



## **Mrs. Gentile's Lesson Plan**

I.U.P. June 14, 2017 2:00 - 4:00 pm

**Lesson Title:** On-Line/Tech-Based Engagement and Assessment

### **Summary:**

Based upon pre-camp survey data, teachers will be given time to explore and develop engaging on-line strategies for teaching and assessing Cyber Security First Principles, culminating on Day 4 with the creation of an on-line sharing tool.

Kahoot, Quizlet, Quizizz, Edpuzzle, Google Forms and possibly Hyperdocs will be explored as effective assessment methods with immediate feedback for students.

### **Grade Band:**

PK – 12 Teachers

### **Time Required:**

2 50-minute sessions

### **Lesson Learning Objectives/Outcomes**

**Upon completion of this lesson, teachers will be able to:**

- Create an active, on-line game to practice the Cyber Security Principles
- Search and critique popular on-line learning games for resources already made
- Create a video lesson for review, assessment or to flip the classroom
- Observe how I use Google Classroom to organize work/activities, retention – building materials, videos, games, assignments
- Apply Webb's Depth of Knowledge levels to all activities and assessments
- List ways teachers can briefly apply the Cyber Security Principles when using technology in front of students in their classrooms

### **Materials List:**

Chromebooks

Webb's DOK reference charts

Google Accounts/Knowledge of Drive

Guided Notes about On-Line Games

**How will you assess learning? Lis**

## **Mapping to ALL Cyber Security First Principles:**

**Domain Separation**

**Abstraction**

**Process Isolation**

**Data Hiding**

**Resource Encapsulation**

**Layering**

**Modularity**

**Simplicity**

**Least Privilege**

**Minimization**

## **Assessment of Learning:**

### **TYPE**

### **Name/Description**

Oral Questioning

Teachers offer additional examples of each topic demonstrated

Guided Notes

Completed as we discuss each activity

On-line Writing Assignment (Google Slide) To be completed on Day 4

## **Accommodations:**

N/A, except that some teachers' districts do not have a contract for GAFE, but still have access to Google Docs

## **Description of Extension Activities:**

It would be wonderful if we could work as a team to make a GenCyber Hyperdoc to share on Day 4.

## **Acknowledgements:**

Lisa Highfill, Kelly Hitton, Sarah Landis for Hyperdoc information