

Quick Start Guide

Your Entry Point to Human-AI Partnership Activities

Getting Started

This guide helps you navigate the curriculum and identify an appropriate starting point for your students. Whether you have a single class period or a full instructional unit, the pathways below will orient you to the available options.

i A Note on “Partnership” Language

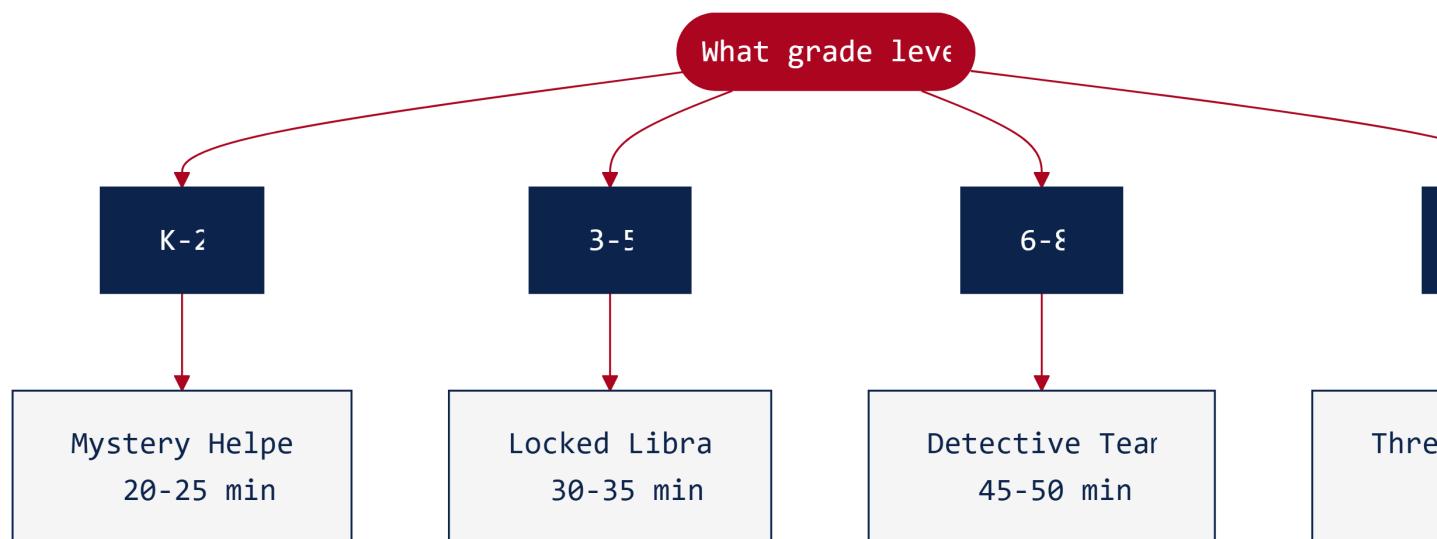
We use “partnership” language deliberately. Industry professionals typically say they “use AI tools,” but research on human-technology relations reveals that this framing obscures the mutual shaping between human judgment and automated systems. In security operations, the monitoring system shapes what counts as “suspicious” before the analyst ever sees it; the analyst’s perception is mediated by tool design; agency is distributed across the analyst, the tool, and those who configured its detection logic.

Teaching students to see these relationships clearly—rather than through the “I use tools” framing—is part of developing cybersecurity expertise.

[Learn more about the theory →](#)

Start Here: Select Your Grade Band

Use this decision tree to find your recommended starting point:



Elementary (K-5)

 Recommended First Activity

Activity 1: Security Detective Teams (K-2: “[Mystery Helpers](#)” or 3-5: “[Locked Library Computers](#)”)

This activity introduces the core partnership concept through investigation scenarios. Students discover that AI excels at pattern recognition while humans contribute contextual understanding, and that together they can solve problems neither could address alone.

Grade Band	First Activity	Time Needed	Prerequisites
K-2	Mystery Helpers	20-25 min	None—designed for first exposure
3-5	Locked Library Computers	30-35 min	Basic understanding of school computer use

After completing **Activity 1**, consider:

- **Activity 2** (Ethics): [Robot Helper Rules](#) (K-2) or [Computer Rules Committee](#) (3-5)
- **Activity 3** (Incident Response): [Fix It Team!](#) (K-2) or [Computer Problem Solvers](#) (3-5)

Middle School (6-8)

 Recommended First Activity

[Activity 1: Security Detective Teams](#) (45-50 minutes)

Middle school students benefit from completing the full investigation experience before engaging with ethics or incident response content. The detective framing captures student interest while establishing the foundational partnership concept.

Sequence	Activity	Time Needed	Prerequisites
Start here	Security Detective Teams	45-50 min	None
Then	AI-Assisted Incident Response	50-60 min	Partnership concept from Activity 1
Finally	Ethics in Automated Security	45-55 min	Activities 1 & 2 recommended

Full implementation: ~2.5 hours across three class periods

Minimum viable path: Activity 1 alone delivers core partnership learning in a single period

High School (9-12)

 Recommended First Activity

Activity 1: Threat Investigation (50-60 minutes)

The Security Operations Center (SOC) simulation provides authentic technical depth. For Career and Technical Education cybersecurity programs, this activity mirrors professional practice and aligns with [NICE Framework](#) work roles.

Sequence	Activity	Time Needed	Prerequisites
Start here	Threat Investigation	50-60 min	Basic network concepts helpful
Then	SOC Analyst Simulation	55-60 min	Partnership concept from Activity 1
Finally	AI Governance Workshop	50-60 min	Activities 1 & 2 for full context

Full implementation: ~3 hours across three class periods

CTE/Advanced pathway: All three activities form a coherent unit on professional human-AI collaboration

Implementation Time Planning

Single Class Period

Select **one activity** at your grade level. [Activity 1 \(Security Detective Teams\)](#) is recommended for initial implementation because it introduces the partnership concept that serves as the foundation for all subsequent activities.

Grade Band	Activity 1 Duration	Includes
K-2	20-25 minutes	Introduction, investigation, debrief
3-5	30-35 minutes	Introduction, investigation, synthesis
6-8	45-50 minutes	Full investigation cycle + debrief
9-12	50-60 minutes	SOC simulation + career connections

Two Class Periods

Pair Activities 1 and 3 for a two-session sequence. [Activity 3 \(Incident Response\)](#) applies the partnership concept to time-sensitive scenarios, extending naturally from the investigative work in Activity 1.

Three Class Periods (Full Curriculum)

Implement all three activities in sequence:

1. [Security Detective Teams](#) — Introduces the partnership concept

2. **AI-Assisted Incident Response** — Applies partnership principles to crisis situations
3. **Ethics in Automated Security** — Examines governance implications

This sequence develops progressively sophisticated understanding of human-AI collaboration in cybersecurity contexts.

Technology Assessment

Before beginning instruction, assess your classroom's level of AI access:

You Have	Your Approach
1:1 devices + student AI accounts	Students partner directly with AI
Shared devices + class AI account	Rotation stations + demonstrations
Teacher device + projector only	Think-Aloud Demonstration
Home access, no school access	Homework preparation + class synthesis
No devices or AI access	Pre-generated response cards + teacher role-play

i Every Approach Works

Low-resource options frequently produce richer learning outcomes than live AI access. When students cannot defer to AI for immediate answers, discussion depth and critical thinking often increase. See the [Low-Resource Implementation Guide](#) for detailed strategies.

Activity Prerequisites

Activity 1: Security Detective Teams

- **No prerequisites required** — designed as an introductory activity
- Helpful: Basic familiarity with passwords and login concepts
- The [K-2 version](#) assumes no prior technology knowledge

Activity 2: Ethics in Automated Security

- **Recommended prerequisite:** Activity 1 (establishes partnership concept)
- Students benefit from understanding AI capabilities before designing governance frameworks
- Can be implemented as a standalone activity with additional framing time (add 10 minutes)

Activity 3: AI-Assisted Incident Response

- **Recommended prerequisite:** Activity 1 (establishes partnership concept)
- Students apply partnership dynamics under simulated time pressure
- Can be implemented as a standalone activity with additional framing time (add 10 minutes)

Materials Preparation

Required Print Materials

Activity	Print Materials
Activity 1	Evidence packets (1 per group), student worksheets
Activity 2	Scenario cards, policy template
Activity 3	Role cards, incident timeline

All printable materials are available on the [Materials page](#) in both PDF and editable DOCX formats.

Optional Enhancements

- Role badges for team assignments
- [AI response cards](#) for low-resource implementation (grade-differentiated)
- Timer display for incident response activity

Technical Preparation

1. **Test AI platform access** before class (approximately 10 minutes)
2. **Prepare sample prompts** in advance (approximately 5 minutes)
3. **Set up shared documentation space** for group work (approximately 5 minutes)

See the [AI Platform Setup Guide](#) for platform-specific instructions.

Quick Reference: Activity Comparison

Aspect	Activity 1	Activity 2	Activity 3
Focus	Investigation & pattern recognition	Policy design & ethics	Crisis response & coordination
Core Learning	AI + human = more than either alone	AI governance requires hard trade-offs	Teams coordinate with AI under pressure
Student Role	Detective partner	Policy committee member	Incident response team member
AI Role	Investigation partner	System being governed	Response assistant
Best For	First exposure to partnership concept	Deeper ethical thinking	Applied collaboration skills

Next Steps

1. **Select your grade band** from the sections above
2. **Review Activity 1** for your level: [K-2](#) | [3-5](#) | [6-8](#) | [9-12](#)
3. **Assess your technology access** and review the appropriate [implementation guide](#)
4. **Print required materials** from the [Materials page](#)
5. **Complete the activity yourself** before facilitating it with students

! The Most Important Preparation

Complete the activity yourself before facilitating it with students. Work through the suggested AI prompts, examine the evidence materials, and formulate your own conclusions. This preparation, more than any technical setup, enables effective facilitation.

Questions or Support

For implementation support or questions about these materials, contact Dr. Ryan Straight at ryanstraight@arizona.edu.