Security Detective Teams

Investigation Worksheet

Your Name: _____ **Date:** _____

Team Members: _____

Part 1: Your Detective Work (Before Talking to AI)

Look at the evidence packet. You have 10 minutes to investigate on your own.

What patterns do YOU notice?

In the login times:

_____

In the passwords:

_____

In the social media clues:

_____

What feels suspicious to you? (Trust your gut.)

_____

_____

What questions came up that you can't answer from the evidence alone?

1. _____

2. _____

Part 2: Working WITH Your AI Partner

Your AI partner is joining the investigation. They're good at different things than you are. Talk to them like a teammate, not a search engine.

Your opening message to AI:

> "You're my investigation partner. We're looking into mysterious account lockouts at a school. Here's what I've found so far: [share your observations]. What patterns do you see that I might have missed?"

What did AI notice that you didn't?

_____

_____

_____

What did AI get WRONG or seem uncertain about?

_____

_____

What did AI ask YOU about? (Good partners ask questions back.)

_____

_____

Did you disagree with AI about anything? What happened?

_____

_____

Part 3: What Each Partner Contributed

Be specific. This is the important part.

Investigation Task	What YOUR Brain Did	What AI Did	What You Figured Out TOGETHER
Spotting patterns in the data			
Understanding WHY someone would do this			
Deciding what evidence matters most			
Connecting clues to real-world context			

Part 4: Your Conclusions

What do you think happened? (Your team's theory)

_____

_____

_____

How confident are you? Why?

[ ] Very confident — because _____

[ ] Somewhat confident — because _____

[ ] Not sure yet — because _____

What would you investigate next?

_____

Part 5: Reflection

What surprised you about working with AI?

_____

_____

What can humans do in cybersecurity that AI can't?

_____

_____

What can AI do that humans would struggle with?

_____

_____

If you were a real cybersecurity analyst, how would you want to work with AI?

_____

_____

Security Detective Teams — NICE K12 2025