



Good morning, Agents.

US Intelligence has received word that top-secret government computer files have been stolen from a federal office by international terrorists. These files contain information that is vital to national security, and it is very important that they be retrieved.

We know that the files are being kept in a vault in the terrorists' compound. Your team's mission, should you choose to accept it, is to break into the vault and retrieve the files. However, the vault is protected by a sophisticated security system, including motion-sensitive lasers and many armed guards. Your team should break in at night, since the guards won't be able to see as well in the dark.

The most important part of this mission is planning. So before you go, you will need to plan carefully and decide what equipment you will bring with you.

As always, should you or any member of your elite team be caught or killed, the United States government will deny any knowledge of your actions, so be sure to escape without being caught!

Good luck.

A handwritten signature in blue ink, appearing to be "J. Public". The signature is stylized and fluid, with a long horizontal stroke extending to the right.

J. Public  
U.S. Secretary of Defense

## **I Spy Lots of Lights! Case Packet**

Your team must decide what equipment you will be bringing with you, and the Defense Department has given you money to purchase what you need. For each piece of equipment, however, you have several options to choose from. For each question, you should do these things:

- READ the question. With a pencil, circle the answer that you think is correct, or if the question isn't multiple-choice, think about what the answer might be. This is your HYPOTHESIS.
- You have a chart for each question. In each chart, write your QUESTIONS and your LEARNING ISSUES. What do you need to research to see if your answer to the question is the best one?
- If there is an activity that goes with the question, do the activity and WRITE DOWN what you did and what happened. THINK about how the activity helps answer the question.
- If you've changed your mind about the answer that you chose, change your answer. If not, keep your answer. Then EXPLAIN why you think your answer is the best one. If there was an activity with the question, EXPLAIN how what happened in the activity supports your answer.

1. You know that you will wait until dark to break into the compound, which means you'll need to bring flashlights with you. Your team discusses your options and decides to carry flashlights that emit light at wavelengths measuring:
  - a. 4200 angstroms
  - b. 5600 angstroms
  - c. 6800 angstroms
  - d. 100,000,000,000 angstroms
  - e. Other \_\_\_\_\_

Why?

2. One of the agents on your team is color-blind. What does that mean?

Should the color-blind agent be allowed to pick out the flashlights? Why or why not?

3. You plan to take photographs of the compound so your agency can get more information on the terrorists. When you look through the eyehole in one of your cameras, however, the image looks upside-down and backwards. You decide:
  - a. The camera is broken, and you shouldn't bring it along
  - b. The camera is not broken, and you should bring it along

Why?

4. You also know that you will need to blend in, which means you will have to wear the right kind of clothing. You know that you want your clothing to diffuse light as much as possible, so you decide to wear clothes made of:
  - a. Black vinyl
  - b. Black cotton
  - c. White cotton
  - d. Other \_\_\_\_\_

Why?

5. The hardest part of your mission will be getting to the safe with the stolen documents once you get into the vault. You have the combination to unlock the safe, but you don't have the code to disarm the security system. Therefore, your team will have to get past a field of lasers that are part of the security system. If you touch even one of the lasers, it won't hurt you but it will set off the alarms and bring the guards after you. To make it even worse, you cannot even see the laser beams! Luckily, you are all experts on lasers and you know that the best way to get past them is to
  - a. Crawl very slowly across the floor and hope that none of the lasers touch the floor
  - b. Bring along a can of air freshener and spray it into the room from the doorway before you crawl into the room
  - c. Other \_\_\_\_\_

Why? What is it about lasers that made you choose what you did?

6. **Activity:** You are hiding in a dark, empty room, but you must cross a hallway to get to where the documents are held, and there are guards patrolling all of the hallways. You must see if there is someone in the hallway without peeking out into the hallway, because if you stick your head out to look, the guards might shoot at you! The only other piece of equipment that you have is a small mirror. What can you do with the mirror, and why?

## Self Evaluation Worksheet

Date: \_\_\_\_\_

Your Name: \_\_\_\_\_ Group #: \_\_\_\_\_

**Instructions:** Please circle the response with which you agree the most. This evaluation will only be read by your teacher and will **not** be shown to other students.

1. How would you rate *your* participation in group discussion and group work?

**5 Excellent      4 Very Good      3 Good      2 Fair      1 Poor**

2. How would you rate *your* effort in completing the case?

**5 Excellent      4 Very Good      3 Good      2 Fair      1 Poor**

3. Did *you* complete the assigned homework?      **Yes**      **No**

If No, explain why:

4. How well did *you* work with everyone in your group?

**5 Excellent      4 Very Good      3 Good      2 Fair      1 Poor**

5. Overall, how would you rate *your* performance in this case?

**5 Excellent      4 Very Good      3 Good      2 Fair      1 Poor**

6. What praise or criticism do you have for other group members? What are your thoughts about the case?

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