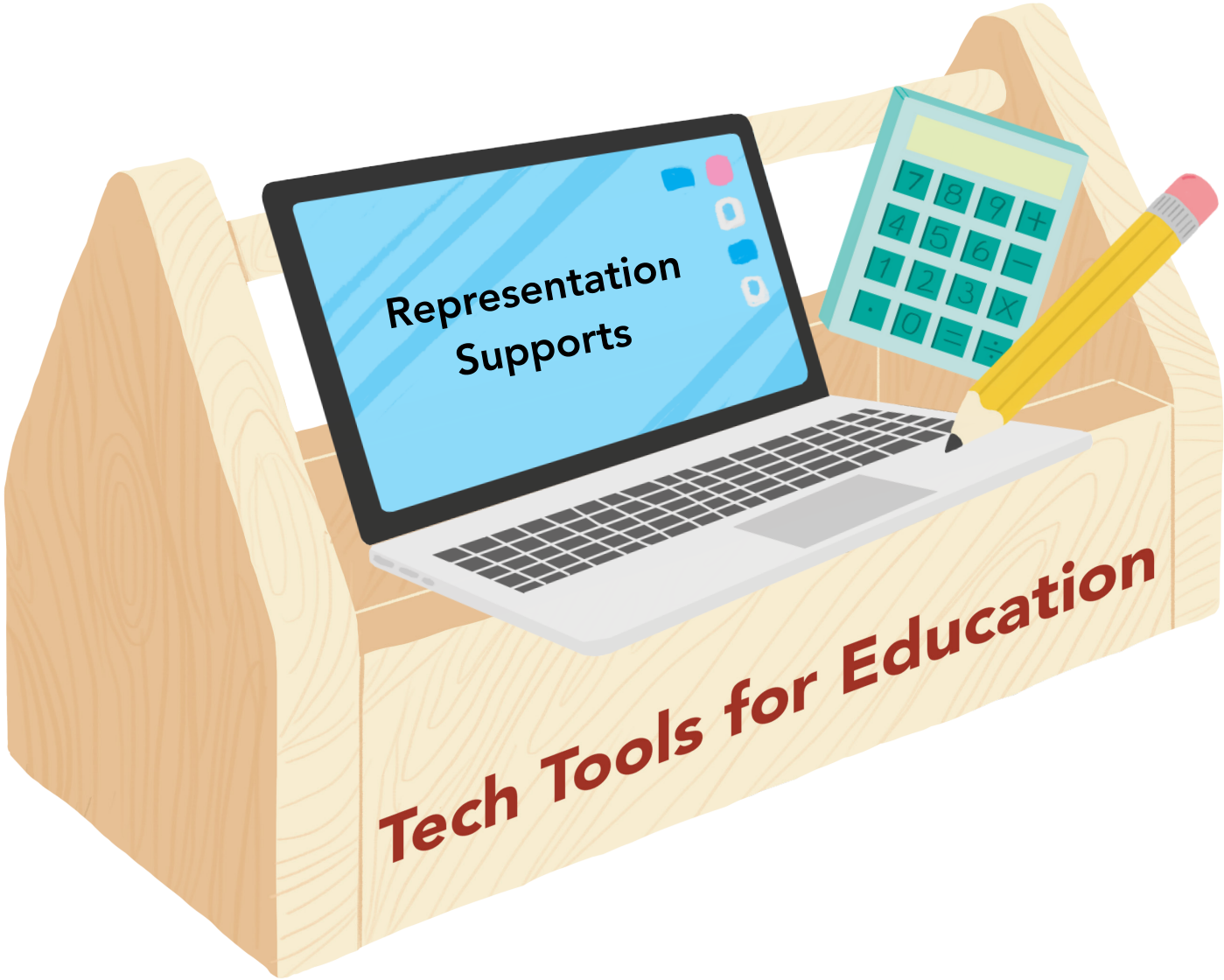
# Toolbox




**Acknowledgments**

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| Provide Options for Language and Symbols | |
|---|---|
| **Options that define vocabulary and symbols** Example: Paper or digital dictionary and thesaurus tools, pre-teaching vocabulary, embedding vocabulary support in texts. | |
| Webster's Visual Dictionary | http://visual.merriam-webster.com/index.php |
| Dictionary. com | http://dictionary.reference.com |
| Wikipedia | http://www.wikipedia.org |
| Thesaurus. com | http://thesaurus.com |
| Visual Thesaurus | http://www.visualthesaurus.com |
| Book Builder | http://bookbuilder.cast.org |
| Interactives | http://www.learner.org/interactives/story/ |
| **Notes:** | |
| **Options that clarify syntax and structure** Example: Highlighting transition words to make transitions explicit, providing simpler alternatives. | |
| Visuwords | http://www.visuwords.com |
| Simple English Wikipedia | http://simple.wikipedia.org/wiki/Simple_English_Wikipedia |
| Shahi | http://blachan.com/shahi/ |
| **Notes:** | |
| **Options for decoding text or mathematical notation** Example: Text-to-speech support. | |
| WordTalk | http://www.wordtalk.org.uk/Home/ |
| CLiCk Speak | http://clickspeak.clcworld.net |
| Voki | http://www.voki.com |
| Starfall | http://www.starfall.com |
| Mathematics Glossary | http://www.ronblond.com/MathGlossary/ |
| vozMe | vozme.com |

| Provide Options for Language and Symbols | |
|---|---|
| Rewordify | rewordify.com |
| **Notes:** | |
| **Options that promote understanding across languages** Example: Providing key vocabulary in several languages; online translation tools. | |
| Lingro | http://lingro.com |
| Babel Fish | http://www.bing.com/translator/ |
| Word2Word | http://www.word2word.com |
| **Notes:** | |
| **Options that illustrate through multi media** Example: Using illustrations, diagrams, charts to help illustrate concepts. | |
| Animoto | http://animoto.com |
| Illuminations for Math | http://illuminations.nctm.org |
| MathTools | http://mathforum.org/mathtools/ |
| AAA Math | http://www.aaamath.com |
| Tagxedo | http://www.tagxedo.com |
| 60 second recap | 60secondrecap.com |
| EdHeads | http://www.edheads.org |
| **Notes:** | |

| Provide Options for Comprehension | |
|---|---|
| **Options that provide or activate background knowledge** Example: Advance organizers such as charts; poster method. | |
| Time Rime | http://timerime.com |
| Howstuffworks | http://www.howstuffworks.com |
| Digging for Answers | http://smithsonianeducation.org/idealabs/digging_for_answers/index.html |

| Provide Options for Comprehension | |
|---|---|
| Windows to the Universe | http://www.windows2universe.org/windows.html |
| Educlipper | https://educlipper.net |
| InstaGrok | http://www.instagrok.com |
| TagGalaxy | http://taggalaxy.de/ |
| Incite! Learning Series | http://donjohnston.com/incite/ |
| Webspiration | http://www.inspiration.com/WebspirationClassroom |
| Kids' Zone Create A Graph | http://nces.ed.gov/nceskids/createagraph/default.aspx?ID |
| Education Place Graphic Organizers | http://www.eduplace.com/graphicorganizer/ |
| Periodic Table of Visualizations | http://www.visual-literacy.org/periodic_table/periodic_table.html |
| **Notes:** | |
| **Options that highlight critical features, big ideas, and relationships** Example: Cueing or highlighting important features to make them explicit, using graphic organizers. | |
| Math Manipulative's | http://nlvm.usu.edu/en/nav/vlibrary.html |
| Education Oasis | http://www.educationoasis.com |
| Readwithme | http://readwithme.cast.org |
| Splashtop Whiteboard | http://www.splashtop.com/whiteboard |
| Doceri | http://doceri.com/ |
| Resources for Teaching Math | http://illuminations.nctm.org/ |
| Interactivate | http://shodor.org/interactivate/ |
| Read:OutLoud | http://donjohnston.com/readoutloud/ |
| **Notes:** | |
| **Options that guide information processing** Example: Breaking a task down into smaller, sequential steps. | |
| Read with Me eBooks | http://readwithme.cast.org |

| Provide Options for Comprehension | |
|---|---|
| Intel Online Thinking Tool | http://www.intel.com/content/www/us/en/education/k12/teachers.html |
| Webspiration | http://www.mywebspiration.com |
| UDL Editions | http://udleditions.cast.org |
| Khanacademy | https://www.khanacademy.org/ |
| TenMarks | http://tenmarks.com |
| **Notes:** | |
| **Options that support memory and transfer** Example: Checklists, graphic organizers, concepts maps, linking to previous knowledge. | |
| Logotron | http://www.r-e-m.co.uk/logo/?comp=twp&html=gallery.html |
| Sheppard Software | http://www.sheppardsoftware.com/Geography.htm |
| Quizlet | http://quizlet.com |
| Thinglink | http://www.thinglink.com/action/store/education |
| SOLO | http://donjohnston.com/solo/ |
| StudyStack | http://www.studystack.com |
| Flipboard | https://flipboard.com |
| Kahoot | https://getkahoot.com |

| Provide Options for Perception | |
|---|---|
| **Options that customize the display of information** Example: Changing text and background color, font, and font size, sound volume, speed, to suit the user's needs. | |
| Accessibar | http://accessibar.mozdev.org |
| Readability | http://www.readability.com |
| Safari Reader | http://www.apple.com/accessibility/macosx/vision.html |
| Google Docs | http://accessibility.psu.edu/googledocs |
| Open Office | http://webaim.org/techniques/ooo/ |

| Provide Options for Perception | |
|---|---|
| Microsoft Office Word | http://www.microsoft.com/enable/products/office2010/default.aspx |
| Read&Write Gold | http://www.texthelp.com/North-America/Our-products/Readwrite/Features-PC |
| Read OutLoud | http://www.donjohnston.com/products/read_outloud/index.html |
| Smartboard | http://smarttech.com/Solutions/Education+Solutions/SMART+solutions+for+accessibility |
| UDL Exchange | http://udlexchange.cast.org/home |
| Read:OutLoud | http://donjohnston.com/readoutloud/ |
| **Notes:** | |
| **Options that provide alternatives for auditory information** Example: Using visuals, providing closed-captioning or a text copy of the same information. | |
| Signed Stories | http://www.signedstories.com |
| Creative Commons | http://creativecommons.org |
| Flickr | http://www.flickr.com |
| Pics4Learning | http://www.pics4learning.com |
| NOAA Photo Library | http://www.photolib.noaa.gov |
| USFWS National Digital Library | http://digitalmedia.fws.gov/cdm/ |
| Everystockphoto | http://www.everystockphoto.com |
| Morgue File | http://morguefile.com |
| Stock.XCHNG | http://www.sxc.hu |
| BrainPOP | http://www.brainpop.com |
| Teacher Tube | http://teachertube.com |
| Howstuffworks | http://www.howstuffworks.com |
| GreenEnergyTv | http://www.greenenergytv.com |
| National Geographic Video | http://video.nationalgeographic.com/video/ |

| Provide Options for Perception | |
|---|---|
| History Channel Video/Audio | http://www.history.com/videos |
| Infogram | https://infogr.am |
| Prezi | http://prezi.com |
| Easelly | http://www.easel.ly |
| **Notes:** | |
| | |
| **0ptions that provide alternatives for visual information** Example: Providing a text or auditory version of the same information. | |
| Vocaroo | http://vocaroo.com |
| Audacity | http://audacity.sourceforge.net |
| QuickTime | http://www.apple.com/quicktime/ |
| Snap & Read | http://donjohnston.com/snap-read/ |
| Nearpod | https://nearpod.com |
| **Notes:** | |

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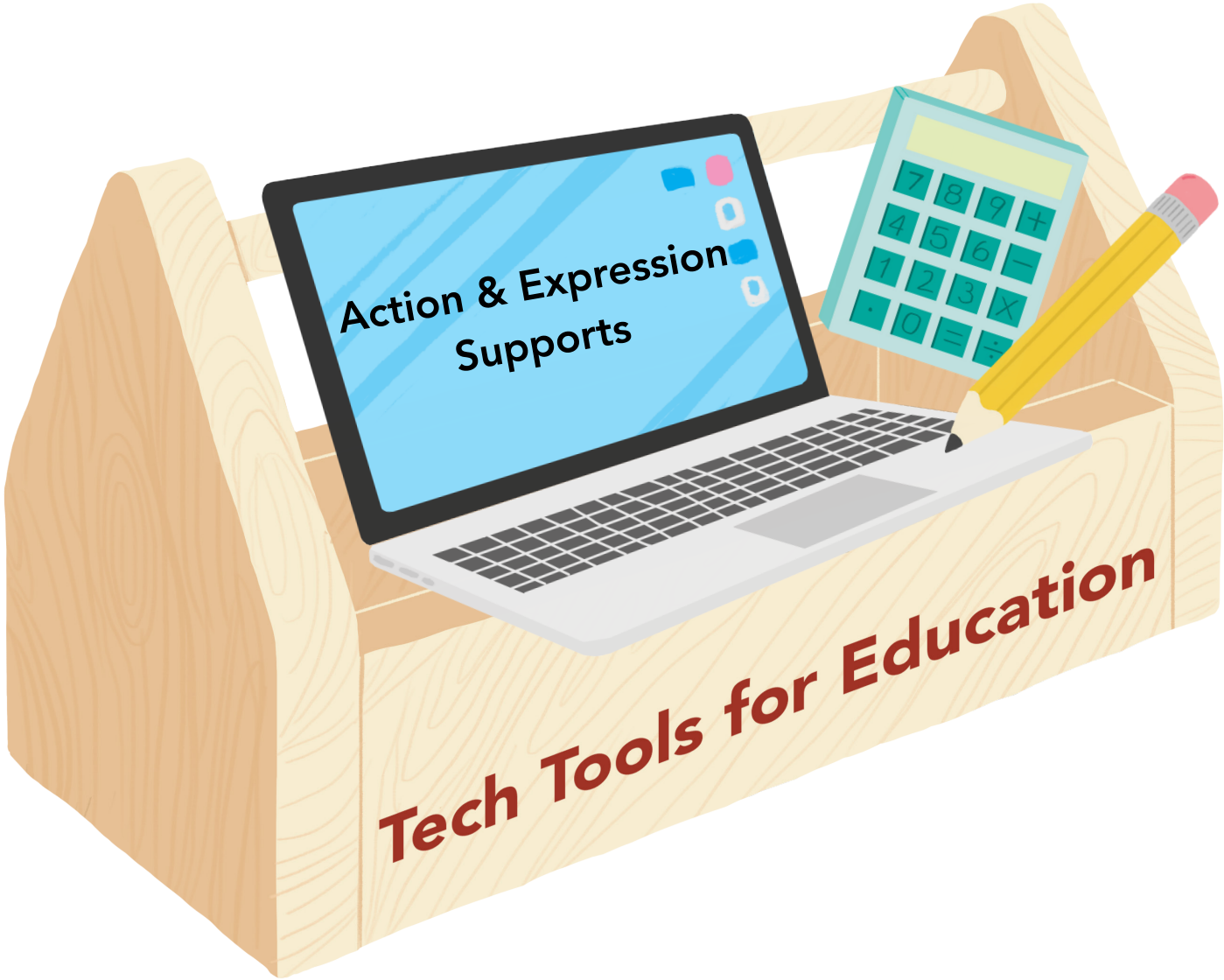


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| Provide Options for Executive Functions | |
|---|---|
| **Options that guide effective goal-setting** Examples: prompts, guides, checklists for goal-setting | |
| Think Tank | http://thinktank.4teachers.org |
| Goal Setting Exploring Language | http://www.learnalberta.ca/content/elsel/html/index.html |
| Worksheetplace Setting Goals | http://worksheetplace.com |
| **Notes:** | |
| **Options that support planning and strategy development** Examples: mentors that model think-alouds, scaffolds that set up priorities, sequences, timelines | |
| ReadWriteThink | http://www.readwritethink.org/classroom-resources/student-interactives/ |
| Webspiration | http://www.mywebspiration.com |
| bubbl.us | https://bubbl.us |
| MindMeister | http://www.mindmeister.com |
| Tiki-Toki | http://www.tiki-toki.com |
| **Notes:** | |
| **Options that facilitate managing information and resources** Examples: graphic organizer and templates for taking notes, checklists and guides | |
| NoteStar | http://notestar.4teachers.org |
| Strategy Coach | http://www.strategytools.org |
| XMind | http://www.xmind.net |
| Graphic Organizers | http://www.educationoasis.com/curriculum/graphic_organizers.htm |
| RubiStar | http://rubistar.4teachers.org/index.php |
| Livebinders | http://www.livebinders.com |
| DraftBuilder | http://donjohnston.com/draftbuilder/ |

| Provide Options for Executive Functions | |
|---|---|
| **Notes:** | |
| **Options that enhance capacity for monitoring progress** Examples: guided questions for self-monitoring, before after charts showing progress | |
| Create A Graph Classic | http://nces.ed.gov/nceskids/createAgraph/default.aspx |
| K-W-L Chart ReadWriteThink | http://www.readwritethink.org/classroom-resources/printouts/chart-a-30226.html |
| Infuselearning | http://www.infuselearning.com |
| **Notes:** | |

| Provide Options for Physical Action | |
|---|---|
| **Options in the mode of physical action** Examples: alternatives to pen and pencil or mouse | |
| Froguts | http://www.froguts.com |
| The Arts Zone | http://www.nga.gov/kids/zone/zone.htm |
| Shark Tracker | http://sharks-ocearch.verite.com |
| Tech Matrix | http://techmatrix.org/ |
| Accessible Instructional Materials (AIM) | http://aim.cast.org |
| **Notes:** | |
| **Options in the means of navigation** Examples: joystick, switches, scanning, hand, voice | |
| Science Close Up | http://www.harcourtschool.com/menus/science/up_close_index.html |
| Camera Mouse | http://www.cameramouse.org |
| CLiCk, Speak TTS | http://clickspeak.clcworld.net |
| Natural Reader TTS | http://www.naturalreaders.com |
| WordTalk for Windows TTS | http://www.wordtalk.org.uk/Home/ |
| Balabolka TTS | http://www.cross-plus-a.com/balabolka.htm |

| Provide Options for Physical Action | |
|---|---|
| Microsoft Accessibility Options | http://www.microsoft.com/enable/training/windowsxp/opsmobility.aspx |
| Macintosh Accessibility Options | http://www.apple.com/accessibility/ |
| No-Keys Virtual Keyboard | http://www.leithauserresearch.com/nokeys.html |
| **Notes:** | |
| **Options for accessing tools and assistive technologies** Examples: keyboard commands, customized overlays or keyboards | |
| Tar Heel Reader | http://tarheelreader.org |
| Free Virtual Keyboards PC | http://freevirtualkeyboard.com |
| Click-N-Type | http://cnt.lakefolks.com |
| **Notes:** | |

| Provide Options for Expression and Communication | |
|---|---|
| **Options in the media for communication** Examples: writing, speech, multimedia, models, manipulatives | |
| PIC LITS | http://www.piclits.com/compose_dragdrop.aspx |
| Voice Thread | http://voicethread.com |
| KerPoof | http://www.kerpoof.com/teach |
| Animoto | http://animoto.com |
| Wevideo | https://www.wevideo.com/overview |
| Make Beliefs Comix | http://www.makebeliefscomix.com |
| Wideo | http://wideo.co |
| Goanimate | http://goanimate.com/?utm_source=embed |
| ClassTools | http://www.classtools.net |
| Glogster | www.edu.glogster.com |
| TalkTyper | http://talktyper.com |

| Provide Options for Expression and Communication | |
|---|---|
| WordTalk | http://www.wordtalk.org.uk/Home/ |
| Haiku Deck | http://www.haikudeck.com |
| Prezi | http://prezi.com |
| Educreation | http://www.educreations.com |
| Storybird | http://storybird.com |
| Storybook Creation Webtools | http://teacherrebootcamp.com/2013/02/18/20-storybook-creation-tools-and-apps/ |
| Recap | https://recap.zendesk.com/hc/en-us |
| **Notes:** | |
| **Options in the tools for composition and problem solving** Examples: spellcheckers, word prediction, calculators, sentence starters, mind-mapping tools | |
| Webspiration | http://www.mywebspiration.com/index.php |
| Ghotit | http://www.ghotit.com |
| Capzles | http://www.capzles.com |
| Dipity | http://www.dipity.com |
| Ginger | http://www.gingersoftware.com |
| eType | http://www.etype.com |
| CoWriter | http://donjohnston.com/cowriter/ |
| **Notes:** | |
| **Options in the scaffolds for practice and performance** Examples: multiple scaffolds, gradual release, differentiated mentors, models, feedback | |
| Nano Wrimo's Young Writers Program | http://ywp.nanowrimo.org |
| UDL Editions | http://udleditions.cast.org |
| Strategy Tutor | http://cst.cast.org |

| Provide Options for Expression and Communication | |
|---|---|
| Clicker6 | http://www.cricksoft.com/us/products/tools/clicker/home.aspx |
| **Notes:** | |

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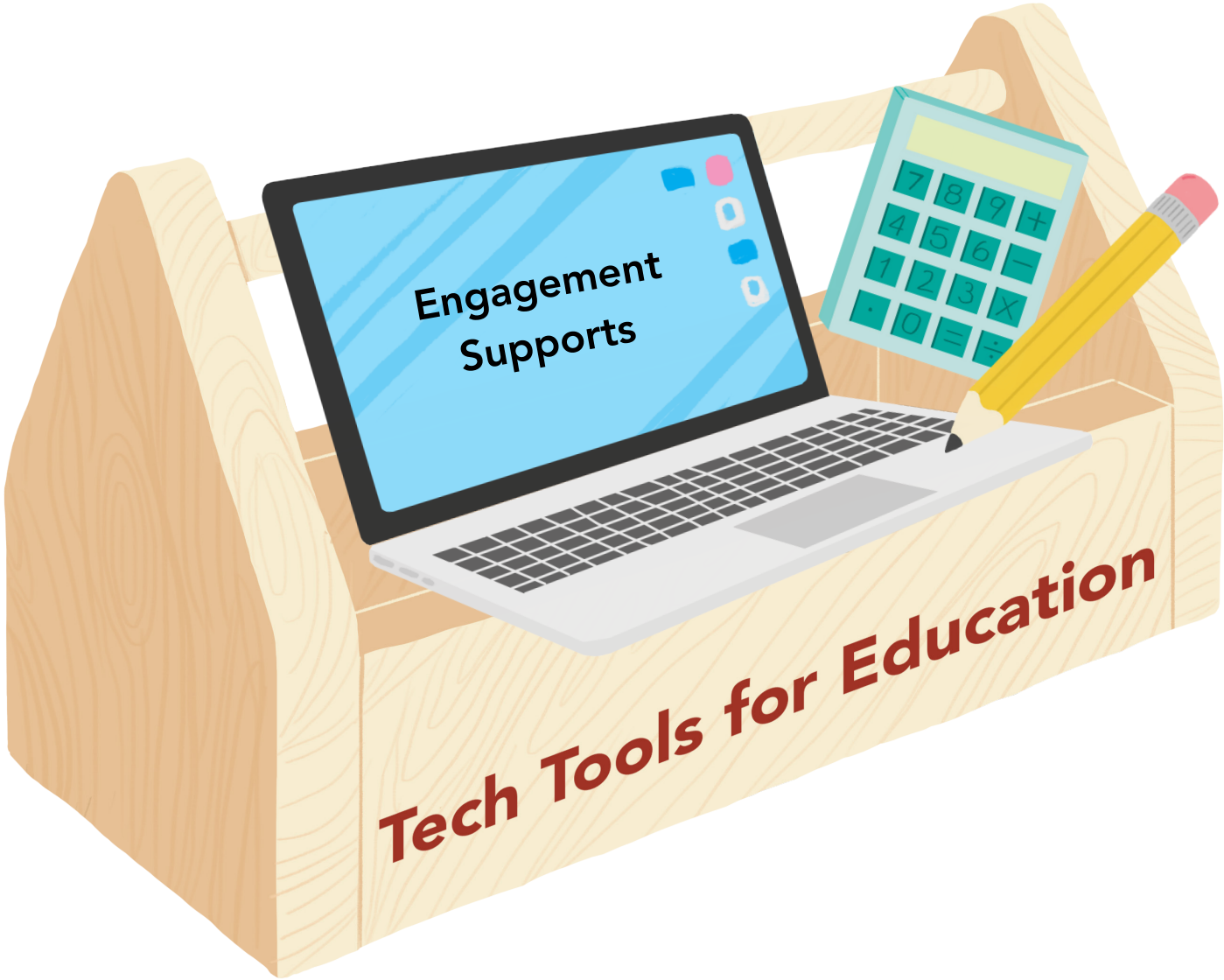


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| Provide Options for Recruiting Interest | |
|---|---|
| **Optimize individual choice and autonomy** Examples: Provide learners with as much discretion and autonomy as possible by providing choices in such things as: the level of perceived challenge, type of rewards or recognition available; context or content used for practicing and assessing skills; tools used for information gathering or production; color, design, or graphics of layouts; and the sequence or timing for completion of tasks. | |
| The following websites offer students choice in regards to topic, layout, customization, and choice to encourage engagement and interest in subject matter. | |
| Industrial Revolution Tic Tac Toe | https://vimeo.com |
| RSS feeds | http://www.weblogg-ed.com/wp-content/uploads/2006/05/RSSFAQ4.pdf |
| Crayon | http://www.crayon.net |
| Book Adventure | http://www.bookadventure.com |
| Kids know it | http://www.kidsknowit.com |
| Visual .ly | http://visual.ly |
| **Notes:** | |
| **Optimize relevance, value and authenticity** Examples: Vary activities and sources of information so that they can be: personalized to learners' lives; culturally and socially relevant; age and ability appropriate. | |
| The following websites offer students choice in regards to interaction, fun, relevancy, authenticity, value and real purposes for learning to encourage engagement and interest in subject matter. | |
| NBC Learn | http://www.nbclearn.com/olympics |
| Expedition Exploration with Field Museum | http://fieldmuseum.org |
| Students Learn to Make a Difference | http://www.edutopia.org/ascend-school-expeditionary-learning-video |
| NG WildCam | http://video.nationalgeographic.com |
| Apply Math Skills to Real World Problems | http://www.edutopia.org/mountlake-terrace-geometry-real-world-video |
| Archive | http://archive.org/projects/ |
| TED ed Lessons Worth Sharing | http://ed.ted.com |
| An Intro Integrated Social Studies | http://www.edutopia.org/integrated-studies-introduction-video |

| Provide Options for Recruiting Interest | |
|---|---|
| The USFIRST | http://www.usfirst.org/?id=17069 |
| Word Generation | http://wg.serpmedia.org |
| Scoop It | http://www.scoop.it |
| Storify | http://storify.com |
| Klikaklu | http://www.klikaklu.com |
| Board Game Makers | http://toolsforeducators.com/boardgames/ |
| **Notes:** | |
| **Minimize threats and distractions** Examples: Vary the level of novelty or risk (charts, calendars, schedules, visible timers, cues that can increase the predictability of daily activities and transitions); Creation of class routines (alerts that can help learners anticipate and prepare for changes in activities); Vary the level of sensory stimulation (variation in background noise, visual stimulation); Variation in pace of work (length of work sessions, availability of breaks or timing or sequence of activities); and involve all students in whole class discussions. | |
| The following websites offer strategies that are beneficial not only to students with sensory issues, but also to ALL children, which include information on bullying, classroom distraction, and sensory integration in the classroom. | |
| PBIS | http://www.pbis.org |
| AIM | http://www.autisminternetmodules.org |
| Clipster | http://www.clipster-video.com |
| **Notes:** | |

| Provide Options for Sustaining Effort and Persistence | |
|---|---|
| **Heighten salience of goals and objectives** Examples: Prompt or require learners to explicitly formulate or restate goal; display the goal in multiple ways; and demonstrate the use of hand-held or computer-based scheduling tools. | |
| The following websites offer ideas and tools for creating rubrics that will make goals and objectives meaningful to students. | |
| RUBISTAR | http://rubistar.4teachers.org |
| Technology's Rubric Maker | http://www.teach-nology.com/web_tools/rubrics/ |
| How Do Rubrics Help | http://www.edutopia.org/assessment-guide-rubrics |

| Provide Options for Sustaining Effort and Persistence | |
|---|---|
| Gap Minder | http://www.gapminder.org |
| **Notes:** | |
| **Vary demands and resources to optimize challenges** Examples: Differentiate the degree of difficulty within which core activities can be completed; provide alternatives in the permissible tools/scaffolds; and vary the degrees of freedom for acceptable performance. | |
| The following websites showcase different levels of learning scaffolds that offer students to choose the level that is best for them. | |
| Exploring Language | http://www.learnalberta.ca/content/elsel/html/index.html |
| Windows to the Universe | http://www.windows2universe.org/windows.html |
| UDL Editions by CAST | http://udleditions.cast.org |
| Classtools | http://www.classtools.net |
| Fotobabble | http://www.fotobabble.com |
| **Notes:** | |
| **Foster collaboration and community** Examples: Create cooperative learning groups with clear goals, roles, and responsibilities; provide prompts that guide learners in when and how to ask peers and/or teachers for help; encourage opportunities for peer interactions and supports; develop communities of learners engaged in common interests. | |
| The following website tools foster collaboration and communication among fellow colleagues and students in the classroom. | |
| How to Teach Math as a Social Activity | http://www.edutopia.org/math-social-activity-cooperative-learning-video |
| Become A Classroom Problem Solver | http://www.edutopia.org/conflict-resolution-peace-helpers-video |
| Student Mentors Teach Game Design | http://www.edutopia.org/digital-generation-game-design-video |
| Skype | http://www.skype.com/en/ |
| CoSketch | http://cosketch.com |
| Glogster | http://edu.glogster.com |
| XMind | http://www.xmind.net |
| StudyBlue | http://www.studyblue.com |

| Provide Options for Sustaining Effort and Persistence | |
|---|---|
| Illuminations | http://illuminations.nctm.org |
| **Notes:** | |
| **Increase mastery-oriented feedback** Examples: Provide feedback that is frequent, timely, and specific; it should be informative rather than comparative or competitive. | |
| The following websites provide information on informative feedback to help students with assessment and direction. | |
| Develop Student Motivation and Success | http://www.educationworld.com/a_issues/chat/chat010.shtml |
| Socrative | http://socrative.com |
| InfuseLearning | http://www.infuselearning.com |
| **Notes:** | |

| Provide Options for Self-Regulation | |
|---|---|
| **Promote expectations and beliefs that optimize motivation** Examples: Provide prompts, reminders, guides, rubrics and checklists that focus on: self-regulatory goals like reducing the frequency of aggression; and elevate the frequency of self-reflection and identification of personal goals. | |
| The following websites feature stories of how goals can help students be self-regulated learners. | |
| Faces of Learning | http://www.facesoflearning.net |
| Help Students Set Goals the Smart Way | http://www.teachersatrisk.com/2009/02/08/helping-my-students-set-goals-the-smart-way/ |
| First Author | http://donjohnston.com/portfolio-item/firstauthor/ |
| **Notes:** | |
| **Facilitate personal coping skills and strategies** Examples: Provide differentiated models, scaffolds and feedback for: managing frustration; developing internal controls and coping skills; and use real life situations to demonstrate coping skills. | |
| This websites are loaded with tips on how to scaffold students' coping skills and strategies. | |
| Students Learn Conflict Resolution | http://www.edutopia.org/forum-conflict-resolution-video |
| Coping Skills for Kids: Brain Works Project | http://www.copingskills4kids.net |

| Provide Options for Self-Regulation | |
|---|---|
| Use Essays To Build Self-Esteem | http://www.educationworld.com/a_lesson/lesson/lesson030.shtml |
| Grammar Base | http://www.grammarbase.com |
| **Notes:** | |
| **Develop self-assessment and reflection** Examples: Offer devices, aids, or charts to assist individuals in learning to collect, chart and display data from their own behavior for the purpose of monitoring changes in those behaviors; use activities that include a means by which learners get feedback and have access to alternative scaffolds (charts, templates, feedback displays) that support understanding progress in a manner that is understandable and timely. | |
| This websites show how to help students to become self-advocates - an effective way to develop their self-assessment skills. | |
| Reflection Strategies Make Learning Stick | http://www.edutopia.org/student-reflection-blogs-journals-technology |
| Virtual Writing Tutor | http://www.virtualwritingtutor.com/correction.php?action=proc |
| Weebly | http://www.weebly.com |
| Kidblog | http://kidblog.org/home/ |
| Class Dojo | http://www.classdojo.com |
| **Notes:** | |

# Apps for Students with Literacy Difficulties