



Study Protocol:

Understanding Perceptions and Use of AI in K-12 Education Using a Nationally Representative Sample – Parent/Teacher Survey

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SCREENER

PARENT. Are you the parent or legal guardian of any children in the following age ranges? *Please select all that apply.*

RESPONSE OPTIONS:

1. Yes, age 0-1
 2. Yes, age 2-5
 3. Yes, age 6-12
 4. Yes, age 13-17
 5. Yes, age 18 +
 6. No
-

[SHOW IF PARENT=2,3,4,5]

K12PARENT. Are any of your children in grades K-12 (kindergarten - 12th grade)?

RESPONSE OPTIONS:

1. Yes
 2. No
-

[SHOW IF K12PARENT=1]

OLDEST. How old is your oldest child in grade K-12?

[NUMBOX, RANGE 4-20]

EMPLOY. Which statement best describes your current employment status?

RESPONSE OPTIONS:

1. Working - as a paid employee
2. Working - self-employed
3. Not working - on temporary layoff from a job
4. Not working - looking for work
5. Not working - retired
6. Not working - disabled
7. Not working – other

[SHOW IF EMPLOY1=1]

INDUSTRY20. What kind of business or industry best describes your current employer or business?

RESPONSE OPTIONS:

1. Agriculture, Forestry, Fishing and Hunting
2. Mining, Quarrying, and Oil and Gas Extraction
3. Utilities
4. Construction
5. Manufacturing
6. Wholesale Trade
7. Retail Trade
8. Transportation and Warehousing
9. Information
10. Finance and Insurance
11. Real Estate and Rental and Leasing
12. Professional, Scientific, and Technical Services
13. Management of Companies and Enterprises
14. Administrative and Support and Waste Management and Remediation Services
15. Educational Services
16. Health Care and Social Assistance
17. Arts, Entertainment, and Recreation
18. Accommodation and Food Services
19. Other Services (except Public Administration)
20. Public Administration

[SHOW IF INDUSTRY20=15]

K12TEACH. How would you describe your job position?

RESPONSE OPTIONS:

1. Preschool teacher
2. K-12 teacher
3. College or university professor
4. Educational administrator
5. Teacher's assistant
6. Educational support/IT
7. Other, please specify: [TEXTBOX]

Part A. Knowledge and Use of AI

Section 1. AI Knowledge

Q1. What things come to mind when you first think of artificial intelligence (AI)?

[TEXTBOX]

Q2. If you had to tell someone what artificial intelligence (AI) is, what would you say?

[TEXTBOX]

Section 2. AI Use

Q3. Have you heard of any of these tools? *Please select all that apply.*

RESPONSE OPTIONS:

1. Search engines, like Google or Bing
 2. Learning apps or learning games, like Prodigy, STMath, MATHia, or Cognii
 3. Apps that create images or music, like DALL-E, Adobe Firefly, or MusicLM
 4. Apps that answer questions or write text, like ChatGPT, Bing Chat, or Gemini
 5. Apps that listen to you and type what you say to text, like Otter AI or Dragon
 6. Apps that read out loud, like Speechify, Natural Reader, or Epic
 7. Apps that act as virtual friends, like Replika or Snapchat's My AI
 8. Chatbots that help with mental health, like Wysa, Woebot, or Youper
 9. None of the above
-

[SHOW IF K12PARENT = 1]

[GRID]

Q4. Does your family use this tool in your home?

GRID ITEMS:

- A. [SHOW IF Q3=1] Search engines, like Google or Bing
- B. [SHOW IF Q3=2] Learning apps or learning games, like Prodigy, STMath, MATHia, or Cognii
- C. [SHOW IF Q3=3] Apps that create images or music, like DALL-E, Adobe Firefly, or MusicLM
- D. [SHOW IF Q3=4] Apps that answer questions or write text, like ChatGPT, Bing Chat, or Gemini

- E. [SHOW IF Q3=5] Apps that listen to you and type what you say to text, like Otter AI or Dragon
- F. [SHOW IF Q3=6] Apps that read out loud, like Speechify, Natural Reader, or Epic
- G. [SHOW IF Q3=7] Apps that act as virtual friends, like Replika or Snapchat's My AI
- H. [SHOW IF Q3=8] Chatbots that help with mental health, like Wysa, Woebot, or Youper

RESPONSE OPTIONS:

- 1. No
- 2. Maybe
- 3. Yes

[SHOW IF Q3=1,2,3,4,5,6,7,8 AND K12PARENT = 1]
[GRID]

Q5_P. How often has your [INSERT IF NOT MISSING(OLDEST): OLDEST year old /
INSERT IF MISSING(OLDEST): oldest child in K-12 education] used this tool in the past
month (in the home, classroom, or elsewhere)?

GRID ITEMS:

- A. [SHOW IF Q3=1] Search engines, like Google or Bing
- B. [SHOW IF Q3=2] Learning apps or learning games, like Prodigy, STMath, MATHia, or Cognii
- C. [SHOW IF Q3=3] Apps that create images or music, like DALL-E, Adobe Firefly, or MusicLM
- D. [SHOW IF Q3=4] Apps that answer questions or write text, like ChatGPT, Bing Chat, or Gemini
- E. [SHOW IF Q3=5] Apps that listen to you and type what you say to text, like Otter AI or Dragon
- F. [SHOW IF Q3=6] Apps that read out loud, like Speechify, Natural Reader, or Epic
- G. [SHOW IF Q3=7] Apps that act as virtual friends, like Replika or Snapchat's My AI
- H. [SHOW IF Q3=8] Chatbots that help with mental health, like Wysa, Woebot, or Youper

RESPONSE OPTIONS:

- 1. Never
- 2. Less than once a week
- 3. Once a week
- 4. A few times a week
- 5. Every day
- 77. I don't know

[SHOW IF Q3=1,2,3,4,5,6,7,8 AND K12TEACH=2]
[GRID]

Q5_T. How often do your students use this tool in the classroom?

GRID ITEMS:

- A. [SHOW IF Q3=1] Search engines, like Google or Bing
- B. [SHOW IF Q3=2] Learning apps or learning games, like Prodigy, STMath, MATHia, or Cognii
- C. [SHOW IF Q3=3] Apps that create images or music, like DALL-E, Adobe Firefly, or MusicLM
- D. [SHOW IF Q3=4] Apps that answer questions or write text, like ChatGPT, Bing Chat, or Gemini
- E. [SHOW IF Q3=5] Apps that listen to you and type what you say to text, like Otter AI or Dragon
- F. [SHOW IF Q3=6] Apps that read out loud, like Speechify, Natural Reader, or Epic
- G. [SHOW IF Q3=7] Apps that act as virtual friends, like Replika or Snapchat's My AI
- H. [SHOW IF Q3=8] Chatbots that help with mental health, like Wysa, Woebot, or Youper

RESPONSE OPTIONS:

- 1. Never
 - 2. Less than once a week
 - 3. Once a week
 - 4. A few times a week
 - 5. Every day
-

Section 3. AI Awareness

Q6. Which of these tools uses artificial intelligence (AI)? If you don't know that's okay, just make your best guess. *Please select all that apply.*

RESPONSE OPTIONS:

- 1. Search engines, like Google or Bing
 - 2. Learning apps or learning games, like Prodigy, STMath, MATHia, or Cognii
 - 3. Apps that create images or music, like DALL-E, Adobe Firefly, or MusicLM
 - 4. Apps that answer questions or write text, like ChatGPT, Bing Chat, or Gemini
 - 5. Apps that listen to you and type what you say to text, like Otter AI or Dragon
 - 6. Apps that read out loud, like Speechify, Natural Reader, or Epic
 - 7. Apps that act as virtual friends, like Replika or Snapchat's My AI
 - 8. Chatbots that help with mental health, like Wysa, Woebot, or Youper
-

Section 4. Use of Related Digital Technologies

Q7. On an average day, how many hours total do you spend online or on your phone? Include hours spent for work.

RESPONSE OPTIONS:

1. None
 2. Less than 1 hour
 3. 1-2 hours
 4. 3-5 hours
 5. 6-8 hours
 6. 9 or more hours
-

Part B Perceptions and Behavior

Section 1. Perceptions of AI Risks & Opportunities

[GRID]

Q8. The following questions are about Generative AI. Generative AI is a type of smart computer that creates new things, like art, music, or writing, without help from humans by learning from lots of examples. Some examples of generative AI that you may have heard of are ChatGPT, Bing chat, and DALL-E. In these next questions, we will ask how much you agree or disagree with statements about generative AI technologies like ChatGPT, Bing Chat, and DALL-E.

Generative AI will...

GRID ITEMS:

- A. Improve how children learn at school.
- B. Improve children's health.
- C. Stop children from being able to solve problems on their own.
- D. Cause children to have problems with their teachers or parents.
- E. Stop children from interacting with friends.
- F. Help children improve skills outside of school.
- G. Make it easier for children to cheat at school.
- H. Help children learn things that they will need to know in their future careers.
- I. Help children ask questions that they don't feel comfortable asking adults.
- J. Spread false or wrong information.
- K. Learn things about children that may be private.
- L. Help children when they're feeling lonely.

RESPONSE OPTIONS:

1. No
 2. Maybe
 3. Yes
-

Section 2. Use of ChatGPT

Q9. Have you ever used ChatGPT?

RESPONSE OPTIONS:

1. No
 2. Maybe
 3. Yes
-

[SHOW IF Q9=2,3 AND K12PARENT=1]

Q10_P. Have you used ChatGPT to help with...? *Please select all that apply.*

RESPONSE OPTIONS:

1. Your child/ren's homework
 2. Planning learning activities at home
 3. Parenting advice
 4. Information about your child/ren's health or development
 5. Providing support for child/ren with disabilities
 6. Supporting your child/ren's mental or emotional health
 7. Something else (specify): [TEXTBOX]
-

[SHOW IF Q9=2,3 AND K12TEACH=2]

Q10_T. As a teacher, have you used ChatGPT to help with...? *Please select all that apply.*

RESPONSE OPTIONS:

1. Lesson planning
2. Building background knowledge for lessons and classes
3. Generating creative ideas for classes
4. Grading or reviewing students' work
5. Communicating with students, parents, and colleagues

6. Assisting students with learning differences
 7. Supporting students' mental health
 8. Something else (specify): [TEXTBOX]
-

[SHOW IF Q9=2,3]

Q11. How accurate do you think the information is that you get from ChatGPT and other types of generative AI on a scale of 0-100%?

[SLIDER SCALE; RANGE 0-100]

Section 3. AI integration in Education

[SHOW IF K12TEACH=2]
[GRID]

Q12_T. Please answer no, maybe, or yes to the following statements about your use of AI technologies in education.

GRID ITEMS:

- A. Using AI technologies in K-12 education is important.
- B. All children should use AI technologies in their classrooms.
- C. Using AI technologies makes students more motivated to learn.
- D. Using AI technologies makes learning more enjoyable for students.
- E. I encourage my students to use AI technologies for learning.
- F. I try to use AI technologies in the classroom.
- G. I am eager to participate in trainings about the use of AI in education.
- H. AI technologies help me better design my curriculum.
- I. AI technologies help me integrate the curriculum and real-world learning.
- J. AI technologies enhance students' learning.

RESPONSE OPTIONS:

1. No
 2. Maybe
 3. Yes
-

[SHOW IF K12PARENT=1]
[GRID]

Q12_P. Please answer no, maybe, or yes to the following statements.

GRID ITEMS:

- A. Using AI technologies in K-12 education is important.
- B. All children should use AI technologies in their classrooms.
- C. Using AI technologies makes children more motivated to learn.
- D. Using AI technologies makes learning more enjoyable for children.
- E. I encourage my child/ren to use AI technologies for learning.
- F. I try to use AI technologies with my child/ren for learning at home.
- G. I expect my child/ren's teacher to participate in training about the use of AI in education.
- H. AI technologies help teachers better design their curriculum.
- I. AI technologies help teachers integrate the curriculum and real-world learning.
- J. AI technologies enhance my child/ren's learning.

RESPONSE OPTIONS:

- 1. No
 - 2. Maybe
 - 3. Yes
-

Part C. Well-Being

Section 1. Well-being

[GRID]

Q13. During the past month, how often did you feel...?

GRID ITEMS:

- A. Nervous
- B. Hopeless
- C. Restless or fidgety
- D. That everything was an effort
- E. So depressed that nothing could cheer you up
- F. Worthless

RESPONSE OPTIONS:

- 1. Never
- 2. A little of the time
- 3. Some of the time
- 4. Most of the time

5. All of the time

Section 2. Self-Efficacy

[SHOW IF K12PARENT=1]

[GRID]

Q14. Please state how much you disagree or agree with the following statements.

GRID ITEMS:

- A. Even though I may not always manage it, I know what I need to do with my child.
- B. I am able to do the things that improve my child's behavior.
- C. I can make an important difference to my child.
- D. In most situations, I know what to do to ensure my child behaves.
- E. The things I do make a difference to my child's behavior.

RESPONSE OPTIONS:

- 1. Strongly Disagree
- 2. Disagree
- 3. Neutral
- 4. Agree
- 5. Strongly Agree

[SHOW IF K12TEACH=2]

[GRID]

Q15. Please indicate your opinion about each of the statements below.

GRID ITEMS:

- A. How much can you do to motivate students who show low interest in school work?
- B. How much can you do to get students to believe they can do well in school work?
- C. How much can you do to help your students value learning?
- D. To what extent can you craft good questions for your students?
- E. How much can you use a variety of assessment strategies?
- F. To what extent can you provide an alternative explanation or example when students are confused?
- G. How much can you assist families in helping their children do well in school?
- H. How well can you implement alternative strategies in your classroom?

RESPONSE OPTIONS:

1. Nothing
2. Very little
3. Some influence
4. Quite a bit
5. A great deal

Part D. Demographics

You are almost done with the survey, we have just a few more questions about yourself.

CHILDNUM. How many children do you have?

[NUMBOX, RANGE 0-10]

[SHOW IF CHILDNUM=1-10]

[NUMBOX, RANGE 0-50]

CHILDAGE. How old are your children?

ITEMS:

- A. [SHOW IF CHILDNUM>0] Child 1 age (years) [NUMBOX, RANGE 0-50]
 - B. [SHOW IF CHILDNUM>1] Child 2 age (years) [NUMBOX, RANGE 0-50]
 - C. [SHOW IF CHILDNUM>2] Child 3 age (years) [NUMBOX, RANGE 0-50]
 - D. [SHOW IF CHILDNUM>3] Child 4 age (years) [NUMBOX, RANGE 0-50]
 - E. [SHOW IF CHILDNUM>4] Child 5 age (years) [NUMBOX, RANGE 0-50]
 - F. [SHOW IF CHILDNUM>5] Child 6 age (years) [NUMBOX, RANGE 0-50]
 - G. [SHOW IF CHILDNUM>6] Child 7 age (years) [NUMBOX, RANGE 0-50]
 - H. [SHOW IF CHILDNUM>7] Child 8 age (years) [NUMBOX, RANGE 0-50]
 - I. [SHOW IF CHILDNUM>8] Child 9 age (years) [NUMBOX, RANGE 0-50]
 - J. [SHOW IF CHILDNUM>9] Child 10 age (years) [NUMBOX, RANGE 0-50]
-

[SHOW IF K12TEACH=2]

GRADE. What grades do you teach? *Please select all that apply.*

RESPONSE OPTIONS:

1. Kindergarten
 2. 1st grade
 3. 2nd grade
 4. 3rd grade
 5. 4th grade
 6. 5th grade
 7. 6th grade
 8. 7th grade
 9. 8th grade
 10. 9th grade
 11. 10th grade
 12. 11th grade
 13. 12th grade
 14. Not currently teaching
-

[SHOW IF K12TEACH=2 AND GRADE =1-13]

SCHOOL. What kind of school are you currently teaching in?

RESPONSE OPTIONS:

1. Public (traditional)
 2. Public Charter
 3. Public Magnet
 4. Public Vocational
 5. Private/Independent
 6. Religious/Parochial
 7. GED program
 8. Homeschool
 9. Other, please specify: [TEXTBOX]
-

GENDER1. What sex were you assigned at birth, on your original birth certificate?

RESPONSE OPTIONS:

1. Male
 2. Female
-

GENDER2. How do you describe yourself?

RESPONSE OPTIONS:

1. Male
 2. Female
 3. Transgender
 4. Do not identify as male, female or transgender
-

GENDER3. Would you say you are?

[SHOW IF GENDER2= 3]

RESPONSE OPTIONS:

1. Transgender, male to female
 2. Transgender, female to male
 3. Transgender, gender non-conforming
 4. Other (please specify): [TEXTBOX]
-

[GRID]

SELF_DIFF. Do you have difficulty with...?

GRID ITEMS:

- A. Seeing, even if wearing glasses?
- B. Hearing, even if using a hearing aid?
- C. Walking or climbing steps?
- D. Remembering or concentrating?
- E. Self-care (such as washing all over or dressing)?
- F. Communicating?

RESPONSE OPTIONS:

1. Not at all
 2. A little
 3. A lot
-

[SHOW IF K12PARENT=1]

[GRID]

CHILD_DIFF. Do any of your children have difficulty with...?

GRID ITEMS:

- A. Seeing, even if wearing glasses?
- B. Hearing, even if using a hearing aid?
- C. Walking or climbing steps?
- D. Remembering or concentrating?
- E. Self-care (such as washing all over or dressing)?
- F. Communicating?

RESPONSE OPTIONS:

- 1. Not at all
- 2. A little
- 3. A lot