



AI Toolkit for Teacher Librarians

This toolkit, created by California School Library Association and International Association of School Librarianship, is an ongoing collection of free resources for teacher librarians to use as part of their library program and to inform their own professional growth. Most resources are comprehensive or collections rather than single lesson plans, for instance.

A shorted link to this toolkit is <http://tinyurl.com/TLAIToolkit>

Overview and General Educational Guidance

- <https://tech.ed.gov/ai/> U.S. Department of Education Office of Educational Technology on AI
- <https://www2.ed.gov/documents/ai-report/ai-report.pdf> U.S. Department of Education AI report
- <https://unesdoc.unesco.org/ark:/48223/pf0000386693> UNESCO guidance for generative AI in education and research
- https://go.ncdpi.gov/AI_Guidelines North Carolina generative AI implementation recommendations and considerations for PK-13 public schools
- <https://ospi.k12.wa.us/student-success/resources-subject-area> Washington state human-centered AI guidance for K-12 public schools
- <https://www.cde.ca.gov/ci/pl/ai/california.asp> California Department of Education Information regarding the role of artificial intelligence (AI) in California K-12 education; includes an AI resource kit (largely based on TeachAI)
- <https://caeducatorstogether.org/groups/jm45qd3n/ai4ca-artificial-intelligence-for-california> California educational resources about AI (requires registration)
- <https://www.teachai.org/toolkit> TeachAI AI guidance for school toolkit; lots of good tips for schools
- <https://ai4k12.org/> National guidelines for K-12 AI education and resources

Repositories and Bibliographies on AI in Education

- <https://library.fiu.edu/ai> extensive list of resources on artificial intelligence, ChatGPT, writing with AI assistance, AI academic productivity tools, plagiarism, prompt engineering, GPT misinformation and hallucinations, AI image tools, AI literacy, and discussions related to AI ethics
- <https://guides.masslibsystem.org/ai/schools> Massachusetts AI LibGuide

- <https://iste.org/ai> ISTE resources for AI in education
- <https://www.smcoe.org/for-schools/district-instructional-services/gen-ai.html> San Mateo County Office of Education GenAI resources
- <https://tinyurl.com/LibrarianAIresources> Special Library Association list of AI resources for librarians
- <https://elink.io/p/ai-chatgpt-904c000> Good resources about AI, not just for librarians
- bit.ly/ai-in-ed-resource AI in education resource directory
- <https://aieducator.tools/> and <https://aieducatalog.cset.tech/>
- <https://www.controlaltachieve.com/2024/02/teach-students-ai.html>
- <https://tinyurl.com/aiCAPSPD> Hall Davidson's list of Generative AI resources
- <https://journal.canadianschoollibraries.ca/ai-in-education/> Relevant books about AI in education
- <https://guides.lib.purdue.edu/c.php?g=1371380&p=10135071> Purdue University AI LibGuide, including AI in K12

Librarians' Roles in AI

- <https://www.ifla.org/g/ai/generative-ai/>
- <https://open.umn.edu/opentextbooks/textbooks/1479> *Artificial intelligence and librarianship* (3rd ed.). M. Fricke
- https://dpi.wi.gov/sites/default/files/imce/imt/pdf/AI_Guidance_6-5-24.pdf Wisconsin AI guidance for enhancing K-12 and library education
- <https://guides.lib.unc.edu/generativeAI/ai-libraries> AI for media and journalism, focusing on libraries
- <https://www.slj.com/story/Librarians-Can-Play-a-Key-Role-Implementing-Artificial-Intelligence-in-Schools> article and <https://www.slj.com/story/an-ai-toolboxfor-librarians-artificial-intelligence>
- <https://www.linkedin.com/pulse/ai-education-opportunity-school-libraries-elizabeth-hutchinson/> article with some sources and her video <https://www.youtube.com/watch?v=QgTIM2bsTB0>
- <https://digitalcommons.fiu.edu/glworks/145/> ChatGPT is a Liar and other Lessons Learned from Information Literacy Instructors
- <https://www.youtube.com/watch?v=nnkqHXYszew> School libraries and AI
- <https://drive.google.com/file/d/1rqv4AeO7J090aFo2VhSnv5uKE1n3746w/view> PPT on teaching about AI (includes examples by topic)
- <https://www.slideshare.net/nickpoole/leading-responsible-ai-the-role-of-librarians-and-information-professionals> PPT by British librarians for librarians
- <https://elissamalespina.substack.com/> AI school librarians newsletter

Frameworks and Standards

General

- <https://unesdoc.unesco.org/ark:/48223/pf0000380602> UNESCO K-12 AI curricula
- <https://libraryready.ai/wp-content/uploads/2024/12/AI-Scope-and-Sequence.pdf> New York School Library System AI curriculum scope and sequence
- <https://er.educause.edu/articles/2024/6/a-framework-for-ai-literacy>
- <https://newsliit.org/educators/resources/6-things-to-know-about-ai/>
- https://www.ilogroup.com/wp-content/uploads/2024/03/Framework-for-Implementing-Artificial-Intelligence-AI-in-K-12-Education_v1.0.pdf
- <https://www.education.gov.au/schooling/resources/australian-framework-generative-artificial-intelligence-ai-schools>
- <https://www.media.mit.edu/projects/impact-ai-k-12/overview/> MIT Impact.AI framework
- <https://digitalpromise.org/initiative/artificial-intelligence-in-education/ai-literacy/>

How AI Works (including Industries)

- <https://www.khanacademy.org/computing/code-org/x06130d92:how-ai-works/x06130d92:what-is-ai/v/how-ai-works>
- <https://www.simplilearn.com/tutorials/artificial-intelligence-tutorial/what-is-artificial-intelligence#:~:text=Put%20simply%2C%20AI%20systems%20work,features%20in%20the%20analyzed%20data.>
- <https://kids.britannica.com/students/article/artificial-intelligence-AI/272968>
- <https://www.gptechblog.com/5-diagrams-to-help-you-understand-generative-ai/>
- <https://www.weka.io/learn/guide/ai-ml/what-is-ai/>
- <https://www.youtube.com/watch?v=R9OHn5ZF4Uo> How AIs, like ChatGPT, learn
- <https://www.youtube.com/watch?v=X-AWdfSFCHQ> How chatbots and large language models work (for middle and high school)

AI Impact on Society

- <https://www.youtube.com/watch?v=hJP5GqnTrNo> How AI could save (not destroy) education
- <https://www.niemanlab.org/2020/07/biased-algorithms-on-platforms-like-youtube-hurt-people-looking-for-information-on-health/>
- <https://www.youtube.com/watch?v=uXbi3JqZiGA> AI in everyday life: How AI impacts you (for middle and secondary school)
- <https://www.youtube.com/watch?v=2-PUjaqAXwM> Advantages and disadvantages of AI (for middle and secondary school)
- <https://www.youtube.com/watch?v=ttlOdAdQaUE> What is artificial intelligence (for K-6)

Consuming AI (e.g., discernment)

- **AI Text Detectors:** Try [GPTZeroLinks to an external site.](#) or [DetectGPTLinks to an external site.](#)
- **AI Image Detectors:** Try [Maybe AI Image DetectorLinks to an external site.](#), [Optic AI or Not DetectorLinks to an external site.](#) or [Illuminary's AI Image DetectorLinks to an external site.](#)
- https://docs.google.com/presentation/d/1ADoqCSeBFaspv0qqiHqQmsdwazdqLjpASpJTutgmcNU/edit#slide=id.g1cc76543f64_0_246 AI text detectors
- <https://www.cnn.com/interactive/2023/07/business/detect-ai-text-human-writing/> How to tell when you're reading something written by AI (can be used as a warm-up exercise)
- <https://www.techlearning.com/news/navigating-ai-biases-in-the-classroom>
- <https://elearn.eb.com/real-vs-ai-images/#:~:text=Students%20should%20look%20for%20unnatural,or%20unrealistic%20lighting%20and%20shadows>. Spotting AI: with images to test (good warm-up activity) and criteria for spotting AI images; further resources included

Using AI

- <https://www.edweek.org/technology/what-is-age-appropriate-use-of-ai-4-developmental-stages-to-know-about/2024/02>
- <https://www.aifire.co/p/top-ai-cheatsheets-2024>
- <https://www.k12promptguide.com/home> Includes an introduction, strategies and use cases
- <https://www.kubrio.com/articles/introduction-to-prompt-engineering-an-overview-for-kids> Includes activities; can be shared with parents

Ethics

- https://drive.google.com/drive/folders/1rL4dJ_nxM3V5wfRcgEsnapkpwsKQKS1b AI Ethics for K12 schools
- <https://www.whitehouse.gov/ostp/ai-bill-of-rights/> U.S. Whitehouse AI Bill of Rights
- <https://www.descript.com/blog/article/what-copyright-law-says-about-ai-generated-content>
- <https://youthmedia.kqed.org/gen-ai-guidelines>
- <https://apastyle.apa.org/blog/how-to-cite-chatgpt>
- [https://libguides.wintec.ac.nz/academic-integrity/using-ai-tools#:~:text=You%20may%20be%20required%20to,generative%20AI%20\(GenAI\)%20tools](https://libguides.wintec.ac.nz/academic-integrity/using-ai-tools#:~:text=You%20may%20be%20required%20to,generative%20AI%20(GenAI)%20tools) Academic integrity sources
- <https://library-guides.ucl.ac.uk/referencing-plagiarism/acknowledging-genAI>

AI Tools

- <https://www.scisdata.com/connections/issue-126/empowering-school-library-staff-to-navigate-the-ai-frontier/>
- https://www.aifire.co/p/top-ai-cheatsheets-2024?utm_source=www.aifire.co&utm_medium=newsletter&utm_campaign=ai-agents-beyond-rag#69-50-ai-tools-to-replace-hardwork
- <https://www.techlearning.com/how-to/ai-starter-kit-for-teachers> Linked description and use of tools by use
- <https://nesslabs.com/artificial-creativity> AI tools by objective
- <https://aieducator.tools/> Repository of AI tools and ways to use them
- <https://educraft.tech/best-100-ai-apps-for-teachers/> Popularity of AI tools by use
- <https://theresanaiforthat.com/>
- <https://www.intellum.com/resources/blog/16-ai-tools-for-education-content-creation>
- <https://ediscoverytoday.com/2023/07/21/120-mind-blowing-ai-tools-artificial-intelligence-trends/>

Productivity Ideas

- <https://liferarian.com/librarian-role/9-ways-to-use-ai-tools-to-enhance-your-professional-life-as-a-librarian-4325/>
- <https://www.aiforeducation.io/prompts/> GenAI chatbot prompt library for educators
- <https://www.disco.co/blog/how-ai-generated-learning-content-works-tools-examples-for-course-creators#:~:text=AI%2Dgenerated%20learning%20content%20uses,learner%20styles%20and%20knowledge%20levels.>
- <https://slidesgo.com/ai-presentations>
- <https://libguides.northwestern.edu/ai-tools-research/librarians>
- https://www.youtube.com/live/QWVtN8S8_I0?feature=share Create engaging lessons with ChatGPT: A guide

Curriculum, Teaching and Learning

Teaching and Learning

- <https://www.ed.gov/sites/ed/files/documents/ai-report/ai-report.pdf> U.S. Department of Education Office of Educational Technology *Artificial intelligence and the future of teaching and learning*
- <https://openai.com/index/teaching-with-ai/>
- <https://ascd.org/el/articles/using-ai-to-fuel-engagement-and-active-learning>

- <https://www.edweek.org/technology/what-is-age-appropriate-use-of-ai-4-developmental-stages-to-know-about/2024/02>
- <https://www.techlearning.com/news/5-things-ai-can-and-can-not-do-for-students>

Cross-grades

- <https://unesdoc.unesco.org/ark:/48223/pf0000380602> UNESCO K-12 AI curricula
- https://www.ed.gov/sites/ed/files/2023/12/S411C230070_Concord-Consortium-Inc-Narrative_Redacted_508_QC.pdf AI across the curriculum for virtual schools
- <https://www.cde.ca.gov/ci/pl/aiincalifornia.asp> California Department of Education Information regarding the role of artificial intelligence (AI) in California K-12 education, with ideas by grades and subject matter; includes an AI resource kit (largely based on TeachAI)
- <https://iste.org/ai> See the hands-on activities for different grade levels
- <https://www.aiforteachers.org/activities> lists activities about AI for different grade levels
- <https://www.aiforteachers.org/lesson-plans-2> AI lessons grouped by elementary, middle grades, and secondary school
- <https://www.ailliteracyday.org/curriculum-resources> AI activities clustered by time frame
- <https://media-and-learning.eu/type/news/101-creative-ideas-to-use-ai-in-education-a-crowdsourced-collection/>
- <https://www.edsurge.com/research/guides/ai-is-for-everyone-everywhere>
- <https://www.commonsense.org/education/lists/lessons-and-tools-for-teaching-about-artificial-intelligence>
- <https://www.magicschool.ai/ai-literacy>
- <https://www.flintk12.com/ai-literacy-for-students>
- <https://lokisloop.org/misinfoplaypack/> University of Washington Misinformation Play Pack

Elementary School

- <https://www.media.mit.edu/projects/primary-ai-ed/overview/>
- <https://www.hurix.com/why-and-what-to-teach-ai-curriculum-for-students/> targets K-5 students
- <https://richardccampbell.com/the-best-resources-for-teaching-artificial-intelligence-to-kids/>

Middle School

- <https://www.media.mit.edu/projects/ai-ethics-for-middle-school/overview/>
- <https://codehs.com/course/ms-intro-ai/overview> Introduction to AI for middle school
- <https://www.commonsense.org/education/collections/ai-literacy-lessons-for-grades-6-12>

- <https://link.springer.com/article/10.1007/s40593-022-00298-y> AI + ethics curricula for middle school youth; research article with links to projects; accompanies <https://raise.mit.edu/daily/>
- <https://www.sciencebuddies.org/projects-lessons-activities/artificial-intelligence/middle-school>

Secondary School

- <https://libguides.northwestern.edu/ai-tools-research/librarians>
- <https://craft.stanford.edu/> Free resources to teach secondary school students in all subject matters about AI
- <https://codehs.com/course/hs-intro-ai/overview> Introduction to AI for secondary school
- <https://codehs.com/course/hs-intro-ai/overview>
- <https://xqsuperschool.org/education-policy/using-generative-ai-in-high-school-classrooms/>
- <https://www.commonsense.org/education/collections/ai-literacy-lessons-for-grades-6-12>
- https://www.researchgate.net/publication/365253406_AI_Curriculum_for_European_High_Schools_An_Embedded_Intelligence_Approach
- <https://ocw.mit.edu/courses/res-mas-002-day-of-ai-spring-2022/>

Subject-Specific Resources

See <https://tinyurl.com/AITeacherToolkit>

Warm-Up Activities

- <https://teachingcommons.stanford.edu/teaching-guides/artificial-intelligence-teaching-guide/warming-ai> Stanford University warm-up activities about AI
- <https://hookedoninnovation.com/2023/11/07/12-ai-enhanced-icebreakers-to-motivate-learners/> 12 AI icebreakers
- https://www.verizon.com/learning/static/documents/standalone/lesson_1169/p_5302/Science%20%20AI%20Snapshots%20%20aiEDU.pdf AI snapshots
- <https://www.ailliteracyday.org/curriculum-resources> AI activities clustered by time frame
- <https://www.whichfaceisreal.com/>
- <https://elearn.eb.com/real-vs-ai-images/#:~:text=Students%20should%20look%20for%20unnatural,or%20unrealistic%20lighting%20and%20shadows>. Spotting AI: with images to test
- <https://medium.com/@socialcreature/ai-and-the-american-smile-76d23a0fbfaf> How AI misrepresents culture through a facial expression
- <https://roft.io/> Real or fake text game
- https://www.teachertoolsai.com/warm_up Generate AI warm-ups for subject matter

Professional Development

- <https://www.techlearning.com/news/10-free-ai-trainings-and-certifications-for-educators>
- <https://libraryready.ai/> New York PD for school libraries to lead AI adoption
- <https://www.nnlm.gov/guides/opencourse/generativeai> Generative AI for library services
- <https://www.aiforeducation.io/home/#ResourceCenterHPAnchor> and <https://www.aiforeducation.io/prompt-engineering-for-educators-webinar>
- <https://teach.kqed.org/p/genai> Public TV GenAI resources and PD for educators
- <https://elissamalespina.substack.com/> AI school librarians newsletter
- https://gptcentral.beehiiv.com/archive?_bhlid=94f1b8dc24407b372f5f9bd3fcb52018a8584eaa&utm_campaign=how-where-to-learn-ai-for-free&utm_medium=newsletter&utm_source=gptcentral.beehiiv.com a list of free AI courses
- See also <https://tinyurl.com/IASLAITeacherToolkit> section on professional development