



***Securing the Human:  
Cybersecurity  
Education Program***



*Brian Freund*



Santa Clara County  Office of Education

**Brian Freund**

Analytical | Adaptability | Input | Responsibility | Intellection

**Cybersecurity Education Program**

**“Securing the Human”**

Champions for Leadership

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# Personal Goals for CFL

- Learn project management skills
- Increase skills in networking and security technologies
- Opportunity to interact with other CFL candidates and to collaborate with colleagues outside of my department





# Project Goals for CFL

- Create a campaign of awareness of the project
- Benchmark organizational security awareness to create a baseline
- Educate staff utilizing online framework and media so they can learn to actively recognize, prevent and report security incidences and suspicious activity.





# CYBERSECURITY EDUCATION PROGRAM

Santa Clara County  Office of Education



# Assembly Bill 104



Santa Clara County  
Office of Education



# Scary Facts

- Since January 2016 K-12 Institutions have had 316 cyber incidents...





75% - 91% of intrusion vectors  
target **human behavior...**  
**NOT machines!**



Center for  
Internet Security®

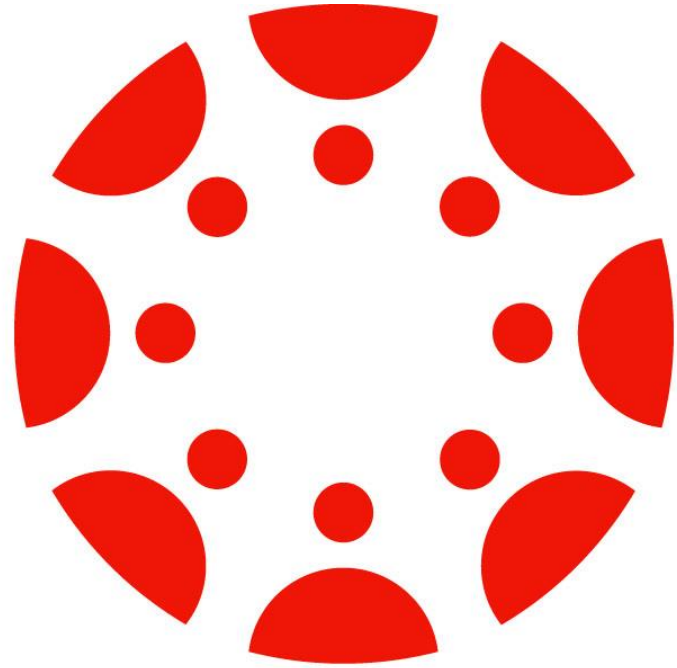




## How is it done?

- Indiscriminate use of social media
- Social engineering
- Phishing
- Weak passwords
- Password reuse across sites





canvas





Account



Dashboard



Courses



Calendar



Inbox



Help

Home

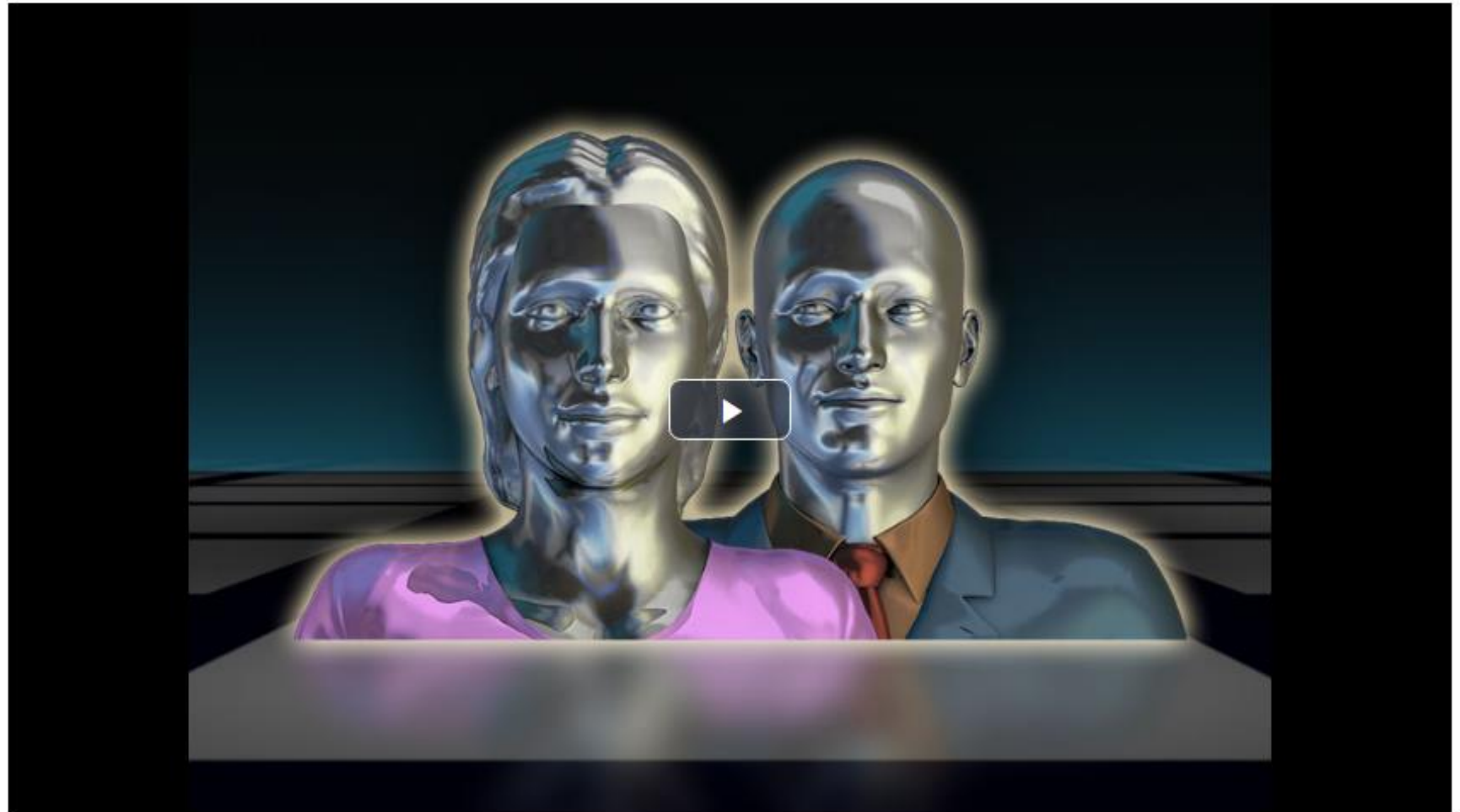
Modules

Grades

Cybersecurity Tips



### You Are The Shield



# Simple quizzes after each video...



STH > Assignments > Email, Phishing, & Messaging



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## Email, Phishing, & Messaging -- Quiz

If you are suspicious about an email from someone you know, what should you do?

- Reply to their email and ask them to verify they sent you the email
- Call them on the phone to verify they sent you the email
- Click on a link in the email to verify its authenticity

Submit Answer

Next Question



# Microcerts (Badges)





# Topics

- Social engineering
- Email & messaging
- Browsing
- Social networks
- Mobile device security
- Passwords
- Data security
- Hacking
- Encryption
- Ethics
- Data destruction
- Wi-Fi security
- Working remotely
- Insider threats
- Physical security
- Protecting children
- Cloud security
- FERPA
- PII
- Privacy





# Phishing Outcomes

- Out of 407 Ridder Park Staff in the Pilot Group: 55 people actually opened the email (14%), 26 clicked on the first Phishing Assessment. 6% failure rate!
- Using the assessment, we identified a member of our staff using an out of date Flash player which is a potential vulnerability.





# Accomplishments/Successes

- Started conversations about data security with other teams
- Created plans with my mentor and manager to create a website, newsletter, posters
- Took TAPD Coursework in: Security, Penetration Testing, Firewall Configuration, Networking and Group Policy Management







# Challenges

- Underestimated the size of the project!
- Unexpected dependencies
- Proactive about deadlines
- Delegation of duties
- People don't like extra work





# Kudos!

- Monica Dvorsky and Phil Benfield
- Vince Tran and David Huie – Networking Team
- Eric Sandoval and Cindy Patterson
- Peter Daniels, Summer Reeves, Mike Bromberg
- My CFL Cohort and Dr. Brooks
- Everybody participating in our Ridder Park Pilot Group!

