



AI Education Across the Curriculum: Design and Pilot Study of a Cross-Disciplinary Module Set

Raspberry Pi Foundation Research Seminar
September 8, 2026

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- Digital learning environments
- AI, Math, and CS education
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- Ph.D. in Instructional Technology & STEM Education, University of Virginia



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AI Education Across the Curriculum

Integrating language-based AI across the curriculum to create diverse pathways to AI-rich careers



Artificial Intelligence Education for Virtual Schools

Developing AI literacy in middle school and high school students by integrating AI learning in math classes for virtual schools



Exploring Neural Pathways in Language-Based AI

Interactive visualizations of neural pathways for students to explore the interpretability of AI and human-machine collaboration



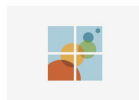
Mathematical Modeling with M2Studio

Cultivating mathematical modeling competencies among secondary students through dynamically linked representations

Concord Consortium concord.org

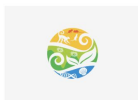
- Nonprofit R&D organization
- 30 years
- Advancing STEM education through technology
- STEM learning resources (learn.concord.org)

Featured Software



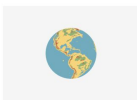
CODAP

The Common Online Data Analysis Platform is a dynamic data analysis environment for teaching data literacy.



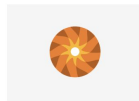
ConnectedBio

ConnectedBio is a multi-level simulation connecting cell biology, molecular genetics, inheritance and evolution.



Earth Rocks Map

This simplified geologic map shows the type of rocks and sediments on Earth's surface.



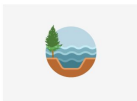
Energy2D

Energy2D is interactive, visual, simulation software that models conduction, convection, and radiation.



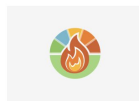
Energy3D

Energy3D software presents an easy-to-use 3D user interface for students to design and analyze model green buildings.



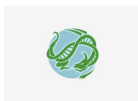
Flood Explorer

Flood Explorer simulates inland river flooding and allows students to investigate flood risks and impacts.



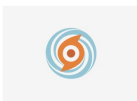
Forest Fire Explorer

Forest Fire Explorer simulates wildfire spread in the boreal ecosystem.



Geniventure

Geniventure engages students in exploring heredity, genetics, and proteins by breeding virtual dragons.



Hurricane Explorer

Hurricane Explorer simulates the environmental factors that affect the intensity and track of hurricanes.

The Concord Consortium
STEM Resource Finder

Collections About Help Register Log In

STEM resources, **free** for your classroom

▼ KEYWORDS
Type search term here Go

▼ SUBJECT
Chemistry
Earth & Space
Engineering
Life Science
Mathematics
Physics

▼ GRADE LEVEL
Elementary
Middle School
High School
Higher Education

Featured Collections
Collections include a related set of student and teacher resources. View All Collections

Geniventure Earth Science MothEd

Activities
Showing 6 of 387 Activities matching your search Sort by Alphabetical

3D Exploration of Bound Antibody and Antigen
9-12
Explore the role of shape in how antibodies and antigens interact. Preview Interactions

A Particle View of a Gas
7-8 9-12
All the "stuff" that is around us, we call matter. Matter is made of either atoms or molecules much too small to see. We give these basic building blocks the general name of particles. Particles exist in three basic states: solids, liquids, an... Preview

A Particle View of a Liquid
7-8 9-12
All the "stuff" that is around us, we call matter. Matter is made of either atoms or molecules much too small to see. We give these basic building blocks the general name of particles. Particles exist in three basic states: solids, liquids, an... Preview

**Why incorporate AI topics
into core subjects?**

StoryQII Project:

Integrating language-based AI across the curriculum to create diverse pathways to **AI-rich careers**

Roles and careers related to AI

- AI Innovators
- AI Developers
- Power AI users
- Responsible AI users
- Carefree AI users
- Unaware AI users

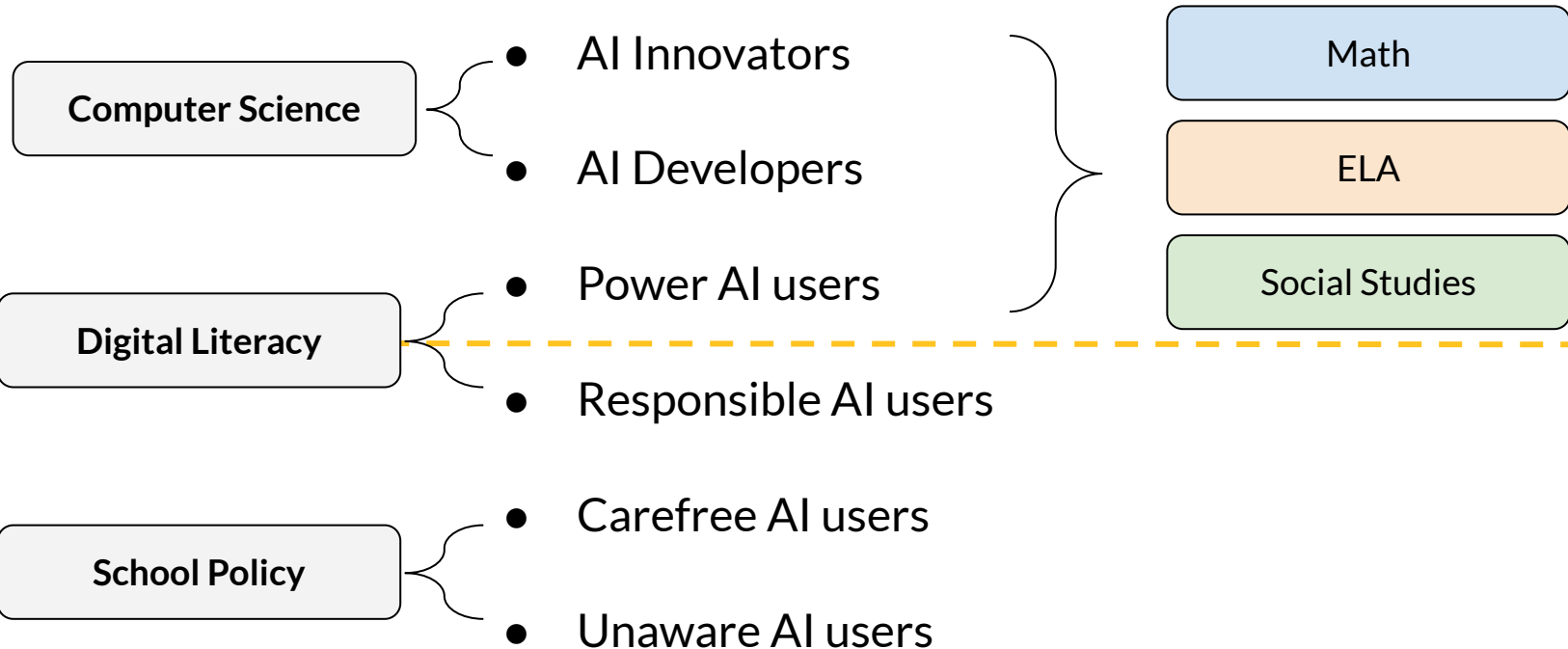
What roles are our students taking right now?

What roles can they take in the future?

How can we help?

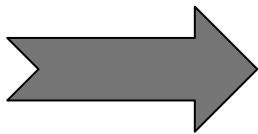
StoryQII Project:

Integrating language-based AI across the curriculum to create diverse pathways to AI-rich careers



Why Integrate AI Across the Core Curriculum?

- Uneven access to AI education
- Growth in AI electives, AI units in CS courses, and extracurricular programs
- Interdisciplinarity of AI → integrate into core subjects
 - ELA
 - Social studies
 - Math



**Equitable
AI education**

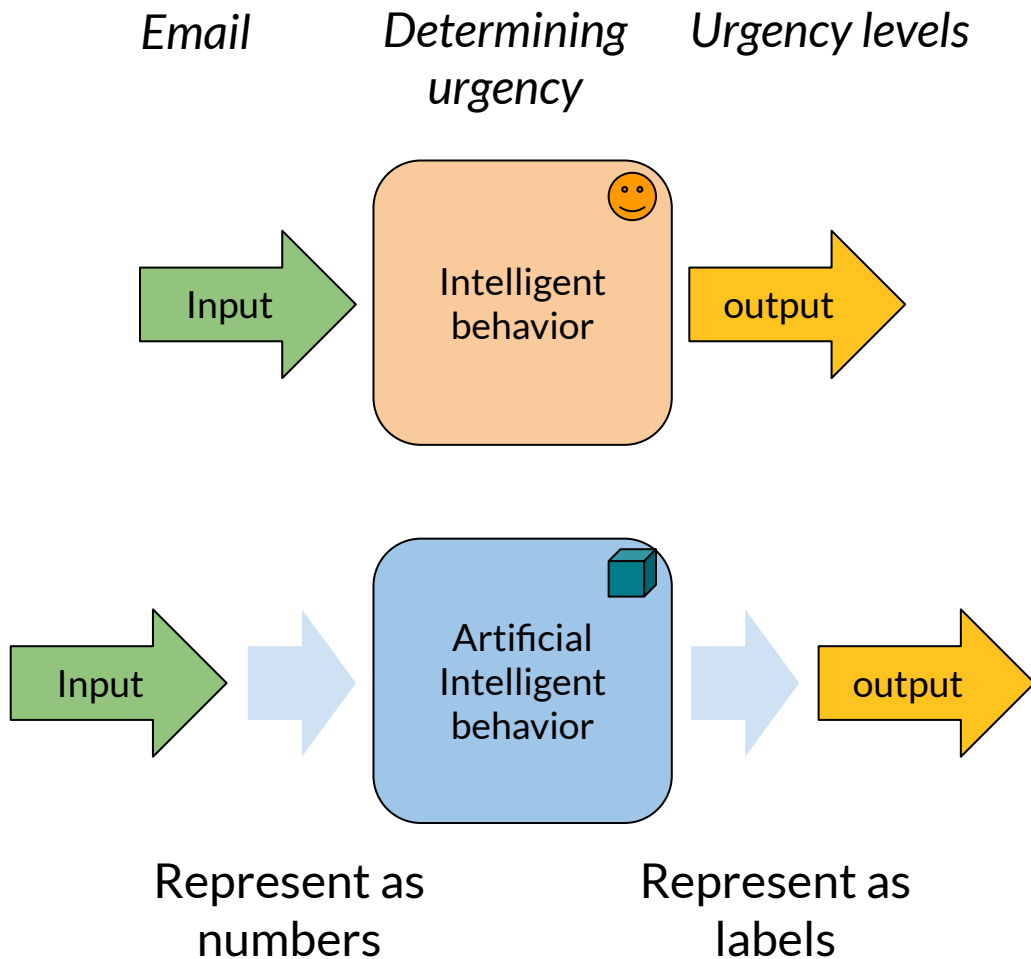
What is AI?

The capability of computer systems or algorithms to imitate intelligent human behavior

— Merriam Webster

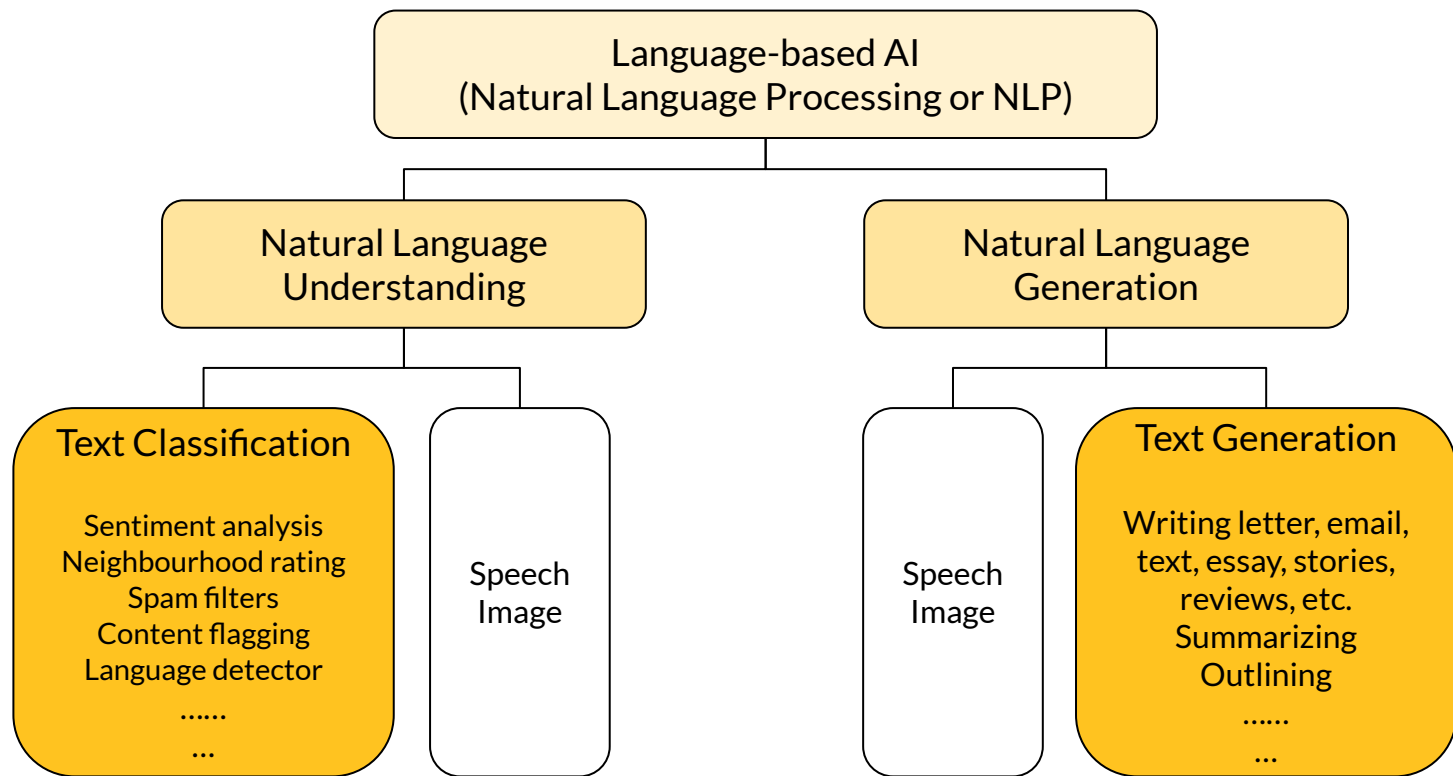
Require knowledge and skills:

- Intelligent behavior (.....)
- Machine (math, logic)
- Representation (math, logic)



StoryQII Project:

Integrating **language-based AI** across the curriculum to create diverse pathways to AI-rich careers



Position
students as
power users,
developers,
and
innovators

ELA Module: Text Classification

Students as **computational linguists**
How can AI be built to “understand” text? How to extract
the meanings of text for AI to learn?

ELA Module: Text Generation

Students as **AI-conscious readers and writers**
How does AI generate human-like text?
What are authorship and voice in the age of Gen AI?

History Module

Students as **AI-powered historians**
How can AI be used to augment historical inquiry?

Math Module

Students as **mathematical modelers**
How is knowledge represented?
How is learning made possible?

General AI Literacy

Students as **AI literate citizens** and **responsible AI users**

Design AI Applications

Students as **AI developers** designing solutions to
real-world problems



Text Classification: Exploring AI in ELA with StoryQ

K-6 7-8 9-12

Students unpack and build a machine learning model that can predict the sentiment in restaurant reviews. Students draw on their ELA skills to decide which features to include and make...

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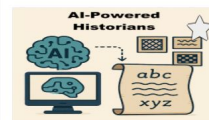


SY25-26: AI Text Generation for ELA

Community

Students explore their own decision-making process as writers as they learn the fundamentals of AI text generation. Students leverage their ELA skills, such as close reading,...

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SY25-26: AI-Powered Historians

9-12 Community

Students learn how to use and interpret an AI model to enhance document-based historical analysis. This module uses a dataset from mid-1900s America.

[ASSIGN OR SHARE](#)



SY25-26: Math & AI

7-8 9-12 Community

Students apply the math they know to design, build, test, and iteratively improve an AI model that can identify sentiment in customer reviews. Students learn to model language as they...

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SY25-26: Self-Paced Module: AI is Everywhere

9-12 Community

In this self-paced module, students choose AI models of interest to learn more about as they dig into how the world is changing as a result of AI.

[ASSIGN OR SHARE](#)



SY25-26: AI for the Real World

9-12 Community

Students apply their new knowledge of AI to help professionals improve their job performance and to solve any real-world problem of their choosing. This short activity can...

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A Whole-School Perspective on AI Learning

- Whole-school perspective
- A coordinated set of modules across disciplines
- Grounded in disciplinary learning goals
- Cohesive exploration of AI

Pedagogical Design

What do the modules look like?

Quick Tour

learn.concord.org/storyq

Ongoing Revisions

Public Release Date:
Early 2027

AI Education Across the Curriculum (StoryQ)

Artificial intelligence (AI) is reshaping society. While not every student needs to become an AI scientist or engineer, almost everyone will enter a workforce powered and transformed by AI technologies. Preparing youth to enter and engage with an AI-filled future is one of our most critical challenges. AI, however, is a highly interdisciplinary field, so AI education can happen in a variety of settings where the problems of interest call for AI solutions.



Unit Includes

- ✓ Teacher Edition
- ✓ Teacher Dashboard
- ✓ Pre & Post Assessments

The StoryQ projects aim to support high school students in developing knowledge in AI and interest in AI-rich careers by integrating foundational AI education into disciplinary studies. We have created several modules that address different aspects of AI and align to **ELA, math, and history** classes.

Log in with your teacher account to check out the teacher support materials, pre/post tests, and assign the lessons to your students. If you don't have a teacher account, click Register at the top-right corner to create one now.

Interested in a live demo or professional development opportunities? Please contact us (storyq@concord.org) to request a session.

Scroll
down

Modules



Text Classification: Exploring AI in ELA with StoryQ

K-6 7-8 9-12

Students unpack and build a machine learning model that can predict the sentiment in restaurant reviews. Students draw on their ELA skills to decide which features to include and make sense of model errors. This module comes with a detailed Teacher Guide!

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Preview

StoryQ



SY25-26: AI Text Generation for ELA

Community

Students explore their own decision-making process as writers as they learn the fundamentals of AI text generation. Students leverage their ELA skills, such as close reading, authorship, and grammar, as they learn how AI generates text.

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Preview

StoryQ



SY25-26: AI-Powered Historians

9-12 Community

Students learn how to use and interpret an AI model to enhance document-based historical analysis. This module uses a dataset from mid-1900s America.

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Preview

StoryQ

AI Education Across the Curriculum: Module Set

URL: learn.concord.org/storya

A set of free, weeklong modules for teachers to introduce AI topics in their G6-12 classrooms. Browser-based with special purpose learning tools.

Self-paced
introduction

ELA

Math

Social Studies

Self-paced
application



SY25-26: Self-Paced Module: AI is Everywhere

9-12 Community

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SY25-26: AI Text Generation for ELA

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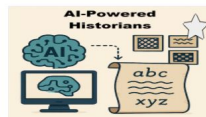


SY25-26: Math & AI

7-8 9-12 Community

Students apply the math they know to design, build, test, and iteratively improve an AI model that can identify sentiment in customer reviews. Students learn to model language as they...

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SY25-26: AI-Powered Historians

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ASSIGN OR SHARE



SY25-26: AI for the Real World

9-12 Community

Students apply their new knowledge of AI to help professionals improve their job performance and to solve any real-world problem of their choosing. This short activity can...

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Module 1: AI Is Everywhere — Building Foundational AI Literacy

- Self-paced, choice-based introductory module (~2 hours)
- Explores real-world AI applications
- Cross-disciplinary, not just computer science
- Focus on careers, text classification, NLG, and societal perspectives



SY25-26: Self-Paced Module: AI is Everywhere

9-12 Community

In this self-paced module, students choose AI models of interest to learn more about as they dig into how the world is changing as a result of AI.

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Automated Trucking



Note: To rewatch, begin at 1:24.

AI at the Port of Long Beach



Note: To rewatch, begin at 14:23.

Working with Robot Assistants



Note: To rewatch, begin at 21:40.

Pizza 2.0



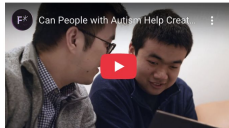
Note: To rewatch, begin at 27:30.

How Robots Could End Animal Captivity in Zoos and Marine Parks



Is Dolphin A Robot

Can People with Autism Help Create Next-Generation AI?

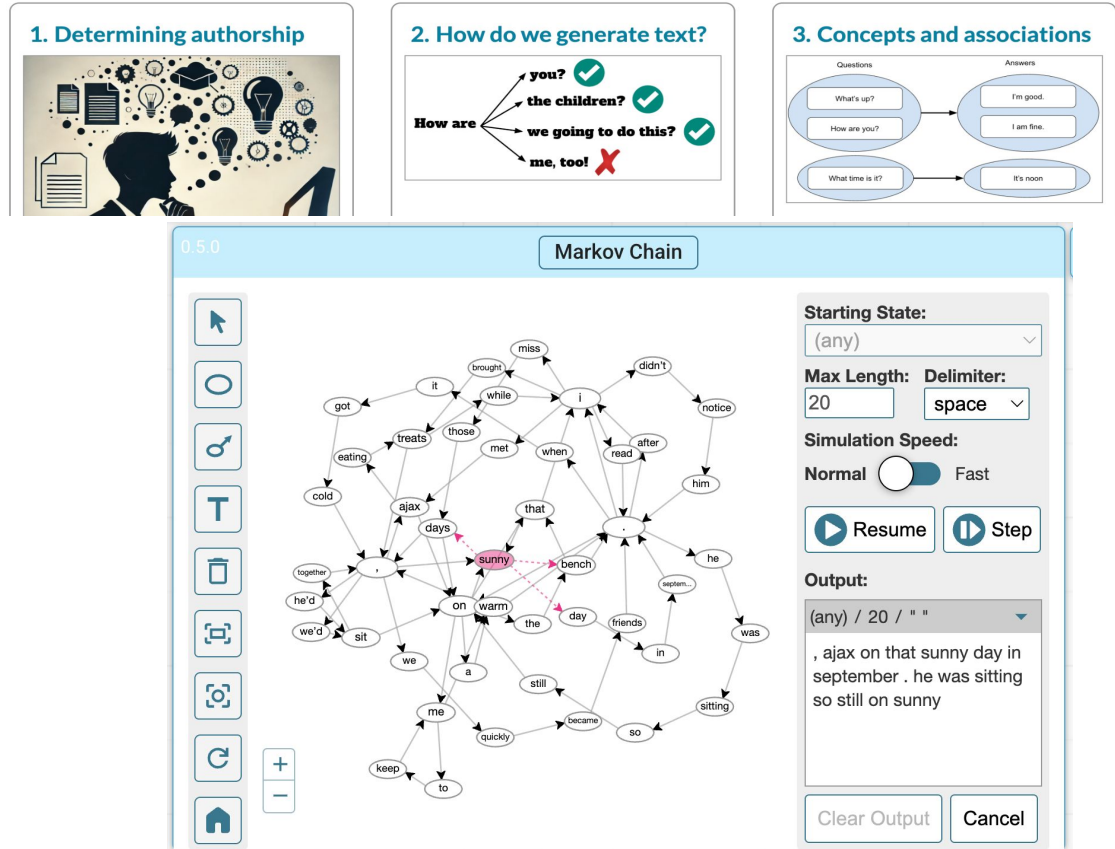


Can People with Autism Help Create



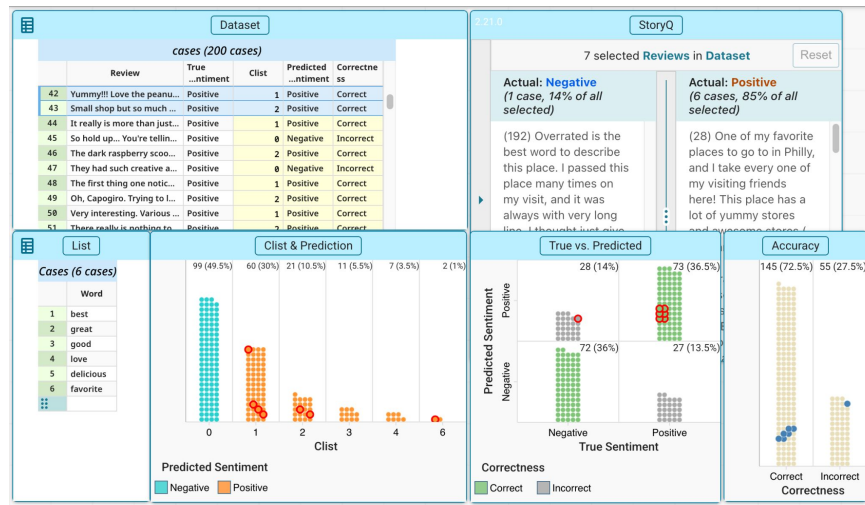
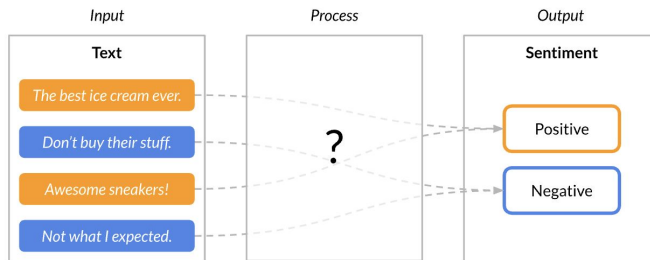
Module 2: AI Text Generation in English Language Arts

- Three-activity sequence (~220 minutes)
- Focus on authorship, creativity, and structure
- Human vs. AI writing comparisons
- Markov chains and embeddings as conceptual models



Module 3: Math & AI — Building Sentiment Analysis Models

- Five activities (~5 hours total)
- Text classification through sentiment analysis
- Core math ideas: features, weights, linear functions
- Model testing and interpretation using real-world data



Pilot Study Findings

Purposes

- Usability of the whole module set
- Test research instruments
- **Feasibility of full intervention implementation and research activities**
- Teacher professional learning experiences
- **Student learning experiences**

Study Context

- A urban, midsize STEM-focused high school in Northern California
- Predominantly minoritized and economically disadvantaged student population
- Three 11th-grade teachers: ELA, history, and math
 - One-day, in-person teacher workshop
 - One-on-one training sessions
- 20 eleventh Grade students
 - 13 male, 7 female
 - 17 Hispanic or Latinx, 1 Black/African, 1 Asian, 1 Middle Eastern/North African student
 - Plan after high school: 11 intended a 4-year college, 8 a 2-year college, 1 work, and 1 military
- Students experienced all three modules
 - English teacher and history teacher teaching the same class
 - Math teacher co-led advisory period with compromised implementation

Focal Data

- Pre-survey data
- Interviews with two student volunteers
- Implementation records and teacher meeting notes

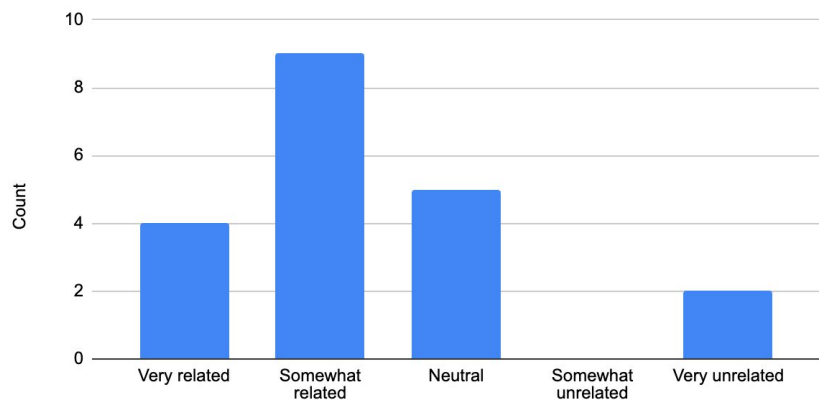
Student Learning Experiences: Perceived Connection between AI and subject areas

- Started with a vague impression or focus on AI as tools
- Expanded and deepened their understanding
 - patterns and structures in English writing & language models generate text.
 - mathematics as the link between raw text and the sentiment analysis model built from it.

Student Learning Experiences: AI & ELA

Pre-survey

In your opinion and experience, how related is ELA to AI?



6: In your opinion and experience, how related is ELA to AI?

AI relies on
language
structure

AI as a tool

Post interview

*In the beginning, **I didn't know anything about** ... my understanding on it (connection between AI and ELA) definitely improved because we were given more context...the lesson went on to explain it further.*

— Rana

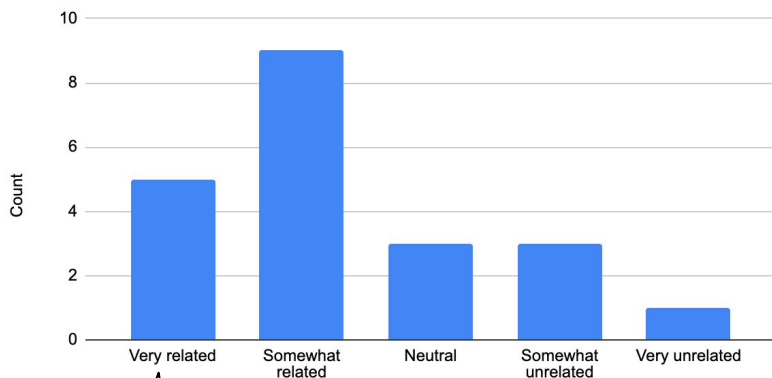
*Bubbles and arrows, generating sentences. It was **a good visual how it works**. Good explanations.*

— Emma

Student Learning Experiences: AI & Math

Pre-survey

In your opinion and experience, how related is math to AI?



5: In your opinion and experience, how related is math to AI?

Math behind AI

AI can do math

Post interview

*I assumed (there was) a mathematical aspect, how it processed everything... (for) positive and negative reviews, (the model) chose sentiment based on **word features**, and counting them...*

— Rana

*In the beginning I felt like AI could kind of connect with math. But I wasn't sure how. So then there were the models ... **based on the equation**, it determines whether it's positive or negative (sentiment).*

-- Emma

Student Learning Experiences: Overall

Didn't know how AI works, now I do, pretty good understanding **how it generates its answer** now....

....not the full context, **fundamental to do it all together**, all important.....

— Rana

Difference from general ELA and math classes, which focused more on the subject, don't learn more about AI, this lesson gives **in-depth learning** (about AI)

— Emma

Feasibility

- *Administrative approval and support
- *Teacher team leader
- ** Teacher professional learning activities
 - One-day joint professional development workshop
 - Subject-specific training and prep time
- *** A team of subject-area teachers teaching the same group of students
 - Require cross departmental collaboration
 - Scheduling alignment
 - Centralized curriculum make it difficult for a single teacher to try new content.
 - Large schools have multiple teachers teaching a course (e.g., 3 teachers covering 10 sections)
 - Sustainability: Teaching assignment change and teacher turnover
- Unforeseeable events

2025-26 Exploratory Study

- Recruited more broadly
- Prioritized a full team of teachers
- Open to partial teams with the potential to expand to a full team
- Flexible entry point with any subject area and usage

NY1
Math V2 G7 Math, G7

MD2
ELA V2 English, G9
SS V2 English, G9
ELA V2 English, G10

MS1
SS V2 History, G_

MS2
ELA V2 English, G_
Math V2 Adv Tech Math, G_
SS V2 History, G_

Implications

- Partial implementation is still valuable
- Exposure to AI in any core subject is better than none
- Schools can adopt the module set flexibly

Access to the Paper

Chao, J., Ellis, R., Jiang, S., Smyslova, D., Li, Q., Nocera, A., ... & O'Grady-Cunniff, D. (2026, March). AI Education Across the Curriculum: Design and Pilot Study of a Cross-Disciplinary Module Set. In Proceedings of the AAAI Conference on Artificial Intelligence (Vol. 40, No. 47, pp. 40746-40753).

<https://ojs.aaai.org/index.php/AAAI/article/view/41523>

[EAAI-2026-CameraReady.pdf](#)

Implications for AI Education

Future Directions

Toward Scalable, Equitable AI Education

- Building school-wide expertise and capacity for AI education
- Ongoing work
 - Identify, train, and support **AI education leaders** within school districts
 - Teacher professional development program **for cross-disciplinary teaching teams**
 - Develop measures for **AI educator identity**
 - Robust curriculum modules for **independent study** and **flexible use**

Collaborate with us!

Upcoming Study on the Extended Math Module

You are invited!

8th grade math classrooms in the U.S.

Complete the interest form below:

Scan the QR code to complete the interest form or contact the WestEd team at MathinAI@wested.org for more information.



Link to this flyer: <http://short.concord.org/m6y>

INVITATION: Participate in the *AI in Math* Study for 8th Grade

WestEd, in partnership with Concord Consortium, the University of Florida, University of Miami, and Texas Tech University, is studying the potential impact of *AI in Math* when used as a supplemental program in 8th grade math classes.



What is *AI in Math*?

AI in Math is a supplemental program where students learn about the mathematical thinking and skills and their relationship to Artificial Intelligence (AI). While using *AI in Math*, students will solve math problems and learn the math behind AI topics. They may build AI literacy and strengthen math skills.

Who can participate?

8th grade math teachers and their classes

How does the study work?

Participating teachers will be randomly assigned to one of two groups: **Immediate Treatment Group** or **Delayed Treatment Group**.

All Teachers

- Distribute parent information letters
- Administer student pre/post-math tests and questionnaires
- Complete teacher surveys

Immediate Treatment Group

- Access to *AI in Math* & PL during 2026–27
- Use in class with students for 8–12 weeks
- Complete surveys, logs, and a virtual interview (if selected)

Delayed Treatment Group

- Access to *AI in Math* & PL during 2027–28

Benefits

- Teachers may benefit from using the *AI in Math* program and the associated professional learning (PL) to support instructional practices.
- Students may learn new math skills and develop AI literacy

Cost & Compensation

- There is no cost to participate.
- Participating teachers will receive \$1000 (immediate treatment group) or \$600 (delayed treatment group). Stipends will be prorated based on completed research activities.

Scan the QR code to complete the interest form or contact the WestEd team at MathinAI@wested.org for more information.



Questions & Comments

Contact me (Jie Chao, jchao@concord.org):

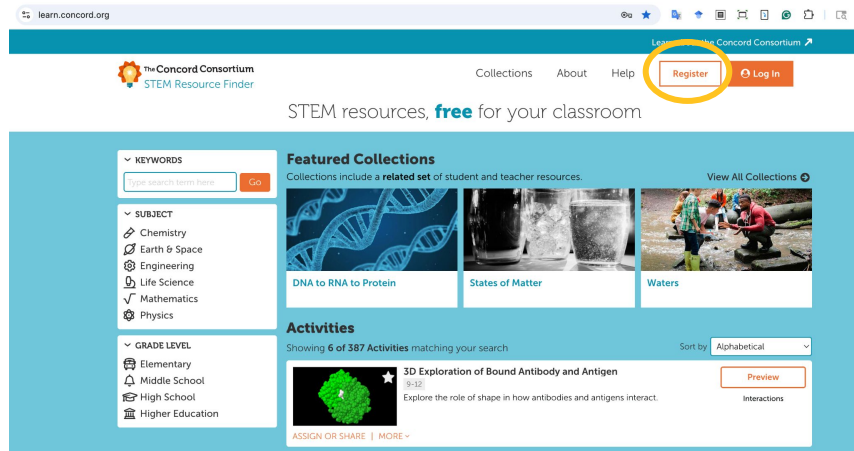
- About the module set
- About research findings
- Teacher PD workshop
- Future researcher-practitioner collaboration



Additional Information

How can I use the modules?

Create a Teacher Account: learn.concord.org



Access to:

- Teacher Resources
- Teacher Edition
- Teacher Dashboard

Create an Account
for the STEM Resource Finder

I am a **Teacher**

I am a **Student**

Already have an account? [Log in »](#)

Why sign up? It's free and you get access to bonus features!
Students can save their work and get feedback from their teachers. **Teachers** can create classes, assign activities, track student progress, and more!

Teacher Resources

Teacher Resources

Module Descriptions & Course Alignment

This document outlines each module, suggests course alignment, and has links to pre & post tests.

Guide to Assigning Materials

This document is a step-by-step guide on how to create your classes and assign materials to your students.

Curriculum Use Information Sheet

This document is an information sheet about the project for parents/guardians.

ELA Text Classification Support

This is the detailed teacher guide for the ELA text classification module.

Ready to get started? Learn how with the [STEM Resource Finder](#).

Teacher Edition



SY25-26: AI Text Generation for ELA

Community Assigned to Summer 2025 Workshop

Students explore their own decision-making process as writers as they learn the fundamentals of AI text generation. Students leverage their ELA skills, such as close reading, authorship, and grammar, as they learn how AI generates text.

ASSIGN OR SHARE **TEACHER EDITION** | EDIT | COPY | MORE ▾

Preview

StoryQ

Teacher Edition



Sequence: SY25-26: AI Text Generation for ELA

Anonymous

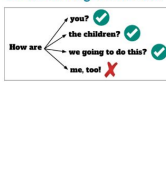
SY25-26: AI Text Generation for ELA

Estimated Time to Complete This Module: 220 minutes

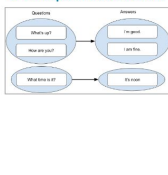
1. Determining authorship



2. How do we generate text?



3. Concepts and associations



Tap text to listen



Sequence: SY25-26: AI Text Generation for ELA

Anonymous

Activity: 1: Determining authorship

Warm-up

Tap text to listen

Theory & Background

Framing The Activity

Before you run Lesson 1 with your students, complete these steps:

1. Create blank Google Slides and save it to your personal drive.
2. Save a copy of this [form](#).
3. Go to the Responses tab and select "Link to Spreadsheet"
4. Then, while your students complete their writing task in the middle of this activity, complete the form yourself multiple times by copying in AI generated texts that can be found [here](#).
5. Once all submissions are in (all students and the generated AI writing samples), return to your spreadsheet and click on the arrow in cell B1 ("What writing task are you doing?") and sort Column A to Z.
6. Once sorted, copy and paste columns B and C into a fresh document that you can share with students either digitally or printed.

Optional Print-Out

Students will examine [this PDF](#) on page 5. It is up to you if you want to print it so that students can work on paper. We have also provided for you an [Annotated Version](#) to help you prepare for what you might see your students doing. Please note that the annotated version is NOT an answer key.

You have opportunities to write and communicate in many different ways. Spend a few minutes to think about the different things you have written lately (not just at school).

Teacher Dashboard

The Concord Consortium
STEM Resource Finder

CollectionsAboutHelp

My ClassesLog Out

Welcome, StoryQ Author

HELPSETTINGSFIND RESOURCESFAVORITES

Admin

Researcher Reports

Research Projects

Classes

StoryQ PD Workshop - Fall 2021

FabLab PD Winter 2025

Summer 2025 Workshop

Assignments

Student Roster

Class Setup

Links

Add Class

Manage Classes

Recent Updates

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Assignments for Summer 2025 Workshop

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Teacher: Rebecca Ellis, StoryQ Author

Class word: weteachai

NAME	CLASS SETTINGS		
	VISIBLE	LOCKED	
Summer 2025 Workshop Entry Survey	☒	☐	+ SHOW DETAIL
SY25-26: Self-Paced Module: AI is Everywhere	☒	☐	+ SHOW DETAIL
SY25-26: Math & AI Pre-Survey	☒	☐	+ SHOW DETAIL
SY25-26: Math & AI	☒	☐	+ SHOW DETAIL
SY25-26: Math & AI Post-Survey	☒	☐	+ SHOW DETAIL
SY25-26: AI Text Generation for ELA	☒	☐	+ SHOW DETAIL
SY25-26: History Pre Survey	☒	☐	+ SHOW DETAIL
SY25-26: AI-Powered Historians	☒	☐	+ SHOW DETAIL
SY25-26: AI for the Real World	☒	☐	+ SHOW DETAIL
SY25-26: History Post Survey	☒	☐	+ SHOW DETAIL
SY25-26: StoryQII Entry Questions	☒	☒	+ SHOW DETAIL

The Concord Consortium

Progress Dashboard

Assignment: SY25-26: Math & AI

Rebecca Ellis

Summer 2025 Works...

Anonymize students

Class: 32 students

Student Name

Last Run

Activity 1: Sentiment Analysis

P3: Sentiment analysis

P4: Positive or negative?

P5: Try a model

P6: Your thoughts and feedback

MC Qs Score

2: Finding Keywords

3: Creating Lists

Activity Progress: Completed In progress Not started

Feedback: Given Answer Updated

Student 30	07/24/25 08:32 AM	☒	☒	☒	☐	☐	☐											3/3	☐ 18/30	☒ 1
Student 12	07/24/25 01:35 PM				☐	☐	☐											0/3	☐ 18/30	☐ 1
Student 28	07/21/25 11:27 AM																	0/3	☐	☐
Student 22	N/A																	0/3	☐	☐
Student 5	07/23/25 01:36 PM																	0/3	☐ 7/30	☐
Student 29	08/01/25 10:09 AM	☒	☒	☒	☐	☐	☐											3/3	☐ 17/30	☒ 2
Student 31	N/A																	0/3	☐	☐
Student 13	N/A																	0/3	☐	☐
Student 24	07/24/25 08:46 AM				☐	☐	☐											0/3	☐ 23/30	☐ 1
Student 20	07/24/25 10:07 AM	☒	☒	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐		2/3	☐ 12/30	☐ 1
Student 3	N/A																	0/3	☐	☐
Student 10	N/A																	0/3	☐	☐
Student 14	N/A																	0/3	☐	☐
Student 16	07/21/25 11:26 AM																	0/3	☐	☐
Student 19	07/25/25 10:07 AM	☒	☒	☒	☐	☐	☐					☐						3/3	☐ 19/30	☐ 1