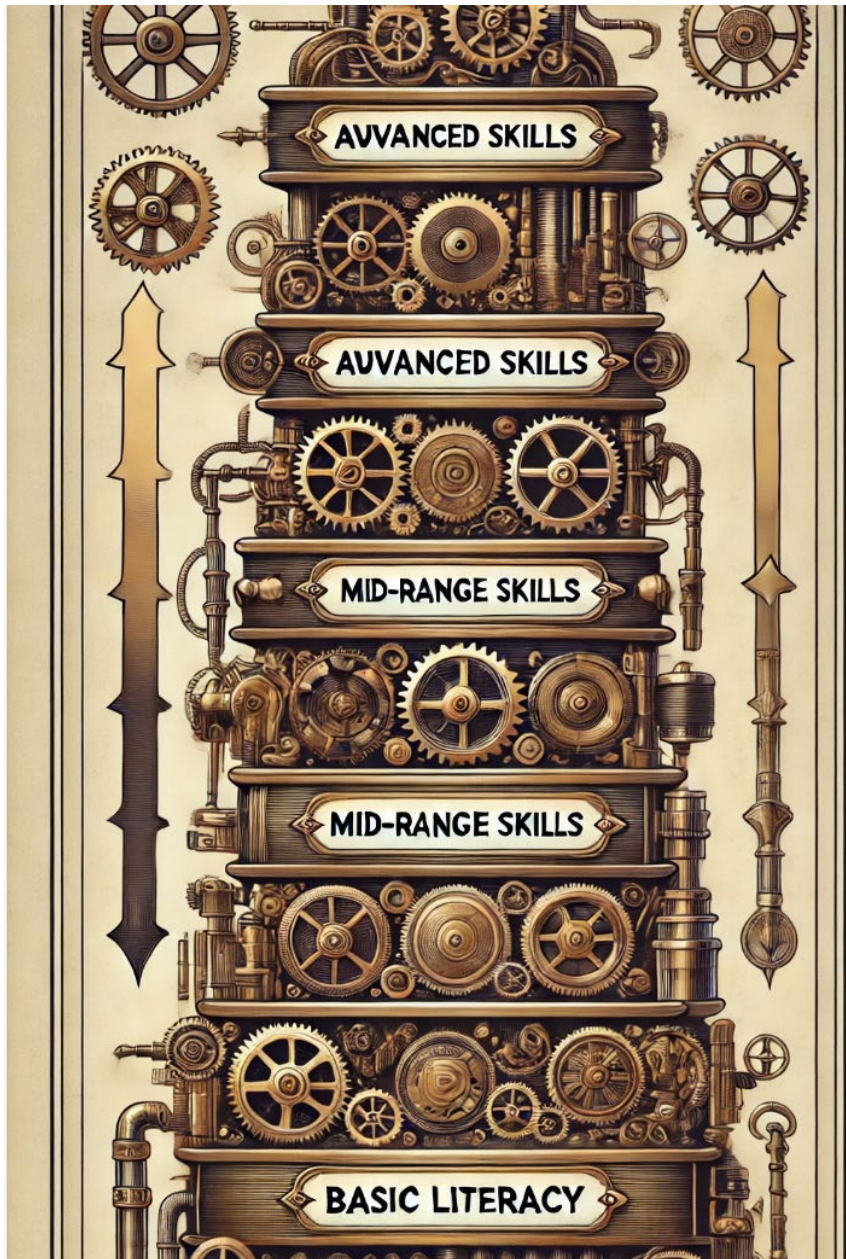


AI-infused assignments

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Understanding Meta-AI Skills

Meta-AI skills as the gap between what AI can and cannot do

Exercise: Ask AI to write a paper for your conference or a journal

A typical college essay makes meta-AI skills invisible.

Raise expectations

Start with extra credit, or alternative assignment, build confidence

Shift to Authentic Assessments

1. Introduction to Psychology: Case Study Analysis of a Psychological Disorder
2. American Literature: Literary Analysis Essay on a Classic Novel
3. Principles of Marketing: Marketing Campaign Proposal for a New Product
4. World History: Historical Exhibit or Documentary Script
5. Biology: Research Proposal or Grant Application
6. Introduction to Sociology: Policy Brief on a Social Issue
7. Environmental Science: Environmental Impact Assessment or Sustainability Project Proposal
8. Political Science: Policy Analysis Paper or Political Campaign Strategy
9. Introduction to Philosophy: Philosophical Dialogue or Applied Ethics Case Study
10. Economics: Economic Feasibility Study or Business Investment Analysis
11. Human Anatomy and Physiology: Patient Case Report or Health Education Materials
12. Cultural Anthropology: Cultural Heritage Preservation Plan or Museum Exhibit Proposal
13. Introduction to Computer Science: Software Application or Website Development Project
14. Art History: Curatorial Project or Art Conservation Proposal
15. Statistics: Data Visualization Project or Statistical Consulting Report



Prompting Skills and Discipline Content

The connection between well-crafted prompts and deep content knowledge

Moving from basic to rich prompts for better AI outputs

Types of AI tasks

- Search and summary of information
- Brainstorming
- Structuring text (outline)
- Thesis development
- Supporting thesis with evidence or argument
- Source interrogation
- Writing
- Editing
- Feedback

Training Prompting and Discerning Thinking



Explicitly teaching students how to prompt



Explicitly teaching prompt iteration



Explicitly teaching Output evaluation: Discerning thinking

Examples of AI-required assignments

- 1.** Write a paper with AI. Turn in all your prompts, your last AI-produced text, and your final version with tracked changes. Assess development skills (must show growth), discerning thinking.
- 2.** Prompt competition. Small teams develop content. All class votes on the best team content. Analyze the best prompts as a class discussion; reconstruct the characteristics of the rich prompt. Assess prompt development skills.
- 3.** Article or source interrogation. Show how to upload a scholarly paper of a classic source. Show how to interrogate AI. Students submit their best question and AI answer. Critique selected answers. Assess both prompt skills and critical thinking.
- 4.** Background research race. Give students a topic which they are unlikely to have prior knowledge. Ask them to read up on the topic and turn in summaries. Then ask to exchange summaries find factual errors, discuss verification strategies. Assess critical thinking.
- 5.** Extract the best short story out of ChatGPT in 15 or fewer words prompt. Critique the limitations of AI writing. Assess discerning thinking.
- 6.** Build, fine-tune and evaluate a custom AI-bot. A course project for student teams.



The end goal

Moving towards a blended intelligence approach, revising learning outcomes

Equipping students with the skills for AI-enhanced learning and professional environments

Continuous refinement of AI-positive pedagogies and assessments