

Gemini Pilot



Conduct your own AI research project in your school, college or university with 6 steps from Google for Education

Step 1

Define Your Research Question and Success Criteria







Articulate the specific research question(s) you aim to answer.

For example:

-  How much time do educators save on average per week by using Google Gemini for Education for tasks such as organisation, planning, assessment creation, and student feedback?
-  What is the impact of using Google Gemini for Education on student engagement, understanding of concepts, and learning outcomes in specific subject areas?

Sample Success Criteria

How does Gemini impact:



-  Assessment
-  Resource creat
-  Inclusion
-  Organisation
-  Feedback
-  Communication

Design the Research Methodology

Step 2

Determine the most appropriate research design to answer your questions. A mixed-methods approach combining quantitative and qualitative data collection may be most effective.

Quantitative:




-  **Time Tracking:** Implement a system for educators in both groups to track the time spent on specific tasks (e.g., lesson planning, grading, communication) over a defined period (e.g., 4-8 weeks). This could involve using time-logging software, a Google Form survey, or structured journal.
-  **Engagement Metrics:** Utilise surveys or observation protocols to measure student engagement in the classroom.

Sample Pre-Gemini Pilot Survey

Sample Mid-Gemini Pilot Survey

Sample Post-Gemini Post Survey

Qualitative:

-  **Educator Interviews:** Conduct interviews with educators in the experimental group to gather in-depth insights into their experiences using Gemini, the perceived time savings, and its impact on their teaching practices.
-  **Focus Groups:** Conduct focus groups with educators in the experimental group to gather the perceived time savings, and its impact on their teaching practices.
-  **Artefact Analysis:** Analyse lesson plans, assessment materials, and student work samples from both groups to identify any qualitative differences.

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Step 3

Select your participants



How much time do educators save on average per week by using Google Gemini for Education for tasks such as organisation, planning, assessment creation, and student feedback?



What is the impact of using Google Gemini for Education on student engagement, understanding of concepts, and learning outcomes in specific subject areas?



Ethical Considerations:

Obtain necessary ethical approvals from relevant institutional review boards or ethics committees. Ensure informed consent from all participating staff. Guarantee anonymity and confidentiality of data. For example, a Memorandum of Understanding about the objectives of the pilot.



Step 4

Implement the Intervention and Collect Data

Sample training schedule:

Launch event
Getting Started with Gemini for Education

Training webinars each month
Bring your champions together to share what is working, and what isn't.

Close event



Training and Support: Create a training session or programme on how to effectively use Google Gemini for Education for various teaching tasks.



Your Partner will offer ongoing technical support throughout the trial.

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Step 5

Collect the Data

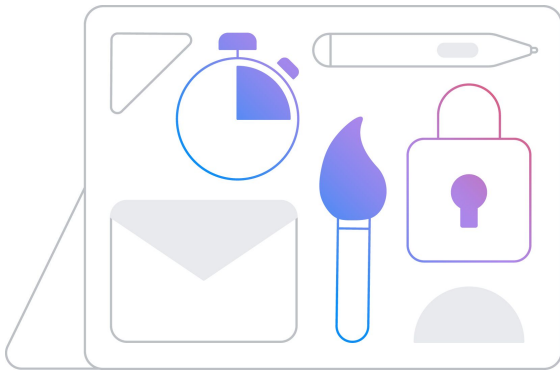
Data Collection:



Plan when you will collect the quantitative data.



Regularly monitor the data collection process to identify and address any potential issues.



Quantitative Analysis:

Use appropriate statistical methods to compare the time spent on tasks, student performance, and engagement metrics between the control and experimental groups. Calculate the average time saved and the magnitude of any significant differences in learning outcomes.

Qualitative Analysis:

You could use analysis of each success criteria to identify recurring themes and patterns in the interview transcripts, focus group discussions, and artefact analysis.

Triangulate the qualitative findings with the quantitative results to provide a more comprehensive understanding.

Step 6

Interpret Findings, Draw Conclusions, and Disseminate Results



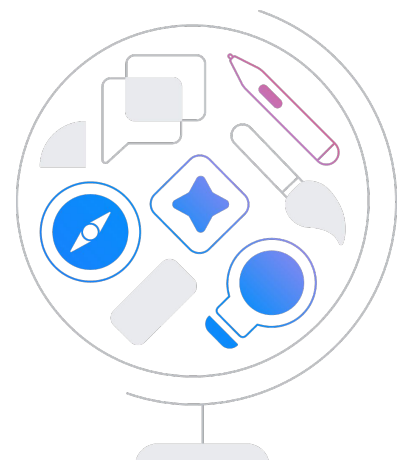
Interpret the data in relation to the initial research questions and hypotheses.



Draw clear and concise conclusions based on the evidence gathered. Discuss the practical implications of the findings for educators, students, and educational institutions. Address the limitations of the study and suggest areas for future research.



Share the research findings through reports, presentations at conferences, and publications in academic journals or educational outlets. Ensure that the findings are communicated in a clear and accessible manner to relevant stakeholders.



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