



Lesson Plan

LESSON TITLE: Introduction to Digital Forensics

SUMMARY:

Students will be introduced to the basics of digital forensics, including how an investigation is conducted, tools that are currently being used in real world investigations, and famous criminal cases that were solved with the use of digital forensics. Students will be given an opportunity to utilize tools (specifically EnCase) to perform various tasks that will allow them to recover deleted files, view erased images, and decode hidden text.

GRADE BAND:

K-2

6-8

3-5

High School

Time Required:

50.000 minutes

Lesson Learning Objective/Outcomes: Upon completion of this lesson, students will be able to:

- Identify importance of digital forensic investigations
- perform simple task using digital forensic tools
- Identify the First Principles that are used in securing digital forensic investigations

Materials List:

How will you facilitate the learning?

- Describe the Warm-up Activity/Focused Activity/Closure and/or Reflection
- Describe the Teacher Instruction

- Introduction of topic
- Kahoot quizzes
- Hands on activities including labs focused on learning digital forensic investigation steps and techniques

This lesson includes:

Mapping to Cyber Security First Principles

Learning Objectives

Assessments

Mapping to Cyber Security First Principles:

- Domain Separation
- Process Isolation
- Resource Encapsulation
- Modularity
- Least Privilege

- Abstraction
- Data Hiding
- Layering
- Simplicity
- Minimization

Assessment of Learning:

TYPE (Examples Listed Below)	NAME/DESCRIPTION
Quiz/Test Presentation Project Writing Assignment Observation Walk Around Oral Questioning Other	-Kahoot quiz -Instructor observation

Accommodations: (Examples may include closed captioning for hearing impaired students; accommodations for students with disabilities.)

Description of Extension Activity(ies):

Acknowledgements: