UNIVERSITY of SOUTH FLORIDA Developing **Cybersecurity Teaching** Content through Group Brainstorming

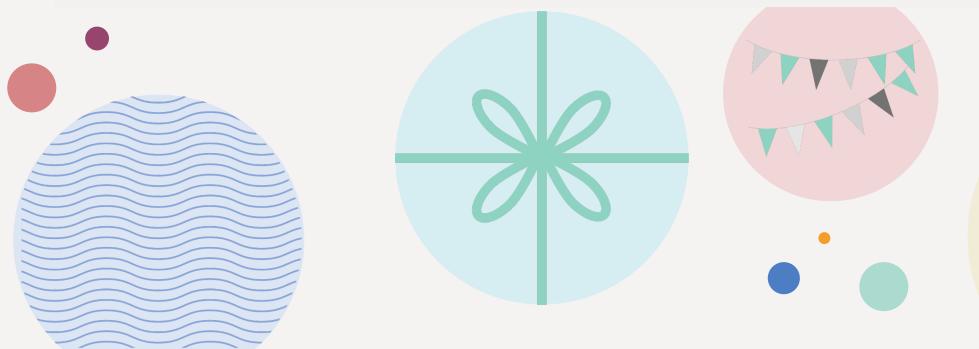
Session 3

Saturday, August 5, 2023, 12:00pm – 1:00pm Janelle Yearwood & Erika Samuel, Study Facilitators Dr. Tempestt Neal, Principal Investigator Contact: COENG-CIBER@usf.edu

This study is approved by USF's Institutional Review Board as Study #005606 and funded by the National Science Foundation's Secure and Trustworthy Cyberspace Program, Grant #2039373.

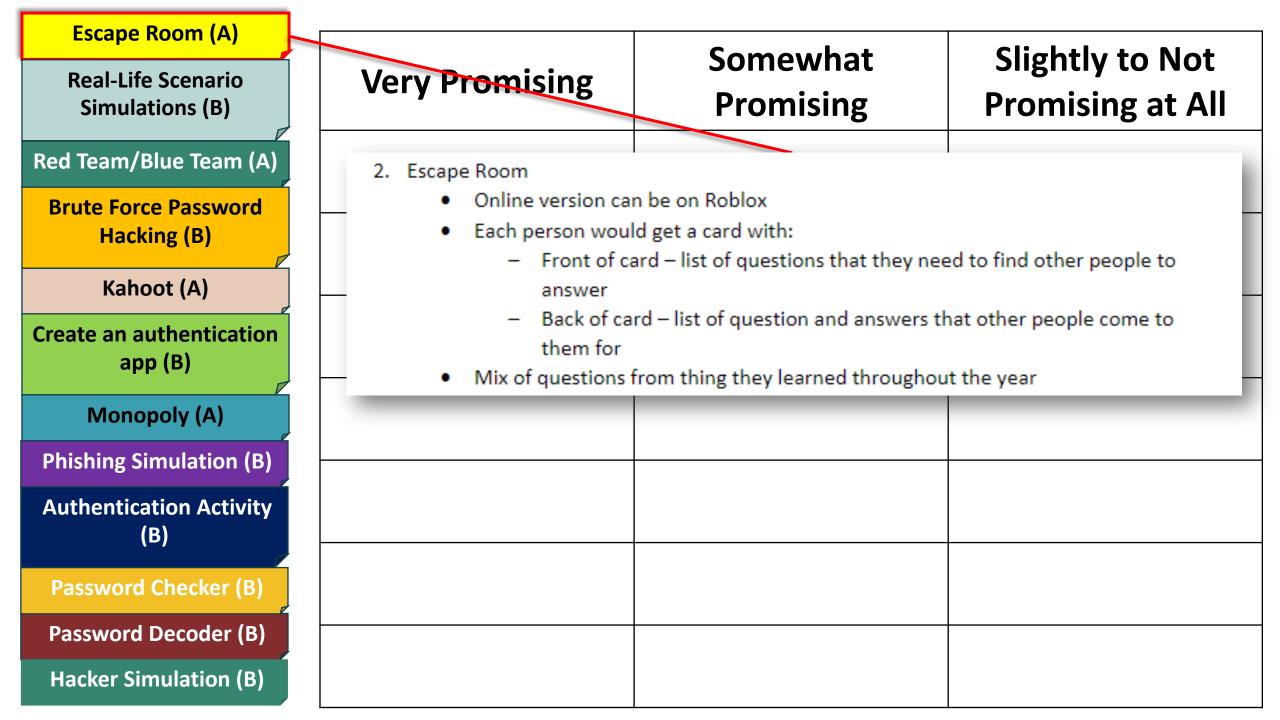
Ice Breaker

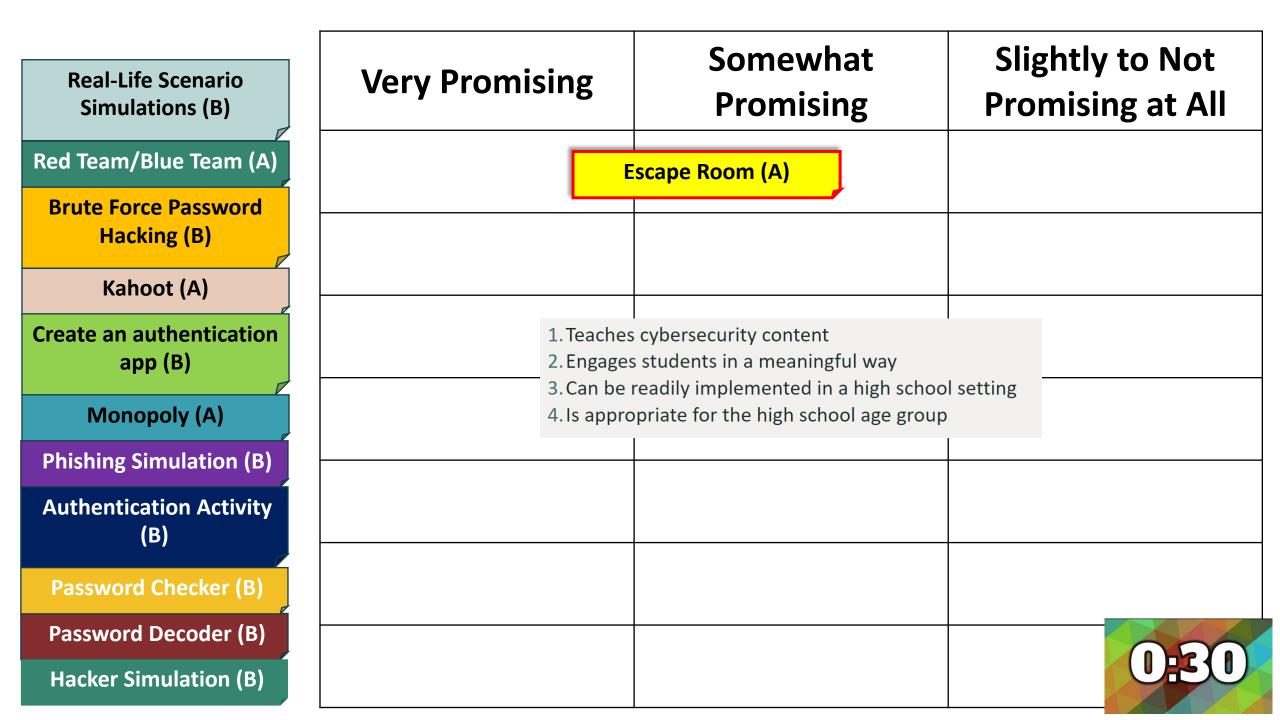
Welcome everyone! Let's go around the virtual room and share one thing that has brought us joy or made us smile recently. It can be a small achievement, a funny moment, or even a heartwarming story.

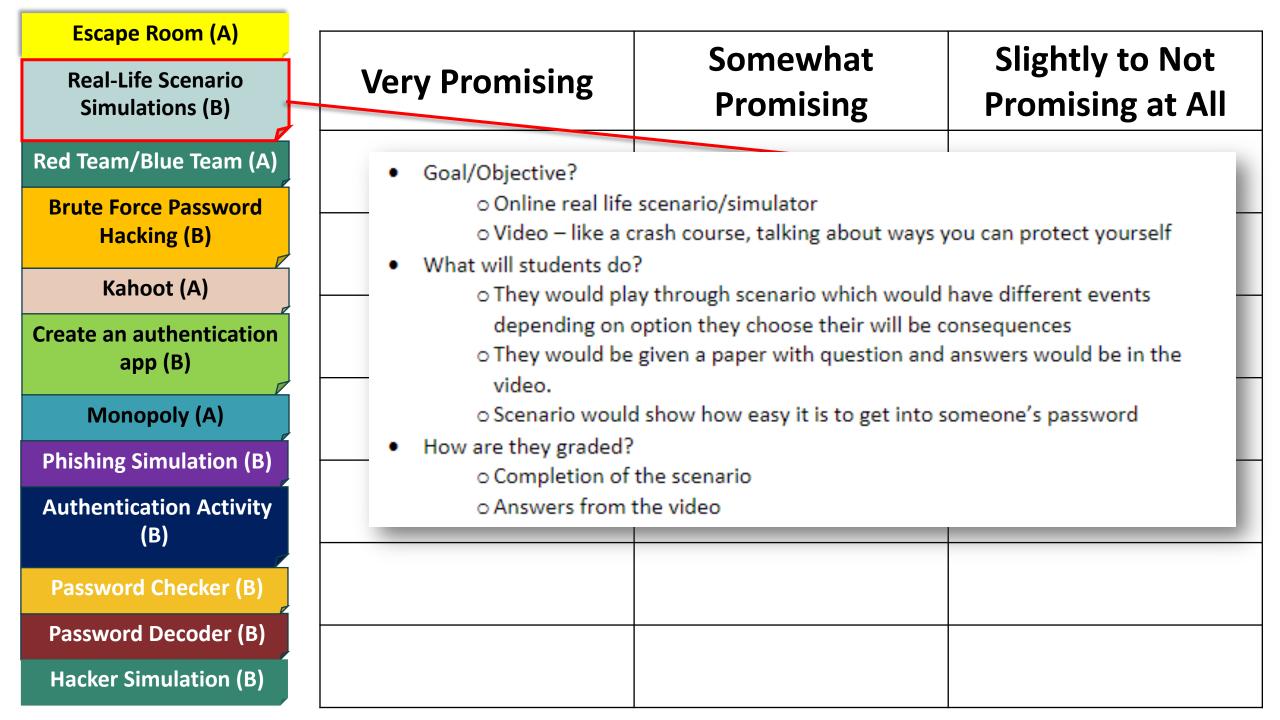


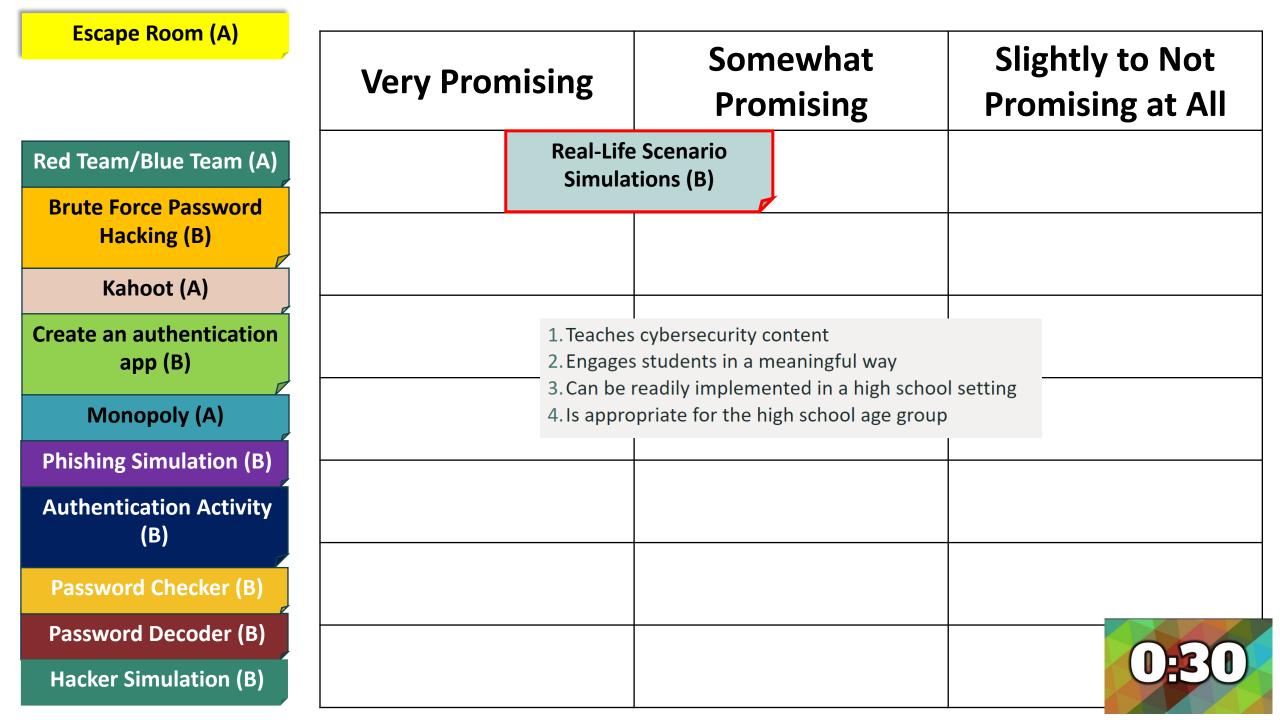
. Idea Discussion

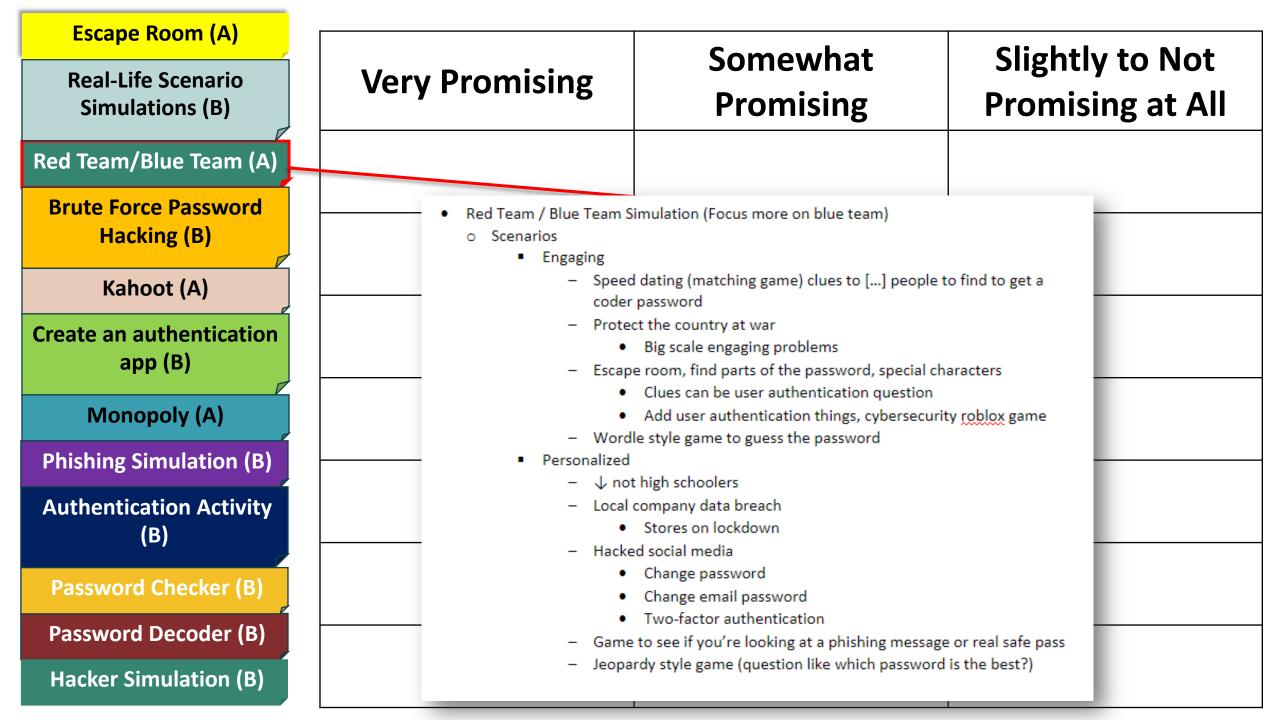
- Each group will describe their idea
- The entire team discusses the idea (90 seconds) and decides how promising it is as a classroom activity that
 - 1. Teaches cybersecurity content
 - 2. Engages students in a meaningful way
 - 3. Can be readily implemented in a high school setting
 - 4. Is appropriate for the high school age group

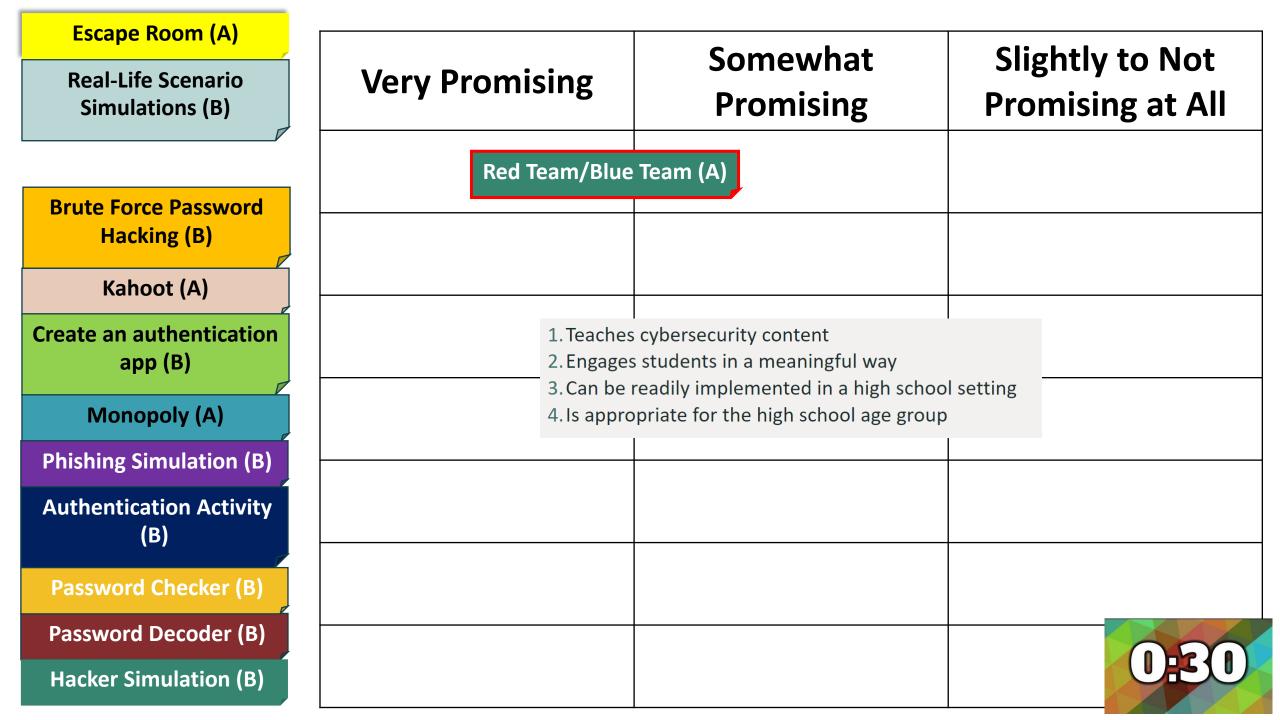


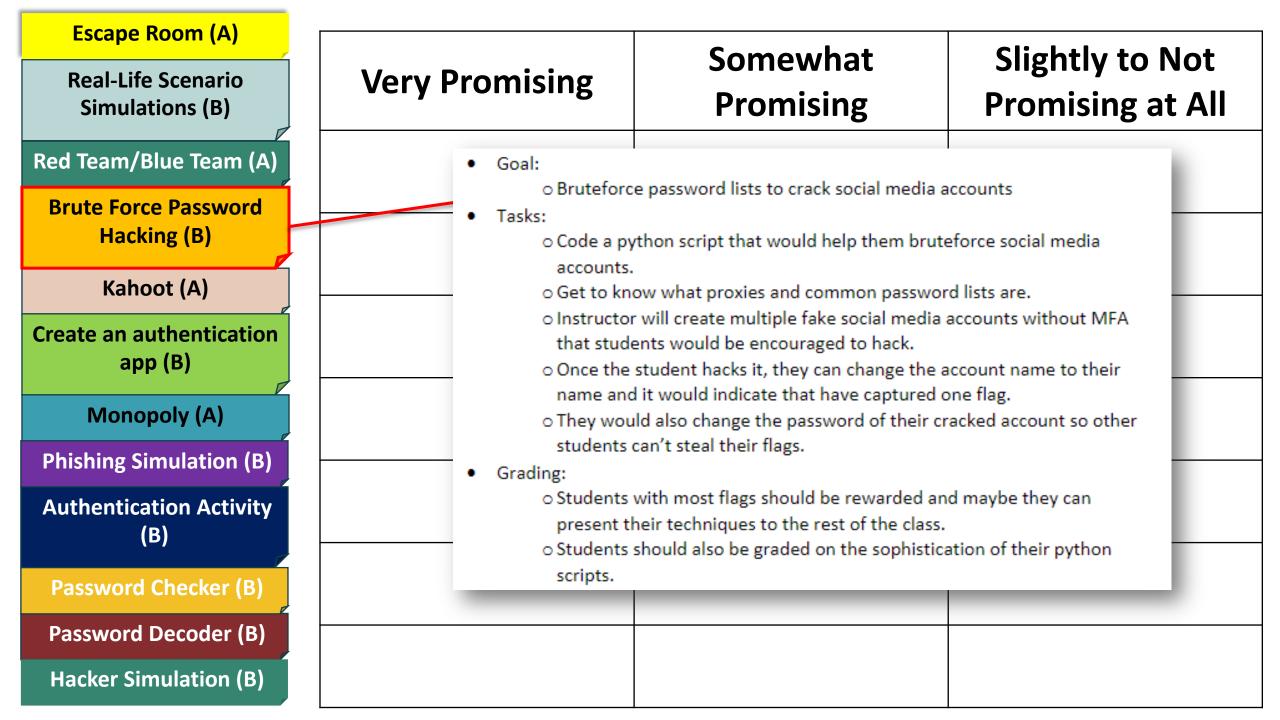






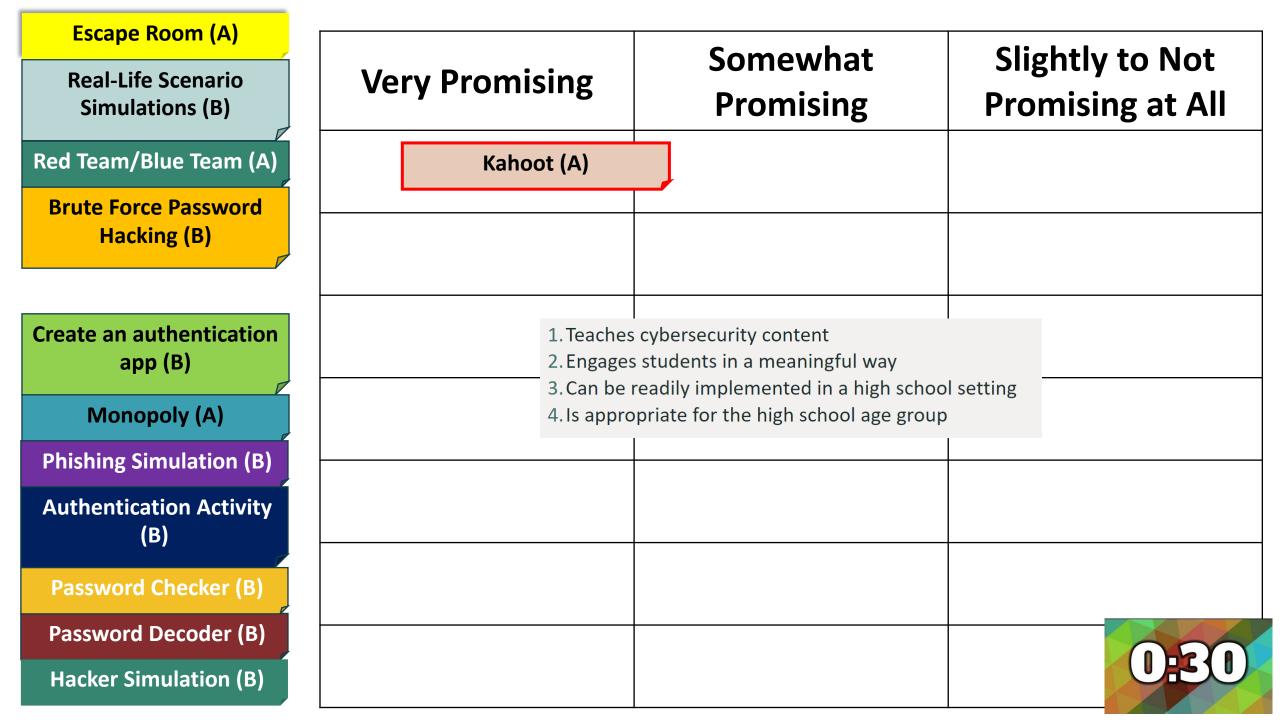


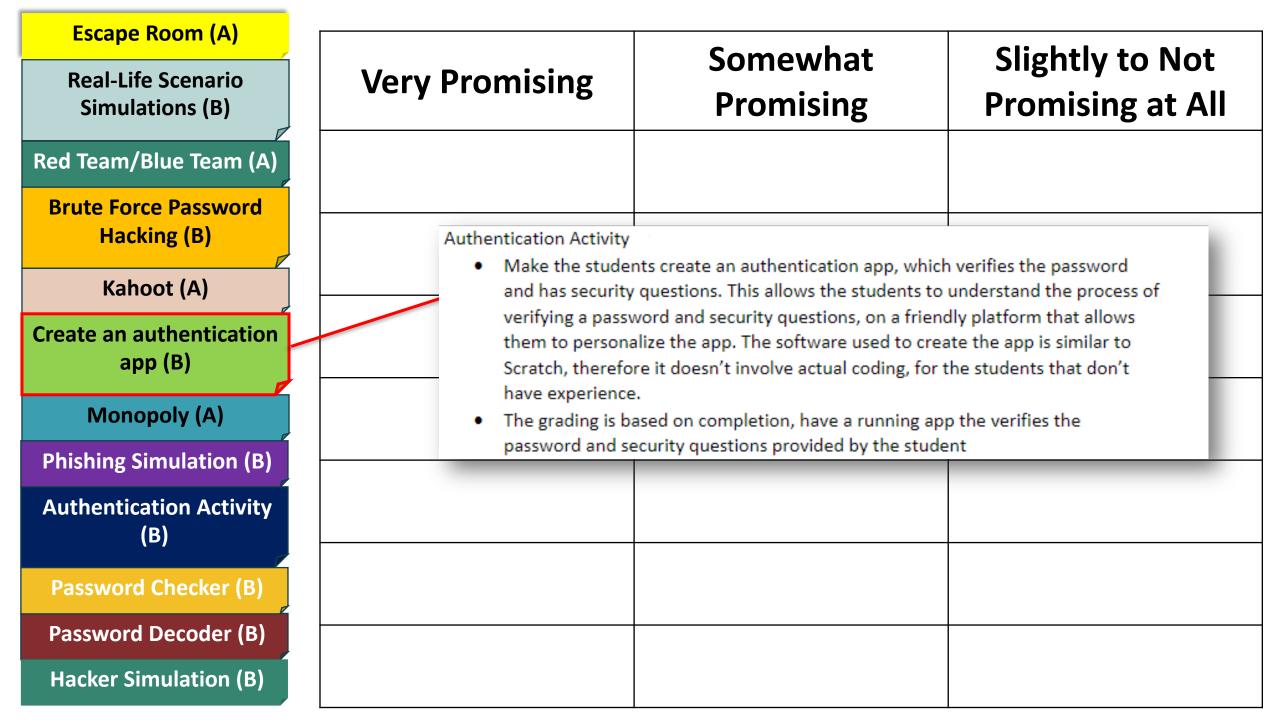




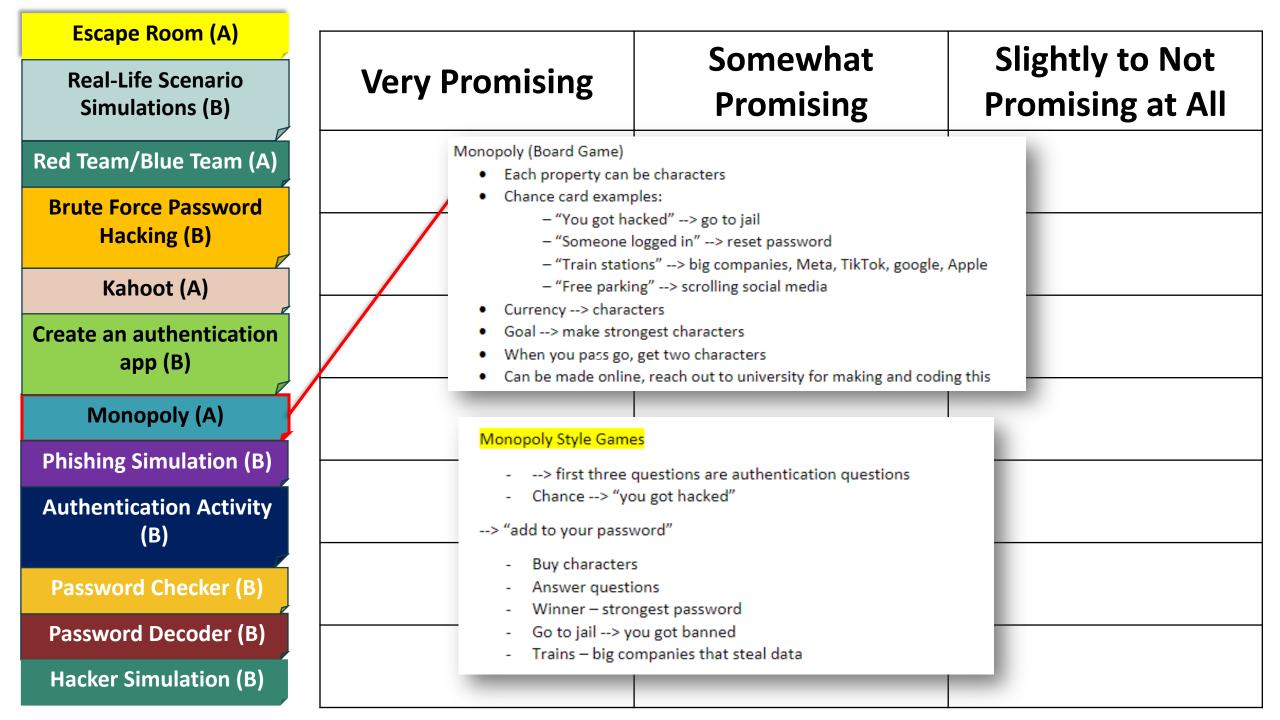
Escape Room (A) Real-Life Scenario Simulations (B)	Very Promising	Somewhat Promising	Slightly to Not Promising at All
Red Team/Blue Team (A)		Brute Force Password Hacking (B)	
Kahoot (A)			
Create an authentication app (B)	2.Engages	 s cybersecurity content s students in a meaningful way readily implemented in a high	-
Monopoly (A)	3. Can be readily implemented in a high school setting4. Is appropriate for the high school age group		
Phishing Simulation (B)			
Authentication Activity (B)			
Password Checker (B)			
Password Decoder (B)			
Hacker Simulation (B)			

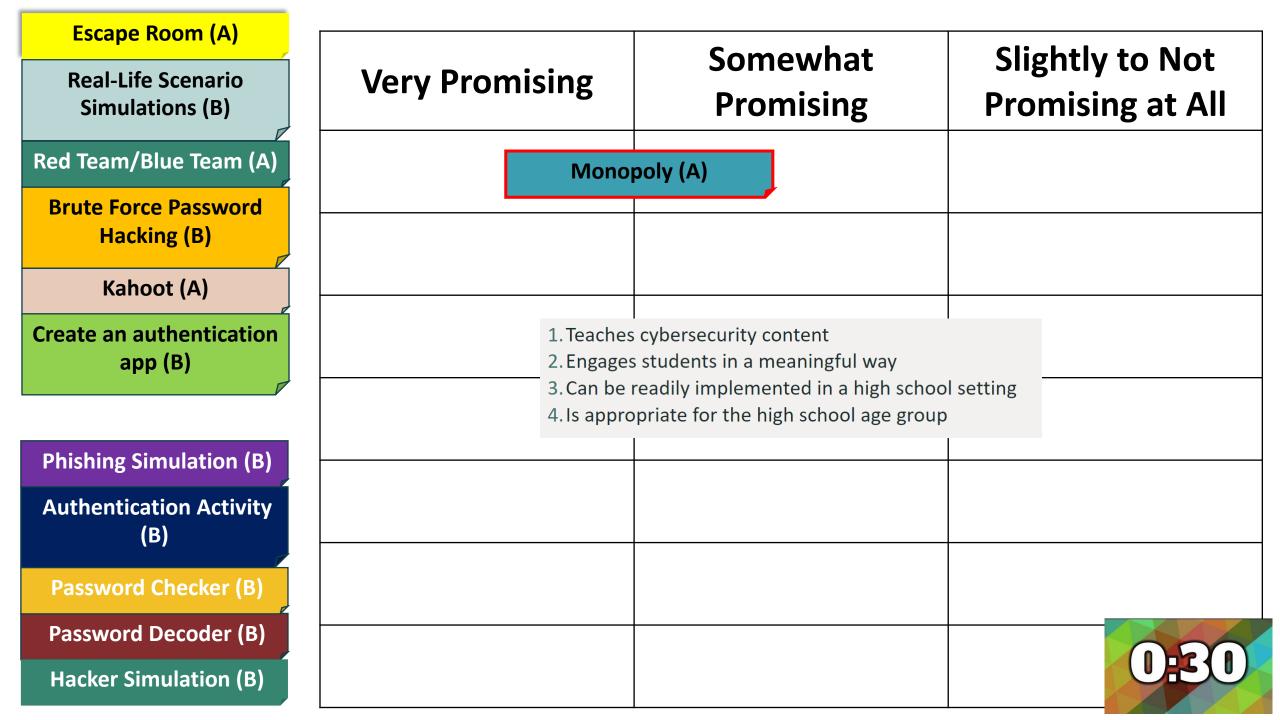
Escape Room (A) Real-Life Scenario	Very Promising	Somewhat	Slightly to Not
Simulations (B)	Promising	Promising at All	
Red Team/Blue Team (A)			
Brute Force Password Hacking (B)	Kahoot Style Game • Show two messages	s that are similar and students	have to identify the danger
Kahoot (A)	 Friend reaching out vs Hacker trying to get you to click a link Company's promotional vs phisher Mix in need to know questions from class Engages entire class in one activity 		
Create an authentication app (B)			
Monopoly (A)	Done in classroom or on teams		
Phishing Simulation (B)			
Authentication Activity (B)			
Password Checker (B)			
Password Decoder (B)			
Hacker Simulation (B)			

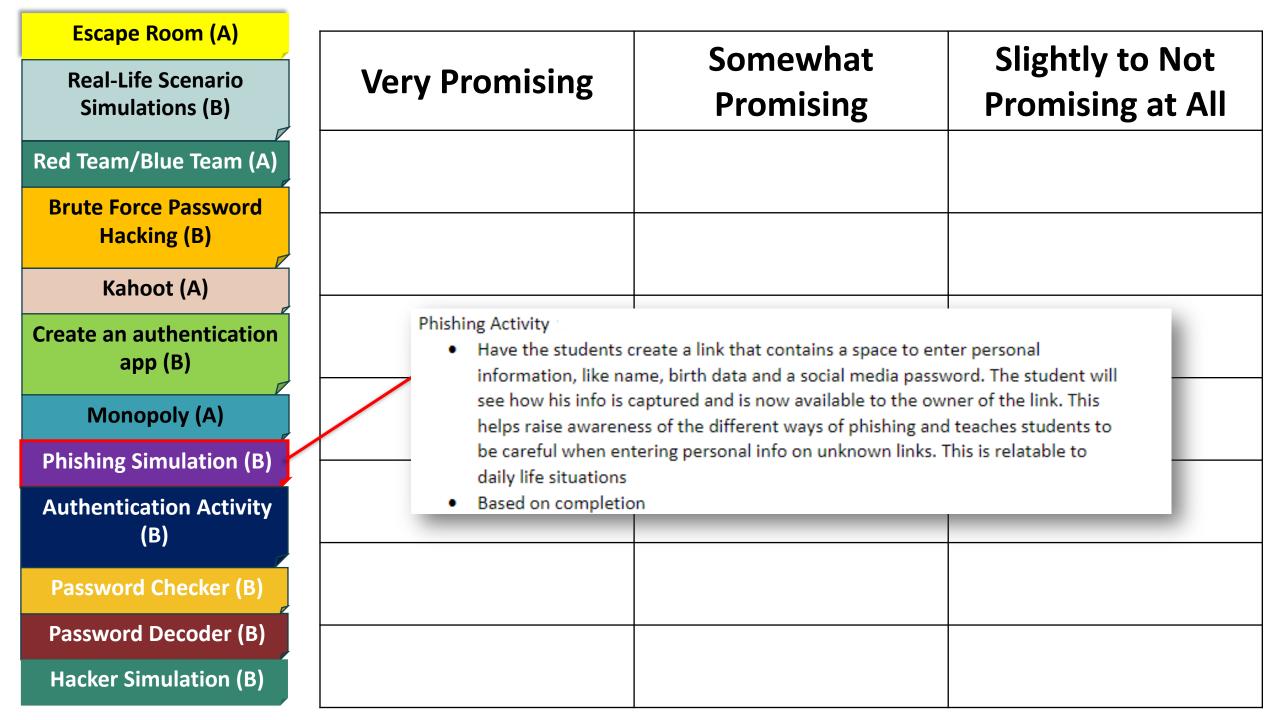


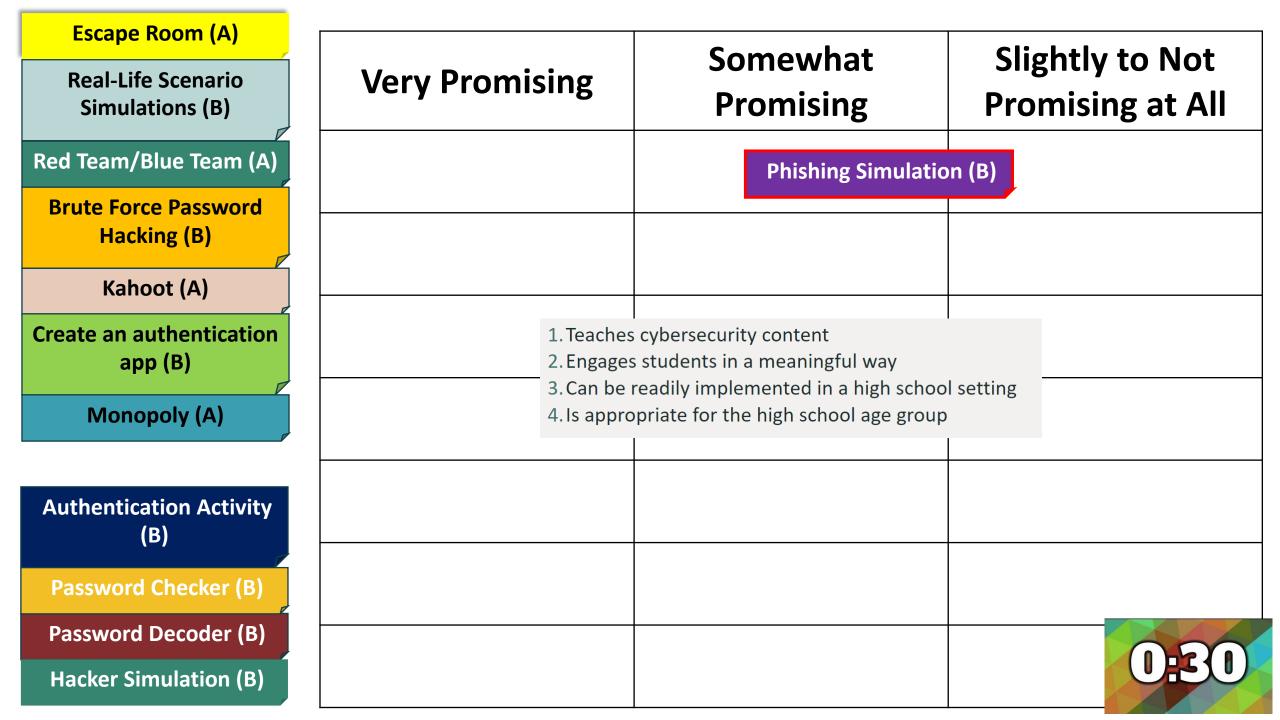


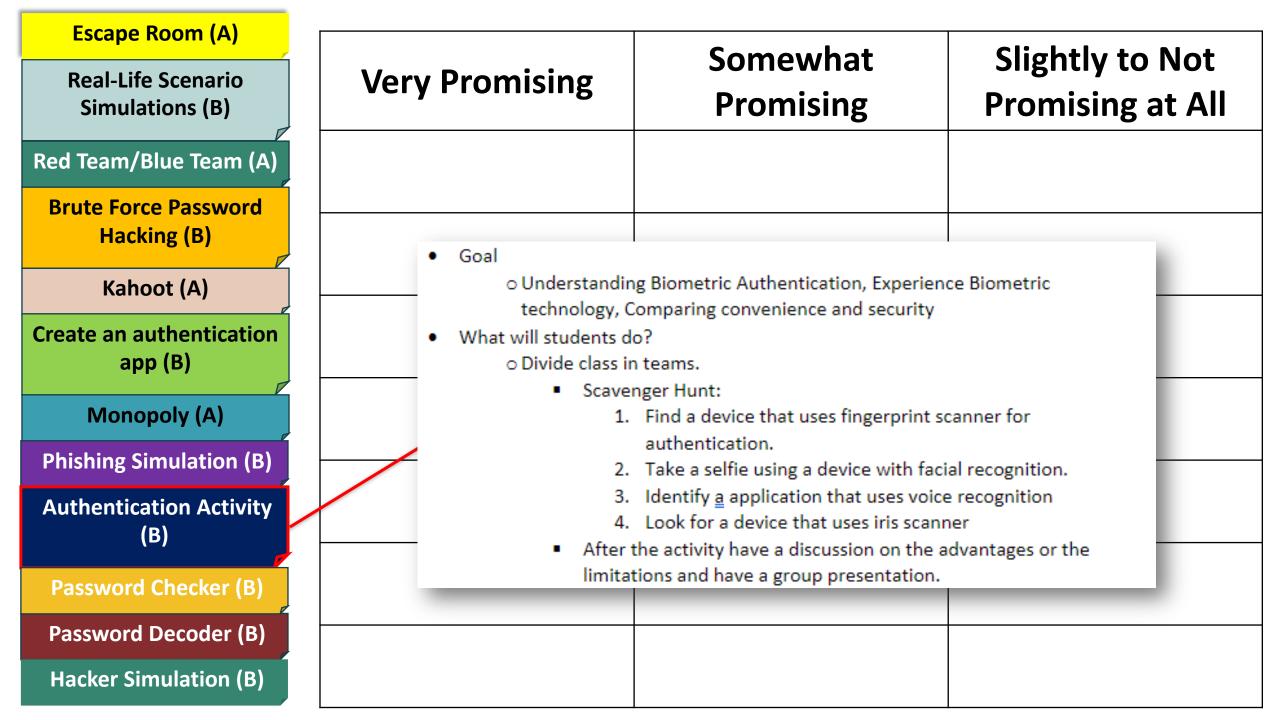
Escape Room (A)		Comowho		
Real-Life Scenario Simulations (B)	Very Promising	Somewha Promising		tly to Not sing at All
Red Team/Blue Team (A)		Create an authentication app (B)		
Brute Force Password Hacking (B)				•
Kahoot (A)				
Monopoly (A)	2. Engage3. Can be	s cybersecurity content s students in a meaningful readily implemented in a h opriate for the high school	high school setting	
Phishing Simulation (B)				
Authentication Activity (B)				
Password Checker (B)				
Password Decoder (B)				0.20
Hacker Simulation (B)				



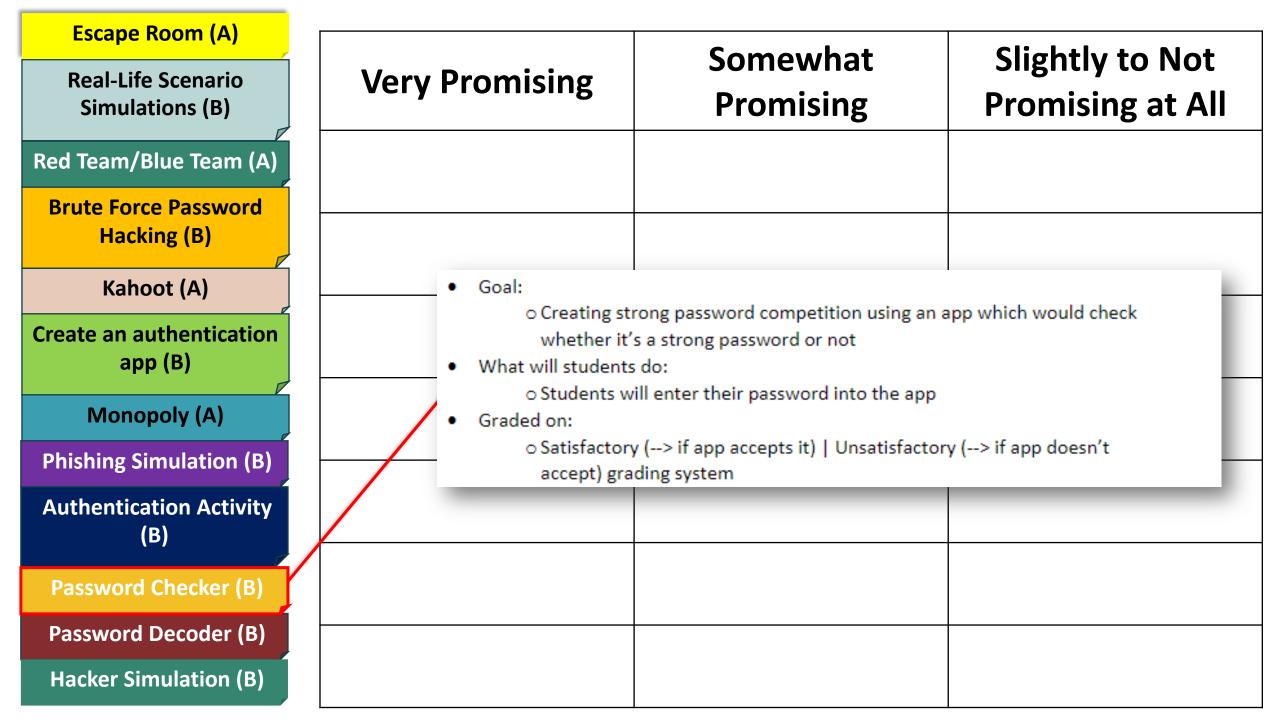




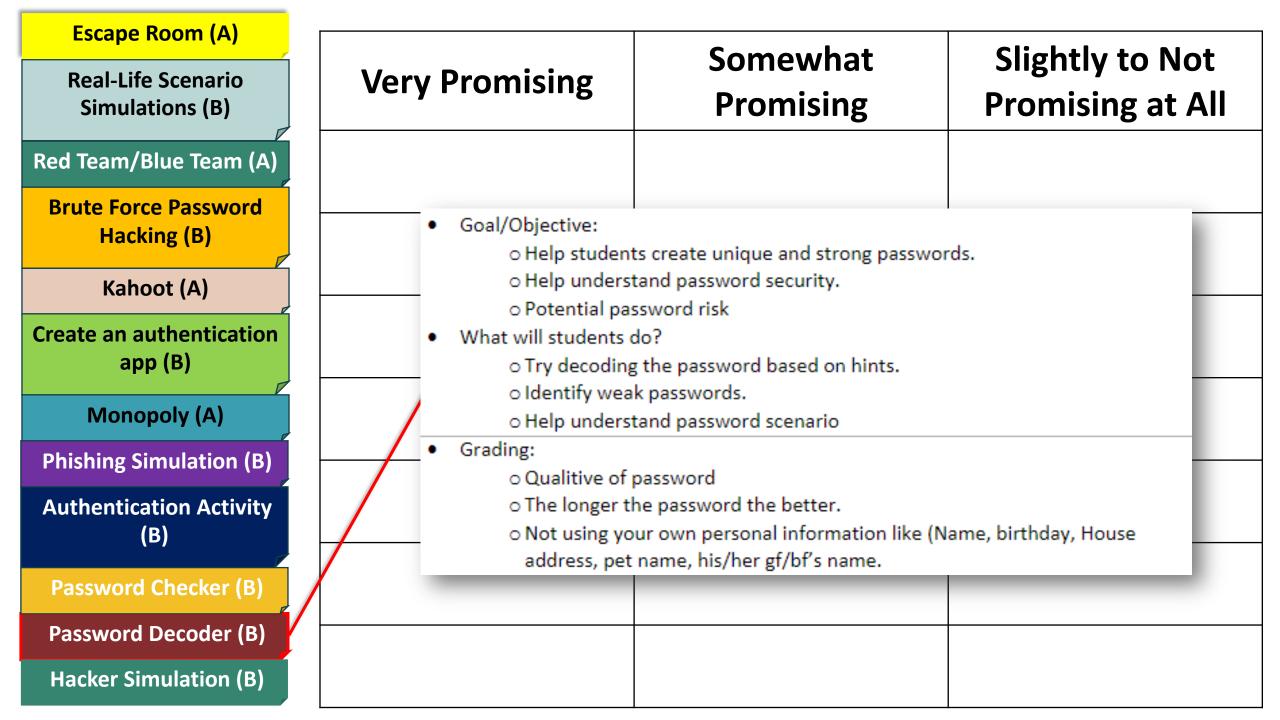


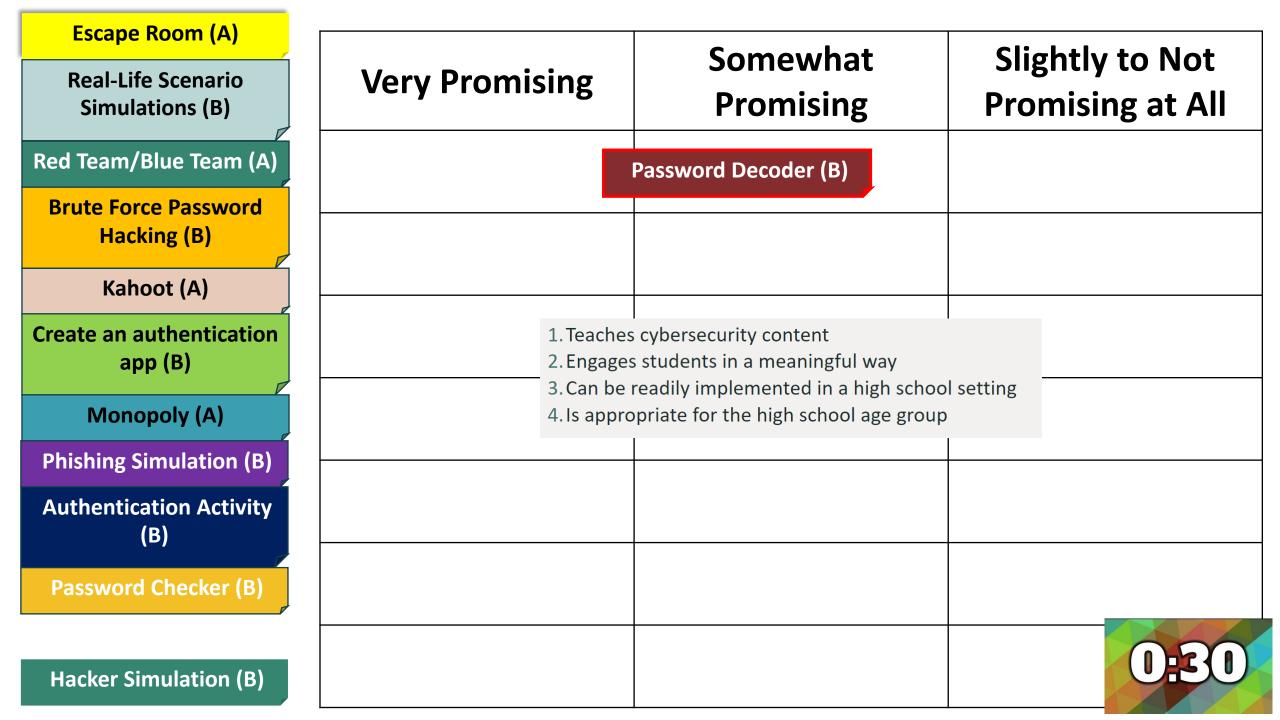


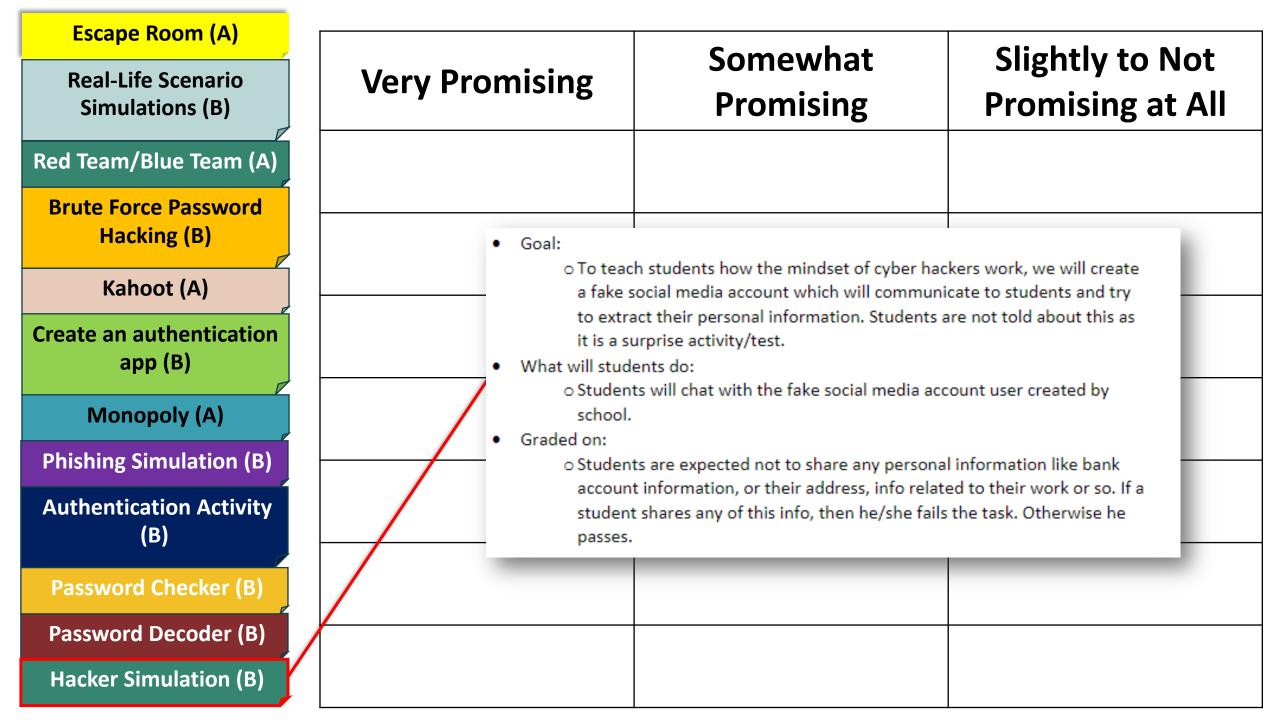
Escape Room (A) Real-Life Scenario Simulations (B)	Very Promising	Somewhat Promising	Slightly to Not Promising at All	
Red Team/Blue Team (A) Brute Force Password	Authentication Activity (B)			
Hacking (B) Kahoot (A)				
Create an authentication app (B)	1. Teaches cybersecurity content2. Engages students in a meaningful way3. Can be readily implemented in a high school setting			
Monopoly (A) Phishing Simulation (B)	4. Is appropriate for the high school age group			
Password Checker (B) Password Decoder (B)				
Hacker Simulation (B)				



Escape Room (A) Real-Life Scenario Simulations (B)	Very Promising	Somewhat Promising	Slightly to Not Promising at All
Red Team/Blue Team (A)		Password Checker (B)	
Brute Force Password Hacking (B)			
Kahoot (A)			
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Password Decoder (B)			0.20
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Password Checker (B)			
Password Decoder (B)			0:30

Final Comments

• Thank You!

Your participation in this study is greatly appreciated. Have a great rest of your day!