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|  | **Lesson Plan** |

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| **LESSON TITLE:** | **Module 4: Cybersecurity Student Engagement and Lesson Plan Design** |

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| **SUMMARY:** |
| While GenCyber teacher camps have proven effective at teaching the teacher, the broader impact is blunted if instruction is underemphasized. This module provides a broad overview of instructional strategies, followed by a survey of educational resources specific to the cybersecurity domain. |

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| **GRADE BAND:** | **Time Required:** |
| |  |  | | --- | --- | | K-2 | 6-8 | | 3-5 | High School | | |  |  | | --- | --- | | 180 | minutes | |

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| **Lesson Learning Objective/Outcomes: Upon completion of this lesson, students will be able to:** |
| * Understand the role of cybersecurity in the classroom; * Create an engaging lesson plan with activity; * Engage students on topics in cybersecurity. |

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| **Materials List:** |
| * Lecture Presentation * Lesson Plan Template and Sample |

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| **How will you facilitate the learning?**   * Describe the Warm-up Activity/Focused Activity/Closure and/or Reflection * Describe the Teacher Instruction |
| * Delivery method - participatory lecture * Formative assessment (web-based student response system and “Fist-to-Five”) * Gamification (periodic quizzes, leaderboard) * Group discussion after activity |

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| **This lesson includes:** |
| |  |  | | --- | --- | | Mapping to Cyber Security First Principles  Assessments | Learning Objectives | |

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| **Mapping to Cyber Security First Principles:** |
| |  |  | | --- | --- | | Domain Separation | Abstraction | | Process Isolation | Data Hiding | | Resource Encapsulation | Layering | | Modularity | Simplicity | | Least Privilege | Minimization | |

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| **Assessment of Learning:** |
| |  |  | | --- | --- | | TYPE (Examples Listed Below) | NAME/DESCRIPTION | | Writing Assignment  Presentation  Other  Choose an item.  Choose an item.  Choose an item.  Choose an item. | Participants will design their own lesson plans, then present them at the workshop. Follow-up discussion will help educators refine their lessons for the classroom in the fall. | |

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| **Accommodations: (Examples may include closed captioning for hearing impaired students; accommodations for students with disabilities.)** |
| Reference YouTube videos will include annotation and/or closed captioning as appropriate. Google Doc presentation can be modified for large font size and high contrast. |

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| **Description of Extension Activity(ies):** |
| After the lecture portion, participants will design their own lesson plans based on the GenCyber lesson plan template. Each participant will then present their lesson at the workshop. Follow-up discussion will help educators refine their lessons for the classroom in the fall, which will support more numerous and engaging classroom application. |

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| **Acknowledgements:** |
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