This module presents an easy-to-understand introduction to fundamentals of robotic programming and security. The participants will be introduced to learn to code with KOOV! KOOV is a new and exciting way to introduce robotics and coding to students with a hands on experience. It is also an excellent application for illustrating cybersecurity collaboration and problem solving skills to students. The larger classrooms of 35 students can be put into teams of three to five students with assignments of specific roles for each student on the team.

☐ ☐ 240

☐ ☑

Design/Build
Test/Defend
Compare/Contrast
Apply/Use
Explain/Discuss
Identify/Describe

KOOV Starter kit
Bluetooth enabled computer
Windows environment
IOS Computer
iPad application

None

1. Evaluate a Set of Instructions: Tell students that you are going to give them instructions to bake a batch of cookies. Then write the following steps on the classroom board.

• Gather eggs, butter, sugar, flour, baking soda, and chocolate chips.
• Mix ingredients in large bowl.
• Place cookie dough on a pan.
• Bake until done.

Guide students to evaluate your instructions. Ask the class: Do they think a person could successfully bake cookies by following these steps? If 10 people followed these steps, would they all make the exact same cookies? Why or why not? Prompt students to be specific when they describe the limitations of the instructions. (For example: The instructions don't say how much of each ingredient is needed. They don't explain the order in which the ingredients should be added. They don't specify how the dough should be placed on the pan—in balls or as one large layer. The temperature that the cookies should be baked

OBJECTIVE: Students will

✔	%PNBJO 4FQBSBUJPO	☐	"CTUSBDUJPO
☐		✔	
☐		☐	
✔		☐	
☐		☐	

%FTDSJCF BOZ &YUFOTJPO "DUJWJUJFT J F JEFBT GPS GVS