

 Gemini for Education

Gemini pre vysoké školy

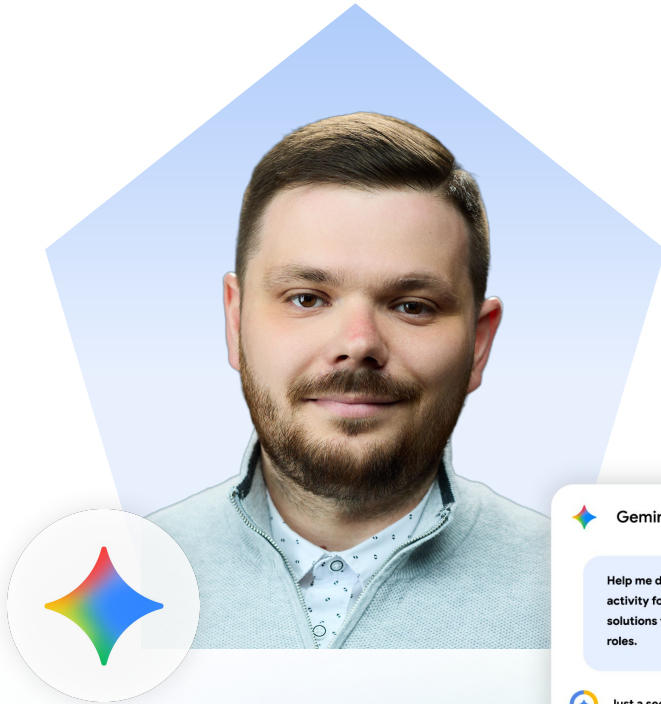
Séria Google AI pre pedagógov



Dávid Kováč



AdanteSystems



 Gemini

Help me design a collaborative group activity for students to explore solutions to climate change. Include roles.

 Just a sec...



Google for Education
Certified Educator Level 2



Google for Education
Partner



Google Cloud
Partner



Our goal at Google isn't to replace the essential human elements of learning and teaching, but to **support educators** and to **make learning more effective, efficient and engaging** — not just for school, but for work and lifelong curiosity.



Ben Gomes

Chief Technologist

Ciele vzdelávania

Na konci tejto prednášky budete schopní **definovať generatívnu AI a využívať Gemini na prirodzenú automatizáciu osvedčených vyučovacích postupov** – ako je scaffolding a znižovanie kognitívnej záťaže – s cieľom vytvárať učebné materiály s vysokým dosahom.



Štandardy ISTE v tomto kurze

Univerzita

- Navrhovanie vzdelávacích príležitostí
- Etické a zodpovedné správanie

[Pre viac informácií kliknite sem](#)

01.

Úvod

Základy

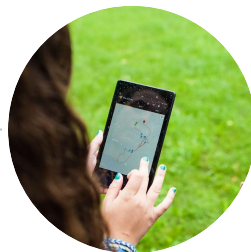
Gen AI ✨ je ďalšia revolúcia



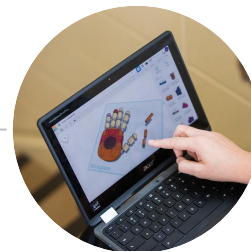
PC



Internet



Mobil



Artificial
intelligence



Generative AI

Využite Gen AI naplno pri každodennej výučbe ako aj budovaní učebných osnov pre zefektívnenie procesov.

GenAI

Gemini je váš kreatívny partner pre „náročnú prácu“ pri navrhovaní výučby – umožňuje vám škálovať personalizované vzdelávanie a osvedčené postupy v každej triede.

- **Generatívna AI** predstavuje posun od jednoduchých vyhľadávacích nástrojov k technológii, ktorá rozumie kontextu, tónu a zložitosti.
- Tento prechod vám umožňuje pôsobiť ako „**koordinátor vzdelávania**“ tým, že skracuje čas strávený manuálnou tvorbou obsahu.
- Teraz môžete jednoducho škálovať **personalizovaný scaffolding** a **jasné analógie**, ktoré preukázateľne pomáhajú rastu študentov.
- **Gemini pre vzdelávanie** slúži ako váš **osobný AI asistent**, ktorý vám pomôže zvládnuť náročnú prácu pri navrhovaní výučby.

Generative AI can set up students, educators and education leaders for success

**5-10 hours
saved per week**

by 37% of participants
in a recent study on generative
AI.¹

63%

of higher education instructors
and K-12 teachers believe AI
has the potential to **improve
student engagement**.²

71%

of business leaders say they
would hire a less experienced
candidate with AI skills over a
more experienced one
without.³

\$3.20 ROI for every \$1 spent ^{4*}

* Mean ROI for education.

Source: 1. [Contentful \(2024\)](#), 2. [Cengage Group: AI & Education \(December 2024\)](#), 3. [2024 Work Trend Index Annual Report \(May 2024\)](#), 4. [IDC \(November 2025\)](#)

Transform education with the help of Gemini



Save time

Speed up time-consuming tasks so you can focus on what matters most.



Make learning more personal

Captivate each student with content that's tailored to their needs and interests.



Inspire creativity

Get fresh ideas and inspiration for new approaches with your AI assistant.



Learn confidently

Empower students with AI-guided support to help them learn with confidence.



While keeping your data private and secure

Google is an industry pioneer in AI



2015

Google DeepMind
AlphaGo defeats
Go champion



2016

Google's
DeepMind helps
detect eye
disease



2017

Google invents
Transformer,
kickstarting the
LLM revolution



2018

Google's
groundbreaking
large language
model, BERT



2019

Text-to-text
Transfer
Transformer
LLM 10B P Model
Open Sourced



2020

Google LaMDA
model trained
to converse



2022

AlphaFold predicts
structures of all
known proteins



2023

A conversational AI
Service powered
by PaLM2

Gemini in Google
Workspace

LearnLM

2024

A family of AI
models rooted in
learning science
principles and
educational
research

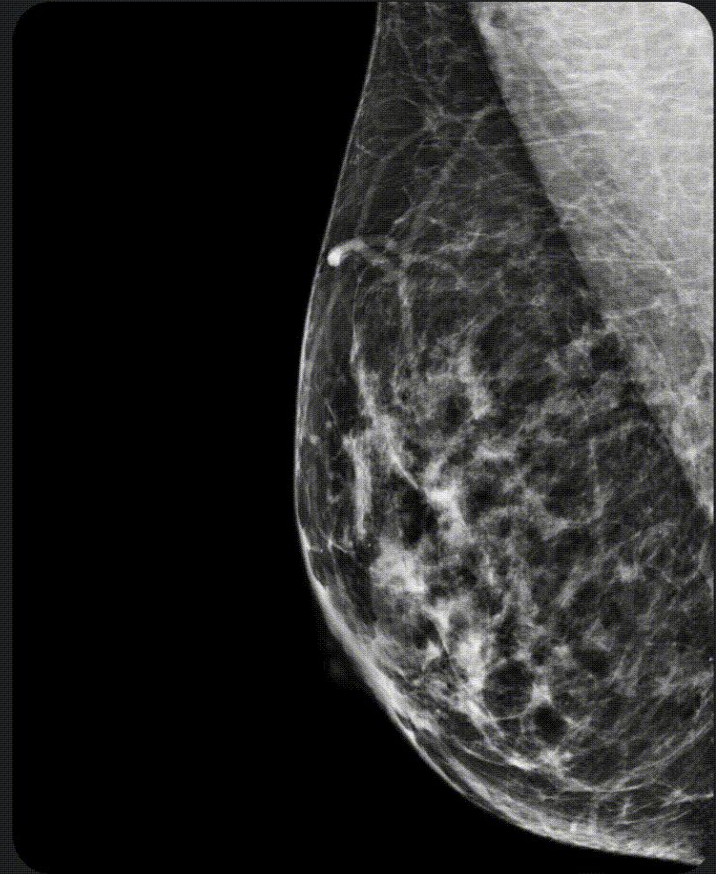


Nano Banana

2025

Groundbreaking
image
generation and
editing model
goes viral

Google Health: Advancing breast cancer detection¹



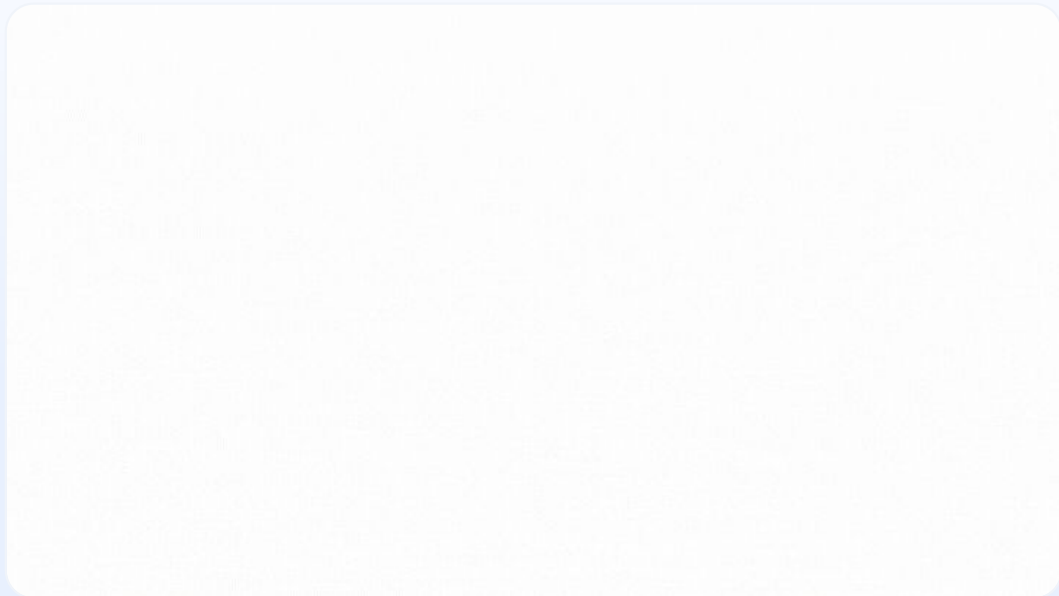
GraphCast: AI model for faster and more accurate global weather forecasting¹

Prehľad AI

Generatívna AI

Zadáte výzvu (pokyny) na vytvorenie niečoho úplne nového:

- **Zostaviť** originálny text alebo funkčný kód.
- **Vytvoriť** realistické diagramy alebo štylizované obrázky.
- **Generovať** video, hudbu alebo audio klipy.



Google AI dáva automaticky



Zadarmo



Najnovšie modely



Firemná úroveň
bezpečnosti bez
kompromisov



Plný AI stack



“Uzemnené” dáta
vo vede.



Jednoduché nasadenie

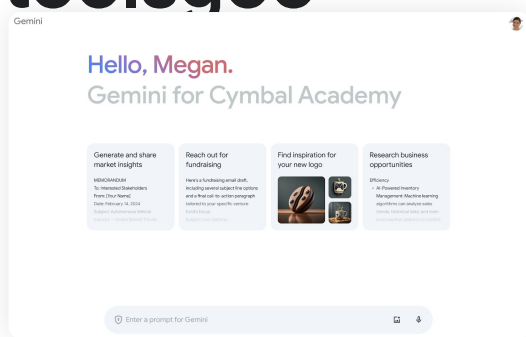


Integrácia s vašimi
dátami



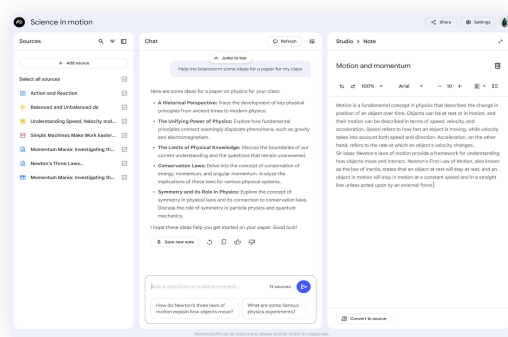
Najnovšie funkcie k
dispozícii

Empower your entire education community with secure, free-of-charge generative AI tools



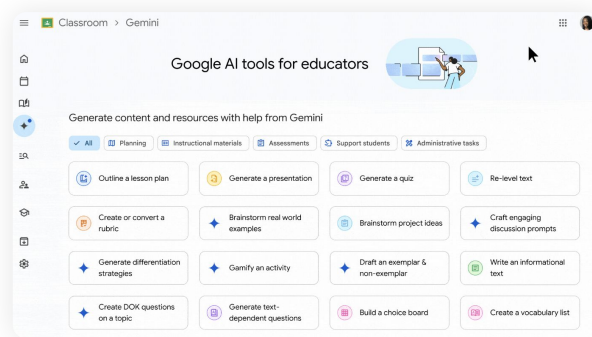
Gemini for Education

Plan lessons, differentiate learning materials, summarize content, and more at gemini.google.com.



Google NotebookLM

Understand anything with AI that's grounded only in the information you provide at notebooklm.google.com.



Gemini in Google Workspace

Access Gemini in Google Classroom and Google Workspace Studio at no cost. Upgrade to access Gemini in Google Docs, Google Sheets, Google Slides, and more.

Core Services with enterprise-grade data protection—data isn't reviewed or used to train AI models.

Your data, your control.

Enterprise-grade protection at no cost.

Enterprise security, no charge

You receive our **enterprise-grade data protections** at no cost when you use Gemini with a school-issued Google Account.

Your data is **not human reviewed or used to train AI models**

Premium value, without the price

Unlike many other providers, we don't reserve our core protections for paid tiers.

- Gemini for Education is **free of charge but provides similar functionality to other paid offerings**, giving your entire institution a secure, powerful, and scalable AI platform from day one

Gemini for Education supports compliance with:

- | | | |
|------------|--------------------|-----------------|
| • GDPR | • FERPA | • ISO 9001 |
| • CCPA | • FedRAMP (medium) | • SOC 1/2/3 |
| • HIPAA | • ISO 27001/17/18 | • COPPA |
| • CSA STAR | • ISO 27701 | • ISO/IEC 42001 |



Gemini has been awarded the [Common Sense Media Privacy Seal](#), meeting best practice criteria for privacy.



Vaše dáta zostávajú v bezpečí

Gemini, Google NotebookLM a Google Workspace with Gemini sú pod špeciálnymi podmienkami [Google Workspace for Education Terms of Service](#).



Vaše **nie** sú manuálne kontrolované a nepoužívajú sa na tréning modelov.



Vaše dáta sa nezdieľajú s inými užívateľmi.



Google nepoužíva vaše dáta na reklamné účely



Vaše dáta vlastníte vy, nie Google.

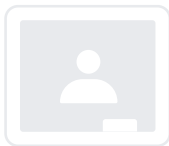


Všetky dáta sú šifrované pri uložení aj pri tranzite.



Google je pravidelne auditovaný na dodržiavanie vysokých štandardov.

Inštitúcie ktoré už používajú Gemini



Gemini overview

What is Gemini?

Gemini is Google's AI assistant where you can interact using text, images, video or voice. Gemini can speed up the "heavy lifting" of instructional design:

- **Automated scaffolding:** Generating tiered supports and outlines in seconds.
- **Instant differentiation:** Adjusting text complexity to reduce cognitive load without losing the "big ideas."
- **Rapid analogy generation:** Building bridges between complex topics and student interests.



02.

Gemini

Foundational

Gemini overview



Gemini Canvas

An interactive workspace for drafting and live-editing lesson plans and code.



Deep Research

An investigative agent that explores up to hundreds of sources across the web and your Drive to synthesize comprehensive, citation-backed reports.



Guided Learning

A collaborative thinking partner that uses the Socratic method to lead you (or your students) through complex topics step-by-step.



Create Images

A visual design partner that generates high-fidelity classroom images, diagrams, and posters with legible and accurate text in multiple languages.



Create Videos

A video production partner that turns your prompts into a complete first draft of an instructional video, including scripts, storyboards, and optional voiceovers.

Využite Gemini naplno

- **Prompt** je set inštrukcií ktorý Gemini exekuuje.
- Využite **PARTS** framework pre skladanie efektívnych promptov.
- Promptovanie je iteratívny proces
- Stále môžete využiť Gemini na napísanie promptu

P

Persona

A

Aim

R

Recipients

T

Theme

S

Structure

Personalize Gemini with Gemini Gems

Gemini Gems are customized versions of Gemini that you can personalize to be experts on any topic. Get started with premade Gemini Gems from Google, or create your own Gemini Gems and share them with others—no coding required.



Educators: Lesson planning

Plan lessons faster with a custom Gemini Gem grounded in your curriculum and education standards.



Students: Personalized learning

Get personalized study guidance and practice quizzes using the premade Learning coach Gemini Gem.



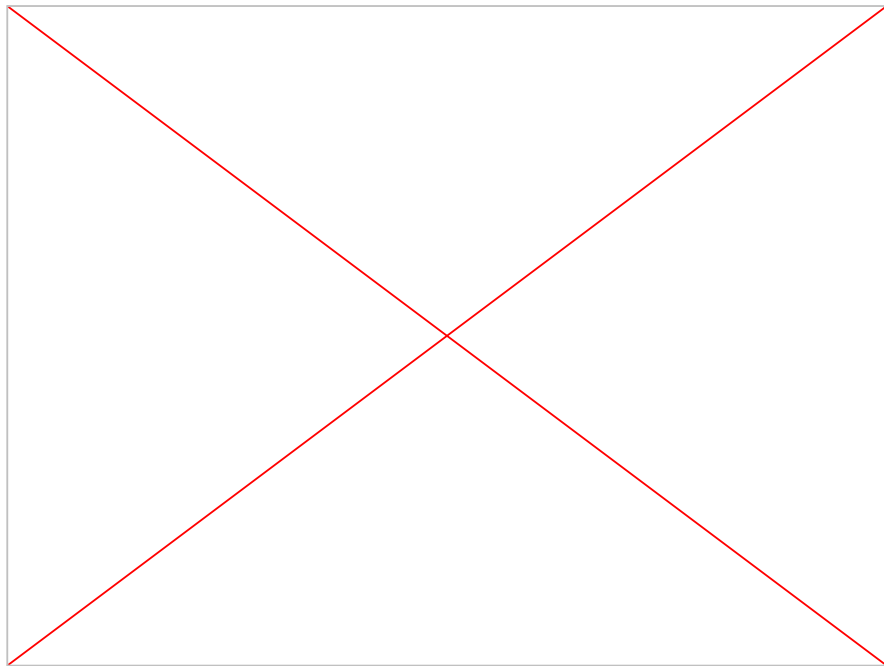
Researchers: Research assistance

Speed up literature reviews and summarize research papers with a custom Research assistant Gemini Gem.



Administrators: Streamlined communications

Draft tailored announcements for alumni, parents, staff, and students with a custom Communications Gemini Gem.



03.

Sklenníkový efekt

Ukážka

Certifikácia Gemini

Complete the short quiz that follows to demonstrate your understanding of these concepts and claim your **Introduction to Gemini for Education** badge.

Take the quiz



goo.gle/ges1



Ako získať prístup k Gemini pre vzdelávanie?

info@adante.systems