

## CORE K-12 PATHWAY | HIGH SCHOOL

# AI Innovators

## Responsible AI Design Portfolio

Research. Design. Solve. Lead.

Grades 9-12

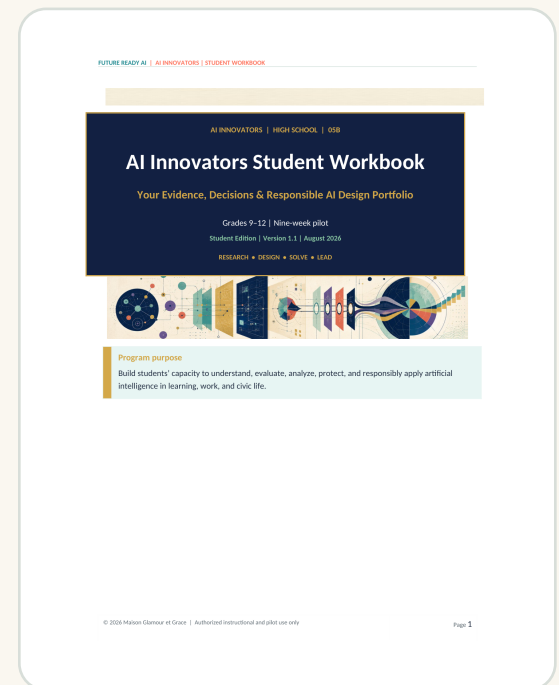
Nine-week pathway

### WHAT THIS PREVIEW SHOWS

- Responsible use and human accountability
- Prompting, research, and verification
- Human-centered problem discovery and AI fit
- Capstone design, safeguards, pitch, and reflection

### EVIDENCE OF LEARNING

Weekly artifacts become a responsible-AI portfolio and capstone demonstrating evidence, decisions, safeguards, and human judgment.



### SOURCE WORKBOOK

### SELECTED STUDENT-FACING PAGES ONLY

Full curriculum, facilitator guidance, answer keys, assessments, and implementation masters remain protected and are shared only through approved implementation or pilot access.

# Inside this public preview

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## Selected source pages

- **Workbook page 2**  
YOUR LEARNING PATHWAY - Welcome to AI Innovators
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WEEK 2 | PORTFOLIO ARTIFACT - AI Safety, Ethics & Responsible Use
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WEEK 9 | PORTFOLIO ARTIFACT - Capstone Pitch, Reflection & Post-Assessment

### WHY THIS IS A PREVIEW

This PDF is designed for public website review. It shows authentic student-facing curriculum evidence without publishing the complete instructional package. Teacher-only guidance, answer keys, unpublished assessments, implementation masters, and full program sequencing remain protected.

## YOUR LEARNING PATHWAY

## Welcome to AI Innovators

AI is changing how people learn, communicate, create, make decisions, and work. This course will not ask you to trust every tool or avoid every tool. It will help you understand systems, check evidence, protect people, analyze consequences, and design responsibly.

| ANALYZE                                                  | PROTECT                                                             | DESIGN                                                 | LEAD                                                             |
|----------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|
| Examine how AI systems work and verify important claims. | Safeguard privacy, fairness, transparency and human responsibility. | Build and test solutions around authentic human needs. | Explain decisions, communicate evidence and improve responsibly. |

### Your portfolio

Keep each weekly artifact. By Week 9, these pages become evidence of your growth and part of your responsible-AI capstone.

| Week | Artifact                                                  |
|------|-----------------------------------------------------------|
| 1    | AI ecosystem map + baseline                               |
| 2    | Responsible-use decision record + agreement               |
| 3    | Generative AI explanation + output autopsy                |
| 4    | Verified research brief + AI-use disclosure               |
| 5    | Stakeholder/safeguard recommendation                      |
| 6    | Synthetic-media verification record + disclosure label    |
| 7    | Problem statement + stakeholder map + AI Fit test         |
| 8    | AI role map + risk register + prototype                   |
| 9    | Capstone portfolio + pitch + reflection + post-assessment |

## WEEK 2 | PORTFOLIO ARTIFACT

## AI Safety, Ethics & Responsible Use

### Essential question

How can we use AI to learn and create while protecting people, information, fairness, and trust?

### I can...

- Apply privacy, accuracy, fairness, transparency, and human-accountability checks.
- Decide what information is safe to enter into an approved AI tool.
- Use the Future Ready AI learning agreement to explain responsible classroom use.

### Five responsible-use checks

| Check                   | Question to ask                                                       |
|-------------------------|-----------------------------------------------------------------------|
| Protect information     | Am I entering anything personal, private, confidential, or protected? |
| Check accuracy          | Which claims matter, and how will I verify them?                      |
| Look for bias           | What context may be missing? Who may be harmed or excluded?           |
| Explain AI use          | What assistance should I disclose under the assignment or policy?     |
| Keep people responsible | Who reviews, decides, corrects, and responds if something goes wrong? |

### Scenario decision record

Scenario: Your club wants to use a generative AI tool to create a recruitment poster. A teammate proposes uploading photos of current members so the tool can “make the students look more exciting.”

| Decision                            | Circle one: GO / REVISE / STOP |
|-------------------------------------|--------------------------------|
| Information/privacy risk            |                                |
| Accuracy or representation risk     |                                |
| Bias/access concern                 |                                |
| Disclosure needed                   |                                |
| Human reviewer/final decision-maker |                                |
| Safer action                        |                                |

Defend your decision using at least two responsible-use checks:

WEEK 4 | PORTFOLIO ARTIFACT

# Prompting, Research & Verification

Essential question

How can we use AI to support inquiry without outsourcing our thinking?

I can...

- Write a purposeful prompt with task, context, constraints, output format, and verification needs.
- Separate brainstorming support from claims that require credible sources.
- Verify a claim using lateral reading and at least two independent sources.

## 1. Build a purposeful prompt

| Part                 | Your plan |
|----------------------|-----------|
| Task                 |           |
| Context              |           |
| Constraints          |           |
| Output format        |           |
| What must be checked |           |

Final prompt—do not include personal or confidential information:

## 2. Verified research brief

Research question:

| Claim | Source 1 + evidence | Source 2 + evidence | Status |
|-------|---------------------|---------------------|--------|
|       |                     |                     |        |
|       |                     |                     |        |

WEEK 7 | PORTFOLIO ARTIFACT

# Human-Centered Problem Discovery & AI Fit

Essential question

What problem is worth solving—and is AI actually the right tool?

I can...

- Write a specific problem statement grounded in stakeholder evidence.
- Separate a real need from a preferred technology or imagined solution.
- Decide whether AI, ordinary automation, a nontechnical change, or no intervention is appropriate.

## Capstone Challenge Menu

Choose a safe, non-sensitive challenge—or propose one for teacher approval: school communication; study planning; accessible information; club/event operations; sports media; community resources; logistics; environmental observation; career exploration; drone/aviation awareness.

### 1. Stakeholder map

| Group                      | Names/roles—not private details | Needs, risks, or questions |
|----------------------------|---------------------------------|----------------------------|
| Primary users              |                                 |                            |
| People affected            |                                 |                            |
| Decision-makers            |                                 |                            |
| People with expertise      |                                 |                            |
| People who may be excluded |                                 |                            |

### 2. Evidence-based problem statement

[Stakeholder] needs a way to [need] because [evidence/context], while respecting [constraint].

## WEEK 9 | PORTFOLIO ARTIFACT

## Capstone Pitch, Reflection & Post-Assessment

### Essential question

Can we defend not only what our solution does, but why it should be trusted and when it should not be used?

### I can...

- Present a stakeholder-centered solution supported by evidence.
- Defend the solution's limits, safeguards, human authority, fallback, and remedy.
- Evaluate personal growth and identify a next step for learning or career exploration.

### Capstone Portfolio Checklist

| Complete ?               | Required component                         | Final check                                       |
|--------------------------|--------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> | Problem statement and stakeholder evidence | Specific need; no sensitive data                  |
| <input type="checkbox"/> | Stakeholder map                            | Includes affected and potentially excluded people |
| <input type="checkbox"/> | AI Fit test                                | Compares non-AI alternatives                      |
| <input type="checkbox"/> | AI role map                                | Minimum data, human authority, fallback           |
| <input type="checkbox"/> | Risk register                              | Specific safeguards, owner, stop rule             |
| <input type="checkbox"/> | Prototype                                  | Shows workflow and limitations                    |
| <input type="checkbox"/> | Sources and AI-use disclosure              | Claims checked; help explained                    |
| <input type="checkbox"/> | Individual reflection                      | Growth, limits, and next step                     |

### Four- to five-minute pitch

| Slide/section                 | What the audience needs to understand                              |
|-------------------------------|--------------------------------------------------------------------|
| 1. Need                       | Who has the problem and what evidence supports it?                 |
| 2. Alternatives and AI fit    | Why this approach—and why not a simpler option?                    |
| 3. Solution and prototype     | What happens from input to action?                                 |
| 4. Risks and safeguards       | How are privacy, accuracy, fairness, access, and misuse addressed? |
| 5. Human authority and remedy | Who decides, who can override, and how can people correct harm?    |
| 6. Limitations and next test  | What is not proven? What would you test before a pilot?            |