



Introduction to Notebook LM & Gemini Integration



Empowering Education Through AI

<https://eiu.zoom.us/j/89680498134?pwd=VGmkaZIRsBgGQHvWsSQuHMOEDr66M.1>





GROW YOUR OWN TEACHERS ILLINOIS

Student PD Certificate or 1 CPDH Unit for Licensed Teachers

PROFESSIONAL DEVELOPMENT WORKSHOP

NOTEBOOK LM & GEMINI

NotebookLM and Gemini are integrated into Google for Education and Classroom. This integration enables educators to create learning materials and offers students audio overviews as well as interactive study guides

Google for Education
Explore products that power education



INSANE WORKFLOW!



- Use Gemini to: Brainstorm ideas, draft lesson plans, create quizzes, and generate images/videos quickly.
- Use NotebookLM to: Summarize/Integrate/Search PDFs, Google Docs, or web links creating a customized and controlled content that uses only the provided sources, citing them directly.
- Audio Overviews: Turn textbooks or curriculum documents into engaging podcast-style conversations.
- These tools are a safe way to manage AI and control the exact sources used.
- As Google Core Services the contract guarantees Privacy. Data is not shared and never used to train AI models

AGENDA TOPICS

- ✓ Reduce planning and administrative tasks.
- ✓ Create customized study guides, infographics, and interactive quiz games.
- ✓ Differentiate - Adjust text complexity for diverse learners.
- ✓ Hand-on: Setting up a NotebookLM source notebook.
- ✓ Introduction: Understanding Gemini vs. NotebookLM (When to use which).

Room 2445 Buzzard Hall
April 9, 2026
4:30 to 5:30 PM



Questions:
tsullivan@eiu.edu
eiu.edu/rsi/prof_development.php

In Person or by Zoom



Recommend bringing a laptop or tablet

Sign In Needed to Receive Certificate or PDH unit

https://docs.google.com/forms/d/e/1FAIpQLSdWsyhqNWX7Wcshx8Ty2OlqcFljJ1d_NJvDg-gcT_YEVYTHbw/viewform?usp=dialog



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**GROW YOUR
OWN TEACHERS**

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EIU - Rural Schools Initiative
G.Y.O - Grow Your Own Cohorts
Director Dr. Cecil Smith

Monthly Tech PD Sessions



EIU RURAL SCHOOL INITIATIVE

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Google released NotebookLM and Gemini for schools with full default enablement for Workspace for Education in August 2025. Educators were able to start assigning NotebookLM and Gems (custom AI bots) directly within Google Classroom in September 2025.

NotebookLM is free to use

- **Users of NotebookLM must:**
 - **Be at least 18 years old OR approved by school**
 - **Have a Google account.**

For Education these are core services so Google does not use your data to train NotebookLM. However, NotebookLM is experimental and, like most AI services, may sometimes provide incorrect information. Use your teacher knowledge.

Free Version

- Create up to 100 notebooks
- Upload up to 50 documents per notebook
- Add documents up to 100 MB and 500,000 words
 - Add Websites, Youtube videos
 - Add PDFs, Google Docs, Google Slides, or pasted text
- Upload an audio MP3 file - it converts to text and analyzes
- Save AI responses and key passages in a noteboard
- Full Integration with Gemini
 - NotebookLM is a closed environment only using loaded resources
 - Gemini is an open environment with access to the full web unless prompt restricted



Premium Versions are available with a licensing fee.

What is Notebook LM?



- Google's innovative AI-powered note-taking and research assistant.
- Designed to enhance reading comprehension and analysis
- Built-in source verification and citation tracking
- Secure platform with a focus on academic integrity
- Helps teachers organize and process educational content efficiently

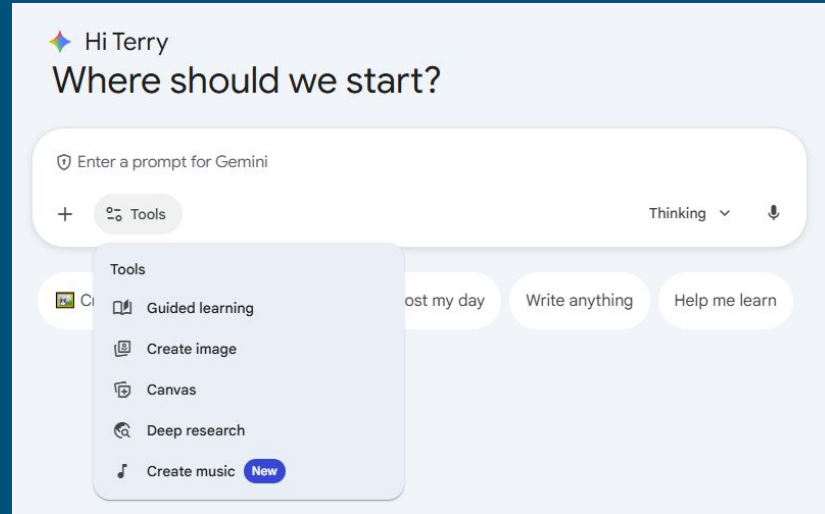
What is Gemini? (And Why Now?)



- The "Core Service" Advantage: In Google Workspace for Education, Gemini now has enterprise-grade privacy.
- Safety First: Your prompts and student data are not used to train AI models or reviewed by humans.
- Integration: It's built into the tools you already use (Docs, Slides, Classroom, and Gmail).

Gemini in Google Docs & Slides

- Docs: Use "Help me write" to generate differentiated reading passages, IEP draft language, or rubrics.
- Slides: Generate custom visuals with Gemini 3 Flash Image (formerly Nano Banana 2) to match specific lesson themes.
- Formatting: Instantly convert a messy outline into a structured syllabus or project brief.



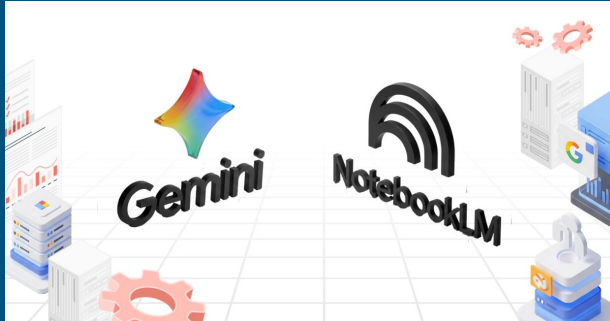
Revolutionizing Assessment with Gemini in Forms

- Help Me Create: Describe a topic (e.g., "5 questions on photosynthesis for 7th grade") and Gemini builds the form.
- Smart Suggestions: Gemini analyzes your questions and suggests better distractors or more rigorous alternatives.
- Response Summaries: Use AI to identify common misconceptions in open-ended answers without reading 150 entries manually.

The integration of NotebookLM and Gemini in education provides a secure, AI-powered workspace (COPPA/FERPA compliant) that leverages Gemini's models to analyze, summarize, and create, blog.google. Users can ground Gemini's reasoning in their own uploaded documents (PDFs, Docs) via NotebookLM, blog.google to generate audio overviews, quizzes, and mind maps, fostering personalized learning, note-taking, and research for students and teachers

The Integration: Syncing Gemini & NotebookLM

- Shared "Notebooks": In 2026, Gemini and NotebookLM sync bi-directionally.



- Workflow:
 - 1. Research a broad topic in Gemini.
 - 2. Save it to a Notebook.
 - 3. Open NotebookLM to generate a Mind Map or Infographic from that data.
- Continuity: Sources added in one app automatically appear in the other.

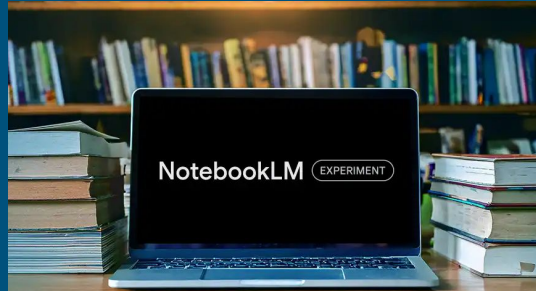
Example: The Personalized Study Center

- The Task: Preparing for a Unit Exam on the Civil War.
- Teacher Workflow: * Upload lecture notes and primary sources to a Notebook.
 - Generate a Cinematic Video Overview for visual learners.
 - Generate a Guided Learning quiz for students to test their own knowledge.

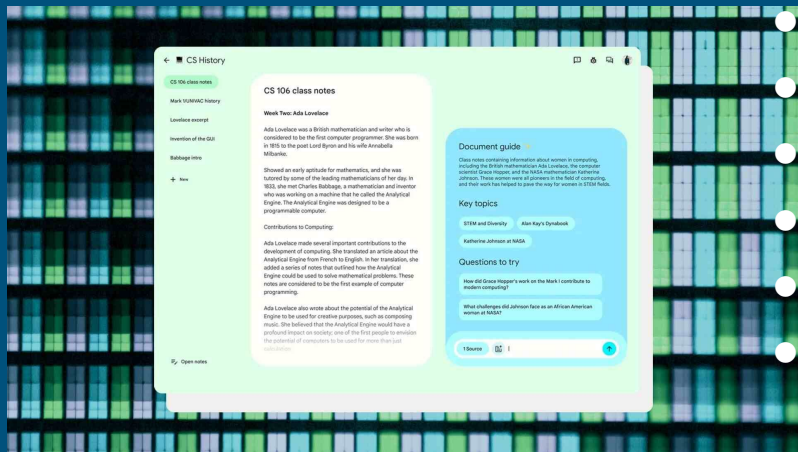
Instead of one-size-fits-all, you can provide a "study suite." Some students listen to the Audio Overview on the bus, while others use the interactive Mind Map.

Key Features for Educators

- Intelligent summarization of complex texts
- Question-Answer capabilities using source materials
- Real-time fact-checking and verification
- Collaborative workspace lesson planning
- Integration with Google Workspace (Docs & G-Classroom)



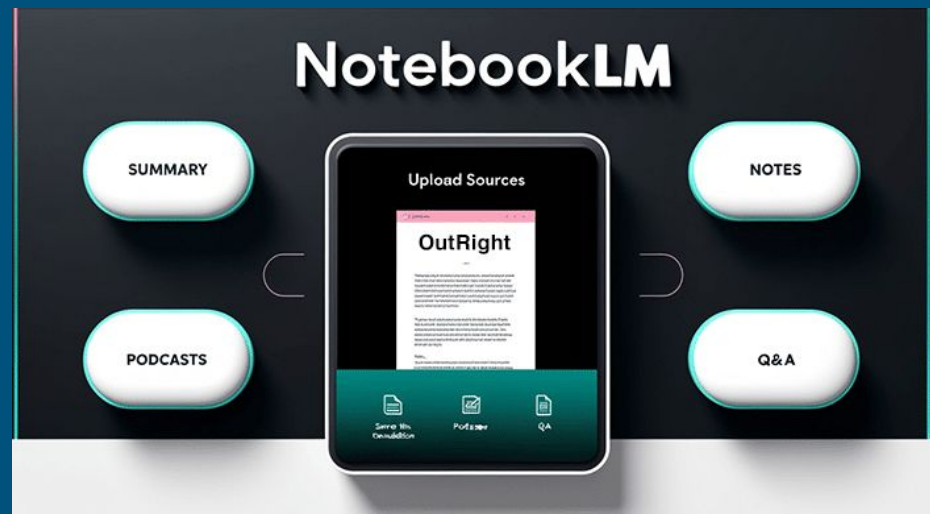
Benefits for Teachers



- Saves time in lesson planning
- Summarizes lengthy educational materials
- Generates discussion questions
- Creates quick assessments
- Helps differentiate instruction
- Provides research assistance

Getting Started

- Visit notebooklm.google.com
- Sign in with Google account
- Create a new notebook
- Upload or paste educational content
- Start interacting with the AI assistant
- Save and organize your work



Practical Example: Lesson Planning

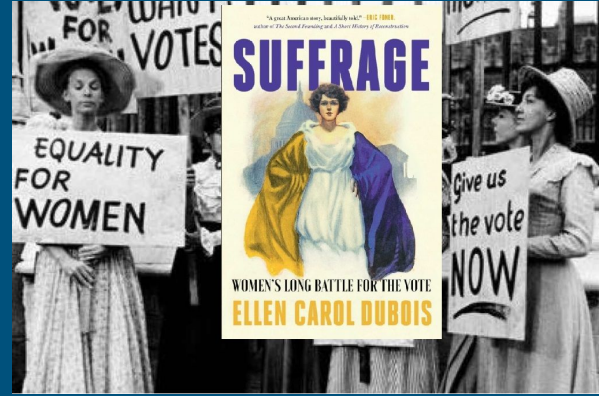
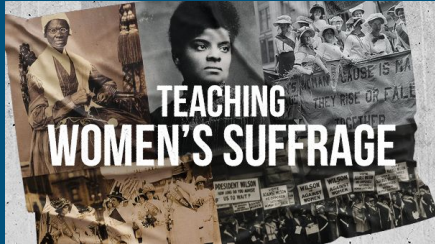
- Upload your curriculum standards
- Ask NotebookLM to:
 - Break down standards into objectives
 - Suggest activities aligned with objectives
 - Create assessment questions
 - Generate differentiation strategies
 - Example Query: "Create a week-long lesson plan for photosynthesis"



Practical Example: Content Summary

Upload a textbook chapter

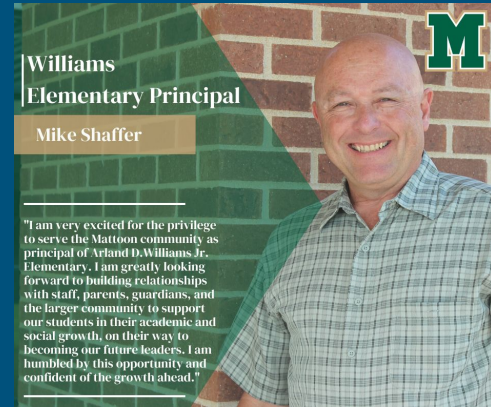
- Request:
 - Main concepts summary
 - Key vocabulary list
 - Student-friendly explanations
 - Review questions
 - Example Query: "Summarize this chapter for 7th-grade reading level"





Best Practices

- Be specific in your requests
- Review AI-generated content before use
- Combine with your professional judgment
- Use as a starting point, not final product
- Keep student needs in mind
- Save successful prompts for future use



Common Applications

- Content summarization
- Creating study guides and guided questions
- Generating writing prompts
- Developing rubrics
- Crafting exit tickets
- Formulating discussion questions
- Building vocabulary lists
- Creating differentiated worksheets
- Lesson planning enhancement
- Research assistance
- Student support materials



Google AI toolkit collection and how-to's

Your Google AI toolkit for everyday use

Click on each tool to learn more.

The screenshot displays a grid of AI tools. The 'Gemini' section includes links for Gemini, Gems, Gemini Canvas, Deep Research, Guided Learning, Learning coach, Video creation, and Image creation. The 'NotebookLM' section includes links for NotebookLM, Mind Maps, Audio Overviews, Video Overviews, Reports, Flashcards and Quizzes, and Infographics. The 'Google Workspace with Gemini' section includes a link for 'Unlock Gemini in Google Workspace with two paid options'. The Google logo and 'Google for Education' are visible at the bottom right of the interface.

Google AI Toolkit - [LINK](#)



EduGems

Home

- ▼ Lessons and Curriculum
- ▼ Materials and Content
- ▼ Engagement and Games
- ▼ Support and Differentiation
- ▼ Assessment and Data
- ▼ Literacy and Language
- ▼ Math and Science
- ▼ Student Tools
- ▼ Professional Tasks
- ▼ AI Integration

EduGems

💎 **Welcome to EduGems!** This is a growing collection of pre-made prompts ("Gems") for educators to use with Google Gemini.

- 📄 Click on any item below to get **details** on that Gem, with options to **use** or make your own **copy** of the Gem.
- ✨ When you click to use a Gem, it will open in **Gemini**. Type "**Hi**" to start the Gem.
- 😬 If better results are needed, choose "**Thinking**" or "**Pro**" instead of "**Fast**" for the Gemini model.

📄 **More Details:**

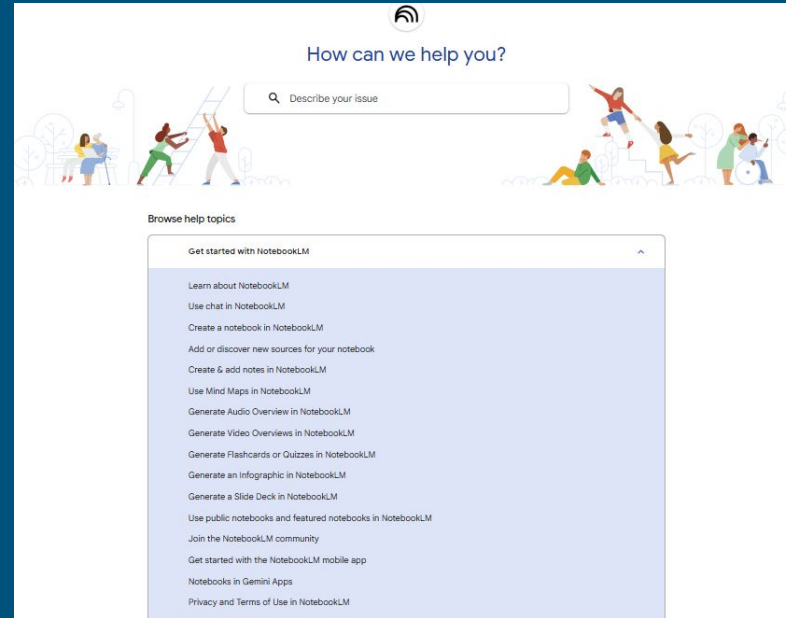
- ▶ Learn all about using, creating and sharing Gems in [my tutorial video](#) and more about Gemini in general here bit.ly/curts-gemini
- 📧 [Sign up for my email newsletter](#) to never miss out on new Gems
- 📄 Please **submit your own Gems** to be considered for inclusion in this collection - [Google Form link](#)
- ? If you have any questions or comments, reach out to me at ericcurts@gmail.com and be sure to explore all of my EdTech and AI resources at controlaltachieve.com

EDU * Gems * by Eric Curts - [LINK](#)

Next Steps and Resources

- Join NotebookLM teacher communities
- Practice with sample content
- Start with one subject area
- Set realistic implementation goals
- Share feedback with colleagues
- Stay updated on new features

Find Support @ help.google.com/notebooklm

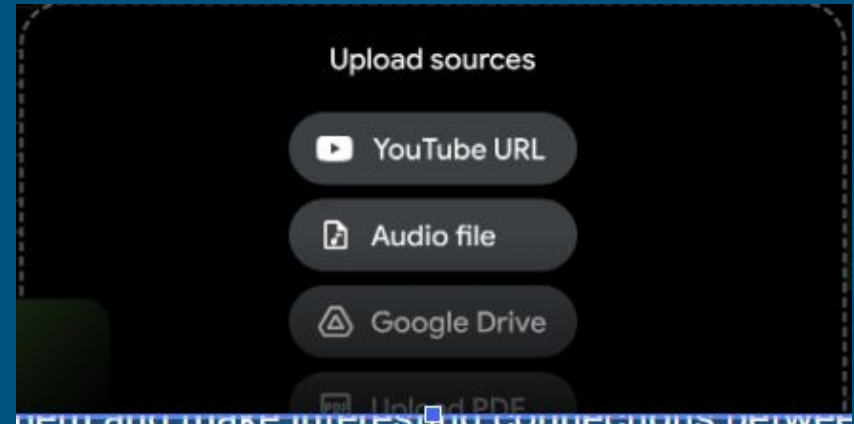


Upload Sources

Upload: PDFs, Websites, YouTube, Audio files, Google Docs, or Google Slides

NotebookLM will summarize them and make connections between topics

MultiModal and MultiLingual



See the source, not just the answer

NotebookLM provides clear citations

Shows exact quotes from sources

In-text Citations
You use only a few basic details

The researcher describes a virtuous person as one "who acts and feels as he or she ~~should~~ *for the right reason* considering the circumstances" (Aviara, 2017, p.770).

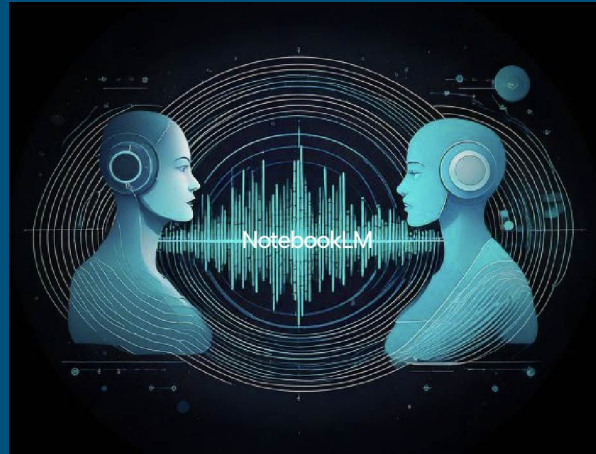
Reference List
You use ALL of the details

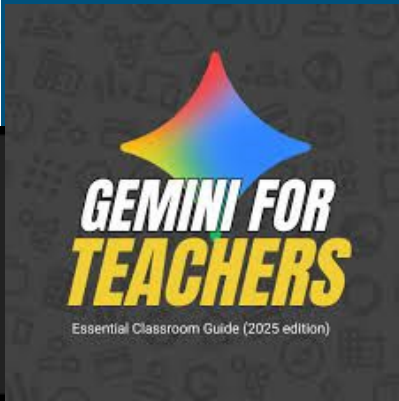
Aviara, C. (2017). Ethical veganism, virtue and greatness of the soul. *Journal of Agricultural and Environmental Ethics*, 30(6), 765-781. <https://doi.org/10.1007/s10806-017-9598-z>

Listen and learn on the go

Audio Overview feature - turn sources into “Deep Dive” discussions

Produce audio podcasts and video overviews for a topic





Questions-Comments!

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Slides