Learning to Learn AI… with AI

Mind Shifts & Techniques For the Future of Work

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PARTNER

BUILD

ITERATE

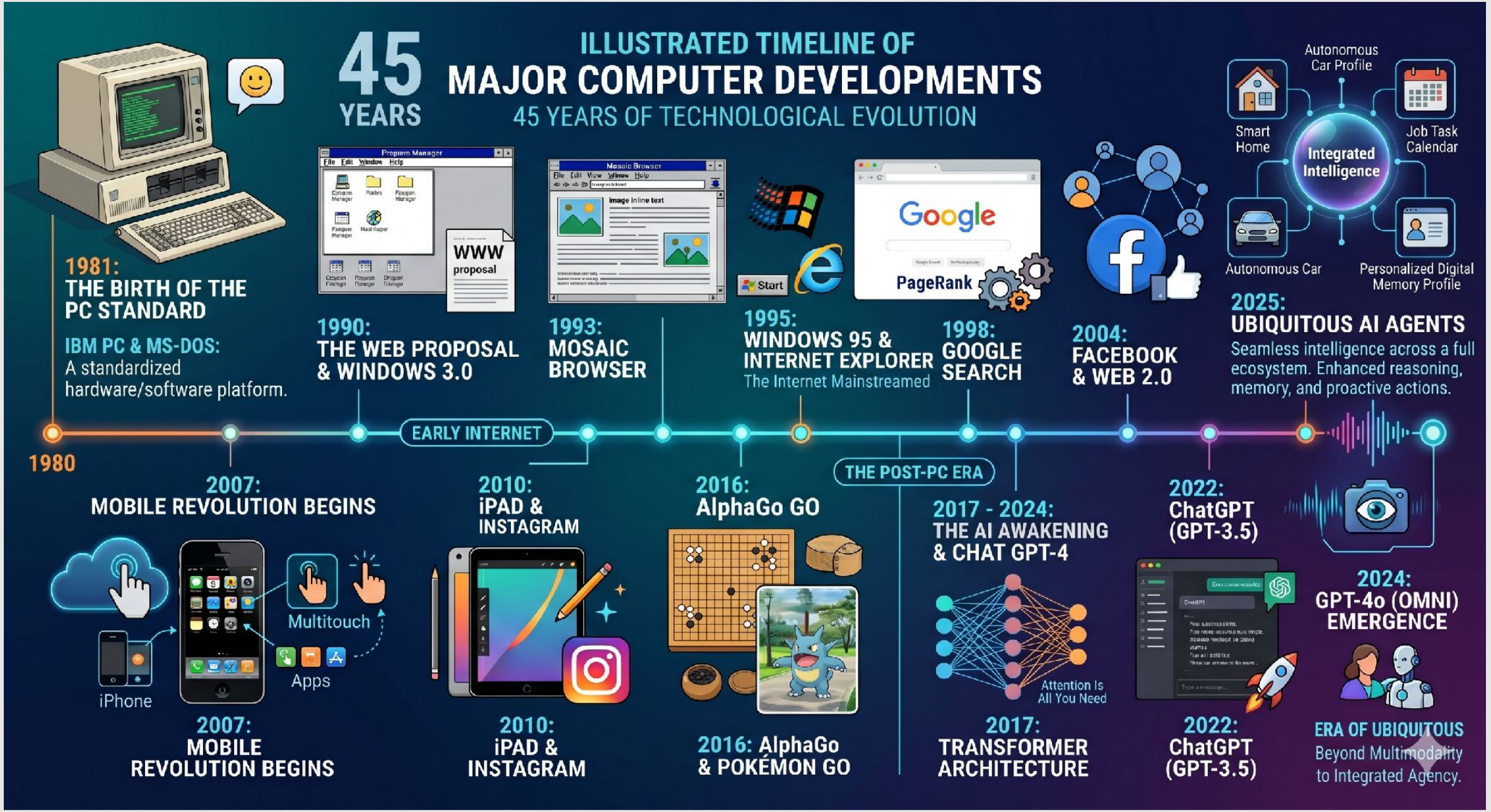
REVISE

REFLECT

MORE...

My Perspective...

- Michael Mino, AI Education Specialist, Makerspace Teacher/Director, Consultant
- Over 40 years of K–16 CTE and Ed-Tech experience in public & private education as a teacher, specialist, & consultant
- From early PCs to today's AI-powered tools and robots
- My goal for today: Inform and Inspire...


45 YEARS
ILLUSTRATED TIMELINE OF
MAJOR COMPUTER DEVELOPMENTS
45 YEARS OF TECHNOLOGICAL EVOLUTION
1980
1981:
THE BIRTH OF THE PC STANDARD
IBM PC & MS-DOS:
A standardized hardware/software platform.
1990:
THE WEB PROPOSAL & WINDOWS 3.0
WWW proposal
1993:
MOSAIC BROWSER
Image Inline text
1995:
WINDOWS 95 & INTERNET EXPLORER
The Internet Mainstreamed
Start
1998:
GOOGLE SEARCH
Google
PageRank
2004:
FACEBOOK & WEB 2.0
2025:
UBIQUITOUS AI AGENTS
Seamless intelligence across a full ecosystem. Enhanced reasoning, memory, and proactive actions.
Autonomous Car Profile
Smart Home
Integrated Intelligence
Job Task Calendar
Autonomous Car
Personalized Digital Memory Profile
EARLY INTERNET
THE POST-PC ERA
2007:
MOBILE REVOLUTION BEGINS
iPhone
Multitouch
Apps
2010:
iPAD & INSTAGRAM
2016:
AlphaGo GO
2017 - 2024:
THE AI AWAKENING & CHAT GPT-4
Attention Is All You Need
2022:
ChatGPT (GPT-3.5)
2024:
GPT-4o (OMNI) EMERGENCE
ERA OF UBIQUITOUS
Beyond Multimodality to Integrated Agency.
2007:
MOBILE REVOLUTION BEGINS
2010:
iPAD & INSTAGRAM
2016: AlphaGo & POKÉMON GO
2017:
TRANSFORMER ARCHITECTURE
2022:
ChatGPT (GPT-3.5)

FROM TOOLS THAT FOLLOW INSTRUCTIONS TO AI THAT UNDERSTANDS INTENT

Old Tech vs. LLM AI

FEATURE	OLD TECH: CALCULATOR ERA	LLM AI: BRAIN ERA
1 HOW IT WORKS	Follows rules written by humans	Learns patterns from massive amounts of data
2 RESPONSE STYLE	Fixed and predictable	Flexible, creative, and adaptive
3 UNDERSTANDING	Literal; depends on exact commands or keywords	Contextual; understands meaning, tone, and intent
4 PROBLEM SOLVING	Designed for one specific task	Can handle many types of tasks across subjects
5 INTERACTION	Uses menus, buttons, and commands	Uses natural conversation
6 ROLE	Passive tool waiting for instructions	Active assistant that can plan, generate, and complete tasks

FROM LITERACY TO FLUENCY

Two Related Goals, One Practical Destination

AI Literacy: Understanding

- What AI is and how it works
- Where it is useful — and where it fails
- Accuracy, bias, privacy, and limits
- The vocabulary to talk about it

AI Fluency: Doing

- Using AI responsibly in authentic work
- Planning, projects, troubleshooting, writing
- Iterating, verifying, and refining output
- Keeping a human in the loop — every time

Literacy is knowing. Fluency is using. The destination is fluency.

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THE CORE IDEA

Learning to Learn AI — with AI

The fastest way to build AI fluency is to use AI as the partner that helps you learn it.

THE OLD MINDSET		THE MIND SHIFT
AI gives me the answer	→	AI is a partner I think and build with
I have to know everything first	→	I learn by doing, alongside AI
Using AI is cheating	→	I am responsible for judgment & quality
One perfect prompt	→	It's An iterative conversation, literally

ANCHOR FRAMEWORK

Learning to Learn AI — The Practices

Partner, don't outsource: Treat AI as a thinking and build partner, you stay the decision-maker.

Describe clearly: Prompting is a skill: explain the goal, context, and constraints.

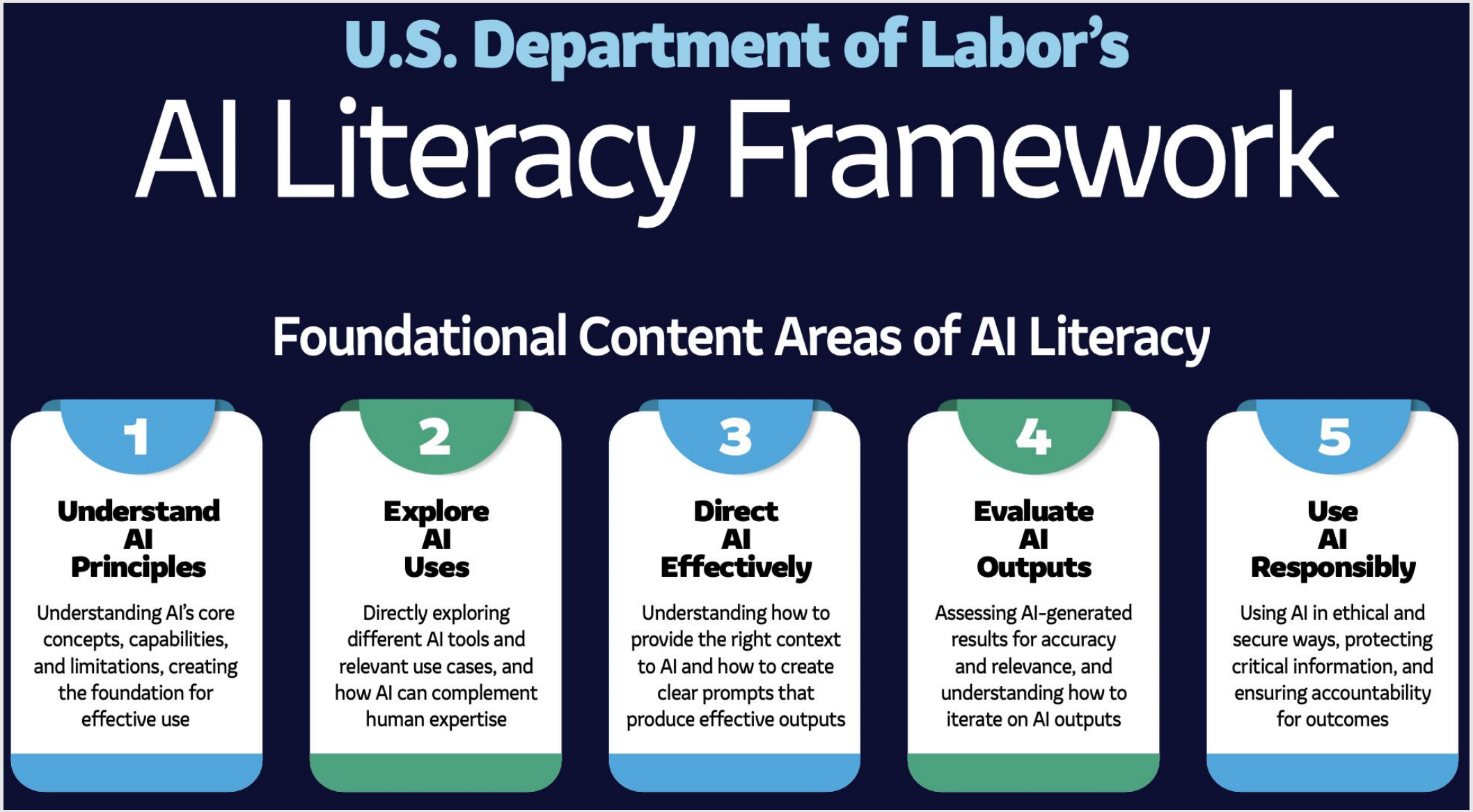
Iterate by doing: Learn through cycles, try, review, refine, repeat.

Discern & verify: Question the output; check facts, sources, and safety before you use it.

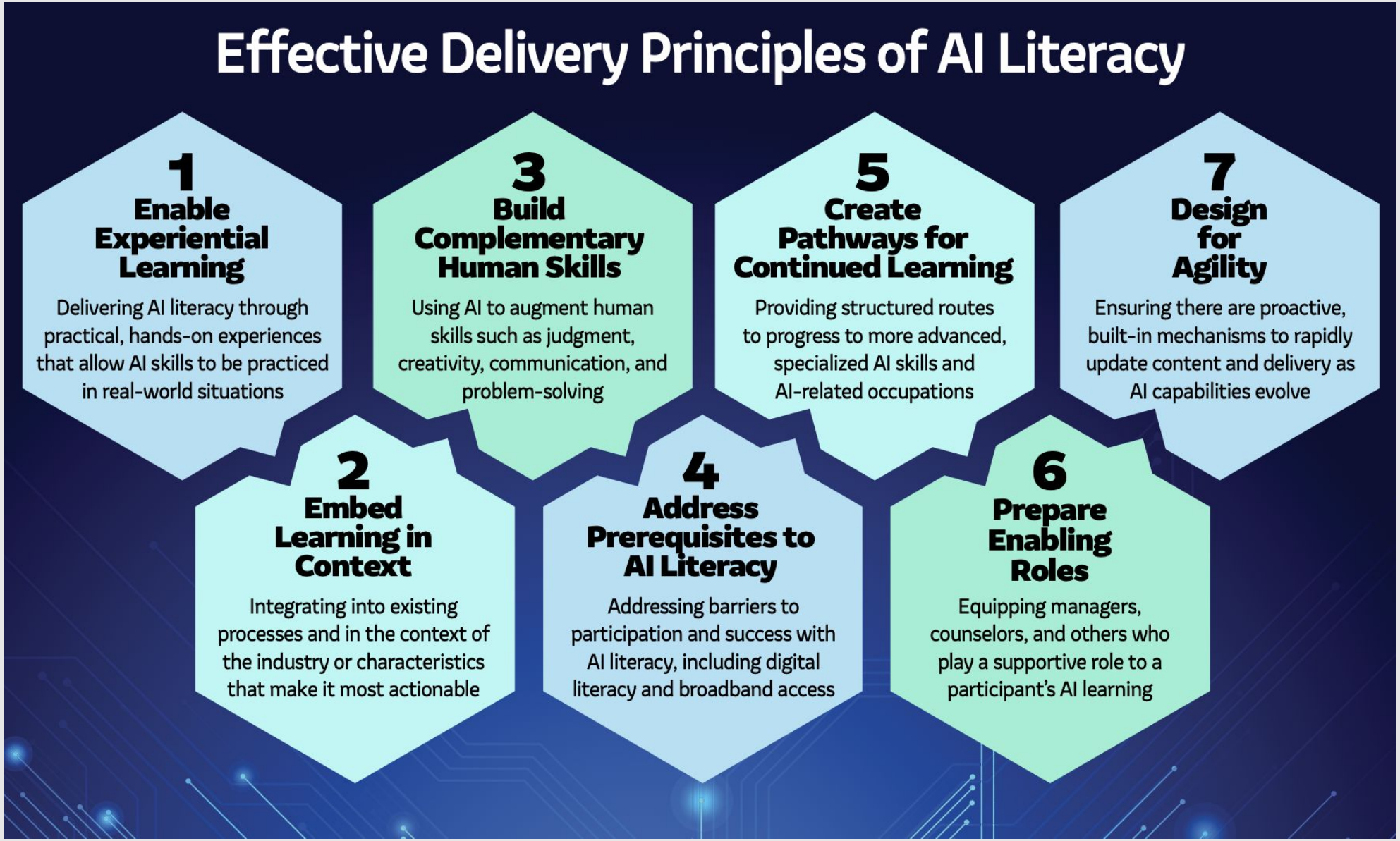
Reflect & transfer: Notice what worked, name it, and carry it to the next task.

Stay curious: Keep learning to learn, the tools will keep changing.

ANCHOR FRAMEWORK



ANCHOR FRAMEWORK



THE ALIGNMENT

DOL AI literacy × Learning-to-Learn practices

The DOL workforce framework and the learning practices reinforce each other.

DOL AI LITERACY AREA	LEARNING-TO-LEARN PRACTICE
Understand AI	Stay curious; build mental models of how AI works
Use AI Tools	Partner, don't outsource; describe clearly
Evaluate AI	Discern & verify; iterate by doing
Use AI Responsibly	Keep the human in the loop; reflect on impact
Apply AI at Work	Transfer practices into authentic CTE projects

DEMO

Gemini Canvas — Multimodal

Why it matters

- Shows AI as a collaborator for planning, drafting, revising, and reformatting.
- Makes iteration visible: students can improve tone, length, structure, and clarity in context.

Live Demo

- Start from a rough idea and turn it into a clean outline, report, slide deck, or app concept.
- Highlight a section and ask for a revision so AI can act as an editor, not just a generator.

DEMO

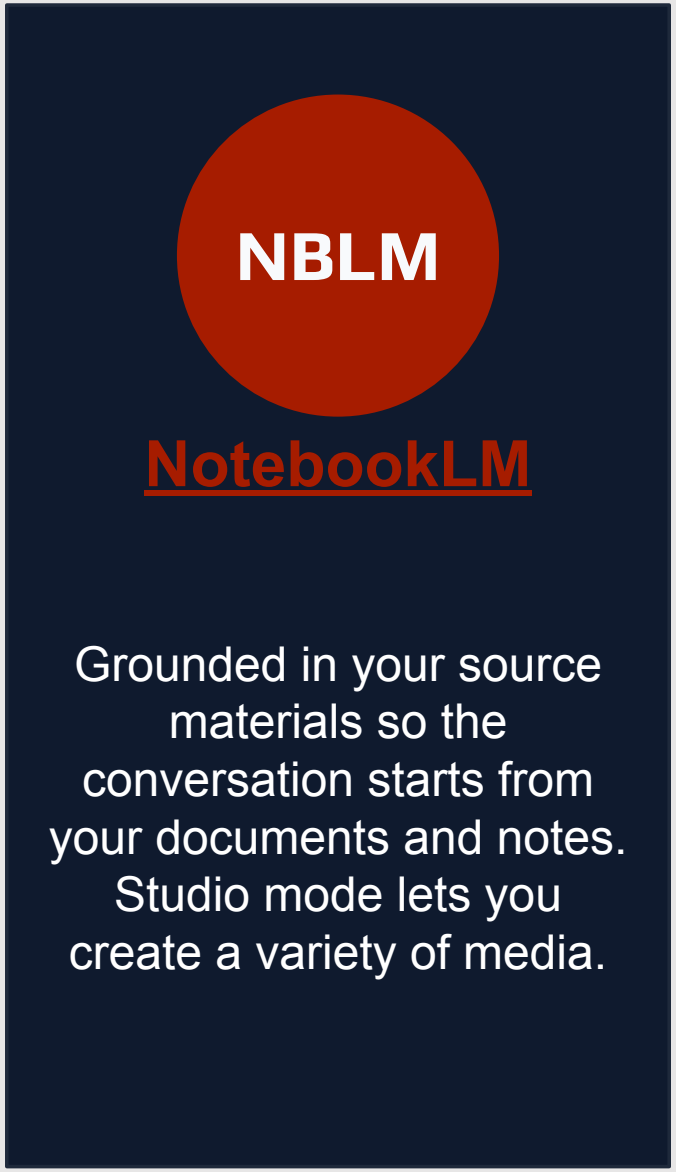
Google NotebookLM - research & multimedia study support

Why it matters

- Turns readings, notes, and documents into a source grounded multimedia learning partner.
- Useful for summarizing, questioning, reviewing, visualizing, and building multimedia presentations from class materials.

Live Demo

- Open a source set, ask a focused question, and the AI citations keep the answer tied to the material.
- Generate a quick study guide, FAQ, or “teach this to a beginner” explanations in a variety of media artifacts.



DEMO

Google Vids — AI video Platform

Why it matters

- A practical classroom-to-workforce AI use case: explainers, pitches, onboarding, and project updates.
- Helps students connect script, storyboard, visuals, and voice into one communication product.

Live Demo

- From a prompt or outline, to the storyboard, script, voiceover, or editing aids AI is the assistant.
- Connects how students can present a process, product, or reflection using both AI generated and their own sources.

Google Vids

An AI-powered Workspace tool for making polished video communication easier to create and share, using your own or AI generated content.

DEMO

Google FX / Labs — creative AI experiments for media and more

Why it matters

- Expands the applications of AI beyond text and chat into multimodal creativity.
- Connects especially well to design, communications, digital media, and storytelling pathways.

Live Demo

- Tour the hub and demonostrate the kinds of creative tools available such as Genie, Flow, Whisk, or MusicFX.
- Emphasize experimentation: students can explore ideas fast, then reflect on quality, ethics, and audience.

Google FX Labs

A creative hub for trying multimodal AI experiences across image, music, video, and world-building. Great for creative exploration, concept development, and showing the breadth of emerging AI tools.

IN THE SHOP & LAB

AI Across CTE Pathways

AI is already impacting the world of work… including the skilled trades.

Automotive

Explain diagnostic codes; compare options; draft customer explanations.

Construction

Interpret plans; estimate materials; sequence steps; review safety.

Health Assisting

Practice patient communication; review terms privacy protected.

Adv. Manufacturing

Troubleshoot processes; document procedures; support quality control.

Programming & Robotics

Use AI as a coding partner, debug assistant, and project planner.

Design & Visual Comm.

Ideate, prototype, and critique; develop a creative workflow.

THE BOTTOM LINE

"AI will not replace skilled tradespeople, but trades people who know how to use AI will have an advantage."

Prepare students to shape the future of work… not just adapt to it!

Three takeaways for educators

- Teach AI as a partner for learning, thinking and creating, not as a shortcut to answers.
- Give students practice critiquing, directing, checking, and improving AI outputs.
- Start small: choose one tool, one task, and one shop or classroom project to try next.

Challenge to leave with

What is one assignment, workflow, or student product that would become more powerful if AI helped with the first critique or the next revision?

QUESTIONS? COMMENTS? DISCUSSION?

Contact JFY to Schedule a Consultation!

Info@JFYnet.org

SCAN ME!

Schedule a FREE consult.

617-657-4485

Thank You!

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