An AlphaPlus outline of Raspberry Pi resources

Raspberry Pi Experience AI Series

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Experience AI is an educational programme that offers resources on artificial intelligence and machine learning for teachers and learners.

Developed in collaboration by the Raspberry Pi Foundation and Google DeepMind, the programme supports teachers understand and teach learners about AI.

These teacher training and curriculum resources are designed for K-12 students. We have lightly reviewed the lessons and they seem appropriate for adult learners. The language, visuals, analogies and examples are relevant to adult learners. In some cases the activities require reading materials that may not be accessible to all literacy learners. In our assessment, the adaptation work for adult literacy instructors would be to redesign some activities to support emergent readers.

Courses for teachers

Online course: Understanding AI for educators

A free, three-module course helps teachers learn about different types of tools that use artificial intelligence (AI) and how they may affect the world of work and learning.

In the course you will:

- discover the types of problems that AI tools can help to solve
- try out some tools for yourself
- consider how you can discuss the risks, opportunities, and ethical considerations surrounding AI technologies with learners

You need to create an account to access the course.

You will be asked the following questions:
How will you use the lesson resources?

- To teach others in a formal education setting, such as a school
- To teach others in a non-formal setting, such as a computing club
- For my own learning

Where will you use the lesson resources?

- Country
- Postal code
- Name of organisation (e.g. school name or club name) (Optional)

Approximately how many young people aged under 18 will you teach with the Experience AI lesson resources in the next 18 months?

Courses for learners

Experience AI is a set of free lessons that have everything teachers need to deliver AI and machine learning sessions, including lesson plans, slide decks, worksheets, glossaries and videos.

The lesson plans, slide decks, worksheets and glossaries come in several formats. You can

- download individual files in Microsoft Office formats (PowerPoint and Word)
- download individual files as PDFs
- copy Google Drive formats (Slides and Docs) to your own Google Drive
- download a .zip file with all the files in Microsoft Office formats (PowerPoint and Word)

Videos can be downloaded, viewed on the site or shared to a Google Drive.

Curriculum resources for learning about AI

Module 1: Understanding AI – 4 Lessons

Through the 4 lessons in Module 1, learners explore what AI is, how Machine Learning models are developed and trained, and how these technologies are shaping the world around them. They will also examine the risks and responsibilities that come with AI systems, including fairness and bias in data, and the ethical challenges involved in building these rapidly evolving technologies.

Module 2: Solving problems with AI – 5 Lessons

Through the 5 lessons in Module 2, learners understand the difference between generative and predictive AI, and follow the AI project lifecycle to design, build, and evaluate their own machine learning model. They will also consider ethical issues, apply user-focused design principles, and discover career pathways in AI.

Discovering AI (8-12) – 1 Lesson

This lesson introduces artificial intelligence (AI) as a set of computer tools created by humans to help solve difficult problems. Together with your students, you will explore the core concept behind AI: that modern AI systems work by detecting patterns in data (such as text, images, or numbers) and using those patterns to generate predictions.

Students will understand the prediction pathway of ‘data–patterns–predictions’ and identify various real-world uses of AI systems.

Discovering AI (14-16) – 1 Lesson

In this lesson, students explore what artificial intelligence is and how AI systems use data to make predictions. They first consider a range of everyday technologies and decide whether or not they use artificial intelligence before being introduced to the shared characteristics of AI systems. Students discover how patterns in data can be used to predict missing information and apply their understanding to real-world examples of AI systems. Finally, students complete a written activity to describe how a familiar technology could be redesigned to use an AI system.

Themed lessons

AI and the Environment

Flood Forecasting – 4 lessons
These resources allow students to explore how AI systems can be used to predict flooding.

Ecosystems and AI – 1 lesson
Explore how artificial intelligence applications are supporting animal conservation.

AI and critical thinking

AI and Social Media – 3 Lessons
Explore how social media systems respond to user interactions using a classroom simulation.

Using LLMs strategically for learning – 5 lessons
Across five lessons, learners explore how large language models work, how to write strong prompts, and how to evaluate the reliability of AI-generated outputs.

AI safety – 3 Lessons

Equip learners with the knowledge and skills to responsibly and safely navigate the challenges associated with AI, from data privacy, misinformation, and fact-checking, to deepfakes and generative AI.

AI and ethics

AI Detectives – 3 Lessons
AI Detectives: The case of the clever claim

Students play the role of detectives to investigate how AI products are described in marketing claims.
AI Detectives: The case of the blame game
Students take on the role of detectives to investigate a decision that was made after an AI tool produced a statement about the authenticity of a student's work.
AI Detectives: The case of the mystery messenger
Students work as a team to roleplay detectives investigating a travel company's use of an AI chatbot.

AI Safety Manager Challenge
In this lesson, students take on the role of AI safety managers, evaluating whether a proposed AI application should be approved for use.

This outline prepared by AlphaPlus as a follow-up to a workshop series AI in daily life: Exploring Learning Resources delivered in February 2026.

After the workshop, we posted the curriculum resources in our library: How can I help learners understand and use AI?

We discovered these open education resources after our workshop and wanted to share them with our community of adult education teachers.

If you have questions, concerns or suggestions, please contact Tracey Mollins.

AlphaPlus