

For a 6th grader (around ages 11–12), the best AI learning resources emphasize experimentation, creativity, and simple explanations before diving into coding or math. Here's a curated list organized by category.

Beginner AI learning platforms

- Google Teachable Machine – Train image, sound, and pose recognition models without writing code. One of the easiest introductions to machine learning.
- [Google Teachable Machine](#)
- Machine Learning for Kids – Build AI projects using drag-and-drop programming or Python.
- [Machine Learning for Kids](#)
- Elements of AI – A free beginner-friendly AI course with simple explanations suitable for motivated middle school students.
- [Elements of AI](#)
- Code.org – Offers AI-themed activities and introductory lessons.
- [Code.org](#)

Interactive AI chatbots

- [ChatGPT](#)
 - Ask questions
 - Explain homework
 - Practice coding
 - Brainstorm projects
- [Google Gemini](#)
- [Microsoft Copilot](#)

A good habit is to compare answers from different AI assistants and think critically about where they agree or differ.

Learn programming

Programming isn't required to start learning AI, but it's very helpful.

- Scratch
- [Scratch](#)
- Blockly Games
- [Blockly Games](#)
- Khan Academy (Programming)
- [Khan Academy](#)
- Replit
- [Replit](#)

YouTube channels

- Crash Course
- TED-Ed
- Code.org
- Khan Academy
- SciShow

These channels explain AI, coding, science, and technology in an engaging way.

AI art and creativity

- [Canva AI](#)
- [Adobe Express](#)
- [Microsoft Designer](#)

Use these to create posters, illustrations, presentations, and graphics with AI assistance.

Robotics

- LEGO Education
- [LEGO Education](#)
- micro:bit
- [micro:bit](#)
- Sphero
- [Sphero](#)

AI games

- Quick, Draw!
- [Quick, Draw!](#)
- Semantris
- [Semantris](#)
- AutoDraw
- [AutoDraw](#)

Books

- AI + You
- Hello Ruby: Journey Inside the Computer
- How AI Works
- The Manga Guide to Artificial Intelligence

Safe places to ask questions

- [ChatGPT](#)
- [Khan Academy](#)
- Ask a teacher or librarian.
- Work on projects with friends or in a coding club.

Fun beginner projects

1. Train a model to recognize different kinds of leaves using Teachable Machine.
2. Make a Scratch game with an AI-powered chatbot.
3. Build a quiz generator with ChatGPT.
4. Create AI-generated artwork and write a story about it.
5. Program a micro:bit to collect sensor data.
6. Make a homework helper that explains math problems.
7. Design a simple website about AI.
8. Build a rock-paper-scissors game using a webcam.
9. Create a "guess the animal" chatbot.
10. Explore how image recognition works by classifying everyday objects.