

# Cyber Threats and Digital Protection

Why do smart people still get hacked?



 DATA BREACH

 PASSWORD  
STOLEN  
\*\*\*\*\*

 PHISHING  
ATTACK

 MALWARE  
DETECTED

 Smart Choices  
Safe Actions  
Secure Future

 GRADE 10 (M4)  
COMPUTER SCIENCE

M4U1P1  AWARE

 PROTECT

 RESPECT

Think Before You Click.  
Protect What Matters. 



# Which Student Is Most At Risk?



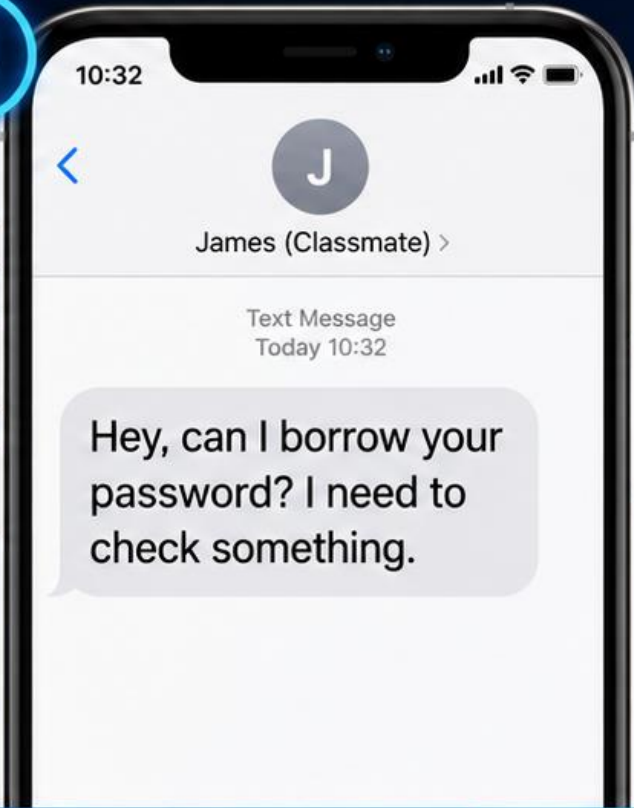
1



2



3



Which message is most dangerous?  
Which one would people fall for?





# Why Do Smart People Get Tricked?



## Fear

They scare you into acting without thinking.



## Greed

They attract you with promises of money, gifts or rewards.



## Curiosity

They lure you with something interesting or unexpected.



## Trust

They pretend to be someone you know or a trusted source.



## Urgency

They pressure you to act fast before you can think.



Hackers attack our **emotions** first.





# What Is a Cyber Threat?



## 1. Phishing

Tricks you into giving personal information.



## 2. Online Scams

Tricks you into giving money or valuables.



## 3. Malware

Harmful software that can damage devices or steal information.



## 4. Password Theft

Steals your passwords and gives attackers access to your accounts.



Cyber threats can **steal**, **trick**, or **damage**.





# CYBER THREAT

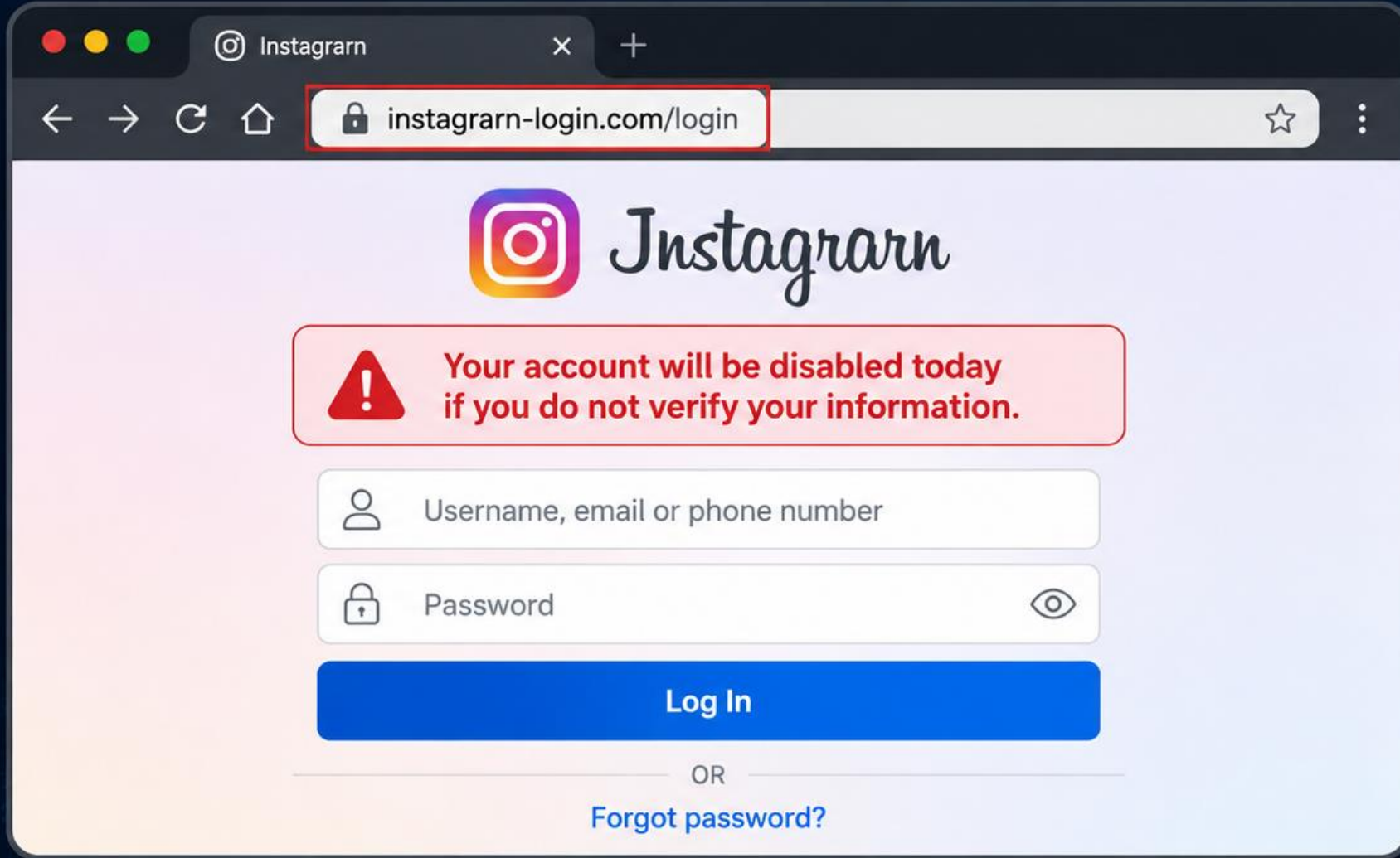
- A cyber threat is something online that can:
  - steal information,
  - damage devices,
  - trick people,
  - or cause harm

# COMMON ONLINE THREATS

Threat	Meaning
Malware	Harmful software
Phishing	Fake messages/websites
Password theft	Someone tries to steal passwords
Online scams	Tricks to steal money/accounts
Harmful content	Unsafe or inappropriate content



# Phishing Investigation



What clues show this website is fake?

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**FAKE**



**THINK BEFORE YOU CLICK!**

Always check URLs carefully. Look for unusual spelling, extra words, or suspicious domains.



Stay Smart. Stay Secure.



# Phishing Investigation



1

instagramn-login.com/login

Instagram 3

! Your account will be disabled today if you do not verify your information. 2

4 Username, email or phone number

Password

Log In

OR

Forgot password?



## What clues show this website is fake?

- 1. Strange URL
- 2. Pressure
- 3. Unusual spelling
- 4. Asks for login
- \_\_\_\_\_

**FAKE**





# SPOT THE RED FLAGS



**URGENT: Action Required – Verify Your Account Now** Inbox x ☆ ↶ ⋮

**1** → **From:** Security Alert <secure-update@account-verify365.com>  
**To:** student@schoolmail.com  
**Date:** May 21, 2025 at 9:17 AM

Dear Valued User,

**2** → We have detected unusual activity on your account and your access will be **SUSPENDED** within **24 HOURS** if you do not verify your account immediately.

To prevent loss of access to your email and files, please click the link below and sign in to confirm your identity now.

**3** → <https://secure-update365.com/verify/login.php?session=8f3d92>  
(Click the link above to restore your access)

**4** → For your security, please enter your **email password** on the next page to verify your account.

If you do not complete this process, your account will be permanently locked.

Thank you,  
**Account Security Team**  
*We're here to keep you secure.*

← **5**

This message was sent to you automatically. Please do not reply to this email.



## WARNING SIGNS

**1** [Redacted]

**2** [Redacted]

**3** [Redacted]

**4** [Redacted]

**5** [Redacted]





# SPOT THE RED FLAGS



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## WARNING SIGNS

**1** Unusual sender  
(not the official email)

**2** Urgent language  
creates pressure

**3** Suspicious link  
(hover to check URL)

**4** Asks for password

**5** Spelling / grammar  
mistakes





# New Cyber Threats: AI Scams

1

## AI Voice Cloning



Uses AI to copy someone's voice and trick you into sending money or info.



2

## Deepfake Videos



AI can make fake videos that look real and say things that never happened.



3

## Fake AI Images

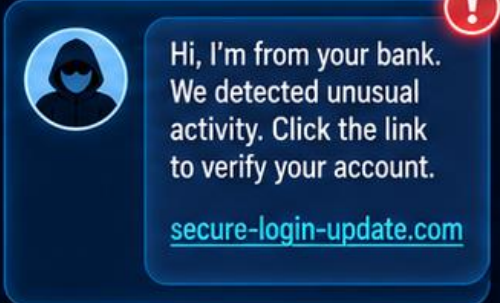


AI creates fake photos that look real but are completely made up.



4

## AI-Generated Scam Messages



AI writes convincing emails and texts to trick you into clicking links or sharing info.



  **Be smart. Question everything.** 

# WHAT IS PASSWORD PROTECTION?

\* \* \* \* \*










# PASSWORD STRENGTH

GRADE 10 (M4)  
COMPUTER SCIENCE



PASSWORD	STRENGTH
123456	 <b>Very Weak</b>
football	 <b>Weak</b>
mario123	 <b>Medium</b>
Dragon2026!	 <b>Strong</b>
T!ger2026#	 <b>Very Strong</b>



Longer passwords with letters, numbers, and symbols are stronger.

# HOW TO MAKE STRONG PASSWORDS

- ✓ long – min 8
- ✓ symbols - @!.,\*()#\$%
- ✓ numbers
- ✓ mixed letters





# Build a Strong Password

Favorite Word



+

Number



+

Symbol



=

Strong Password



Dragon

+

2026

+

#

=

Dragon2026#

**AVOID USING:**



Birthdays



Phone  
Numbers



School  
Names

# PASSWORD CHALLENGE

Which password is strongest?

A football

B 12345678

C Cat!Pizza92

D qwerty

# PASSWORD CHALLENGE

Which password is strongest?

A football

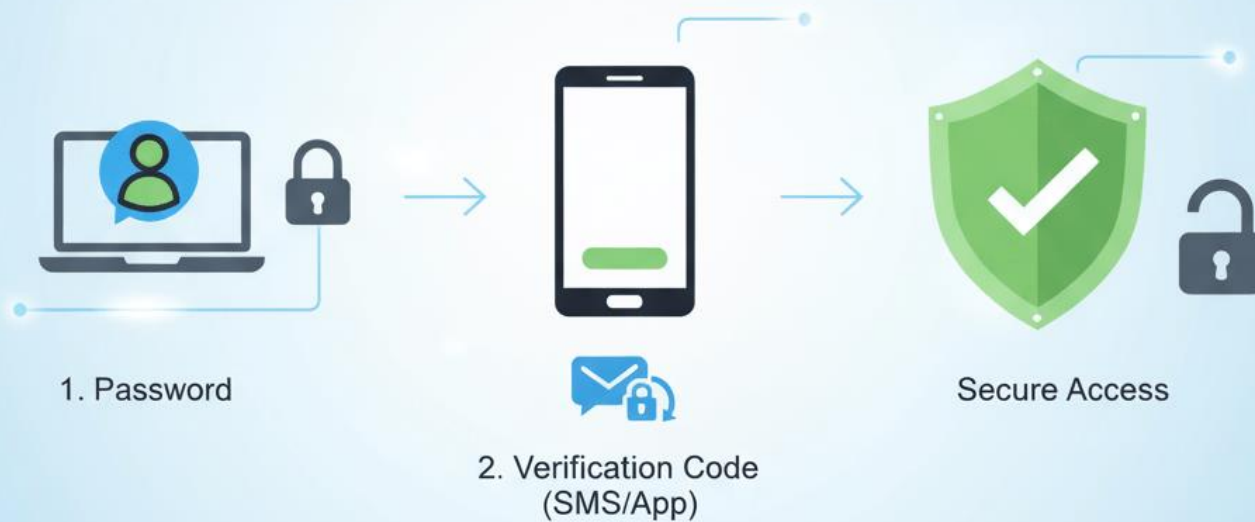
B 12345678

C Cat!Pizza92

D qwerty

# WHAT IS TWO-FACTOR AUTHENTICATION?

## Two-Factor Authentication (2FA)

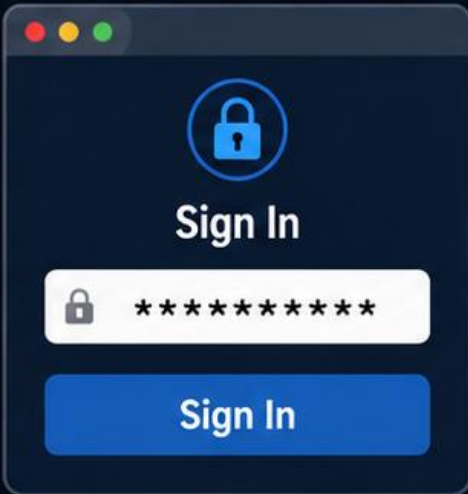


# Two-Factor Authentication (2FA)



1


Enter Password



Sign In

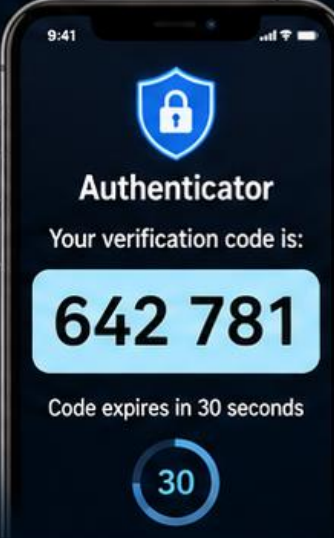
\*\*\*\*\*

Sign In

 You enter your username and password.

2

Receive Code on Your Phone




Authenticator

Your verification code is:

**642 781**

Code expires in 30 seconds

30

 A code is sent to your phone. Enter the code to continue.

3

Access Granted!





**Welcome!**

Your account is secure.

 \_\_\_\_\_

\_\_\_\_\_

 You're in! Your account is protected.

Access Denied



Even with the password, they can't get in without your phone.



Even if someone **steals your password**, they still need your phone.



# Case Study: One Weak Password, Many Problems

DATA BREACH



ACCESS GAINED

WEAK PASSWORD

**football123**

\*\*\*\*\*

SAME PASSWORD REUSED  
ACROSS ACCOUNTS

Social Media COMPROMISED

Email COMPROMISED

School Account COMPROMISED

Gaming COMPROMISED

Shopping COMPROMISED

THINK & DISCUSS

1 What **mistake** did the student make?

2 What could happen **next**?

3 How could this be **prevented**?

BREACH HAPPENS  
ON ONE ACCOUNT



One weak password can open the door to **many problems**.  
Use strong, unique passwords for every account.



# DISCUSSION TIME

## DANGEROUS OR SAFE?



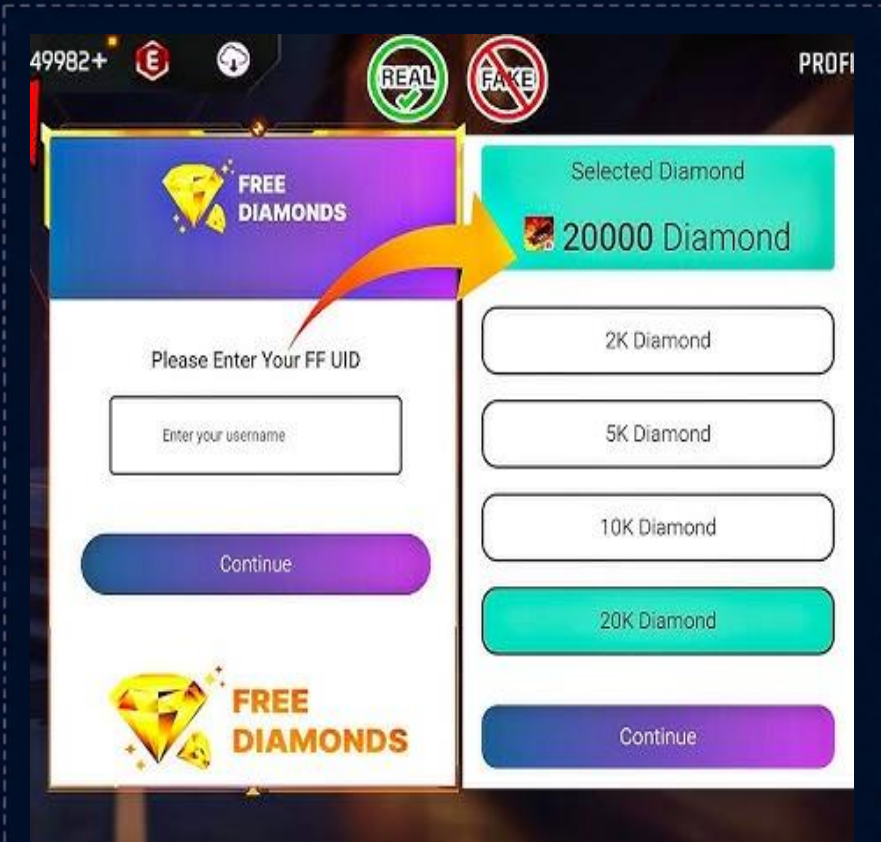


# Cyber Security Scenario

0 1 0 1  
1 0 1 1 1  
1 0 1



## Free Fire Free Diamond Hack



### Scenario Text

Your friend sends you a link to download a Free Fire hack that gives you unlimited diamonds. You just have to enter your Free Fire username and password.



1. What is the threat?



2. Why is it dangerous?



3. What should you do?



# Cyber Security Scenario

0 1 0 1  
1 0 1 1 1  
1 0 1



## Random QR Code



### Scenario Text

A student sees a QR code sticker on a wall near the school canteen.

The text says:

“Scan here to get free internet data!”

The QR code opens a website asking students to enter their phone number, email, and password.



1. What is the threat?



2. Why is it dangerous?



3. What should you do?



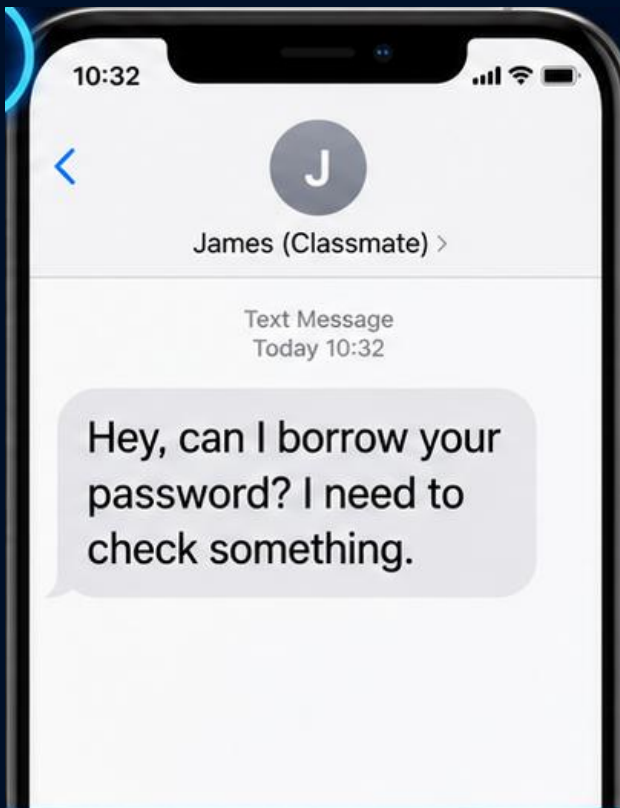
# Cyber Security Scenario



0 1 0 1  
1 0 1 1 1  
1 0 1



## Friend Wants Password



### Scenario Text

Your close friend sends you a message:

“Can I borrow your account password? I only need it for 5 minutes. I promise I won’t change anything.”

They say they need it because their own account is not working.



1. What is the threat?



2. Why is it dangerous?



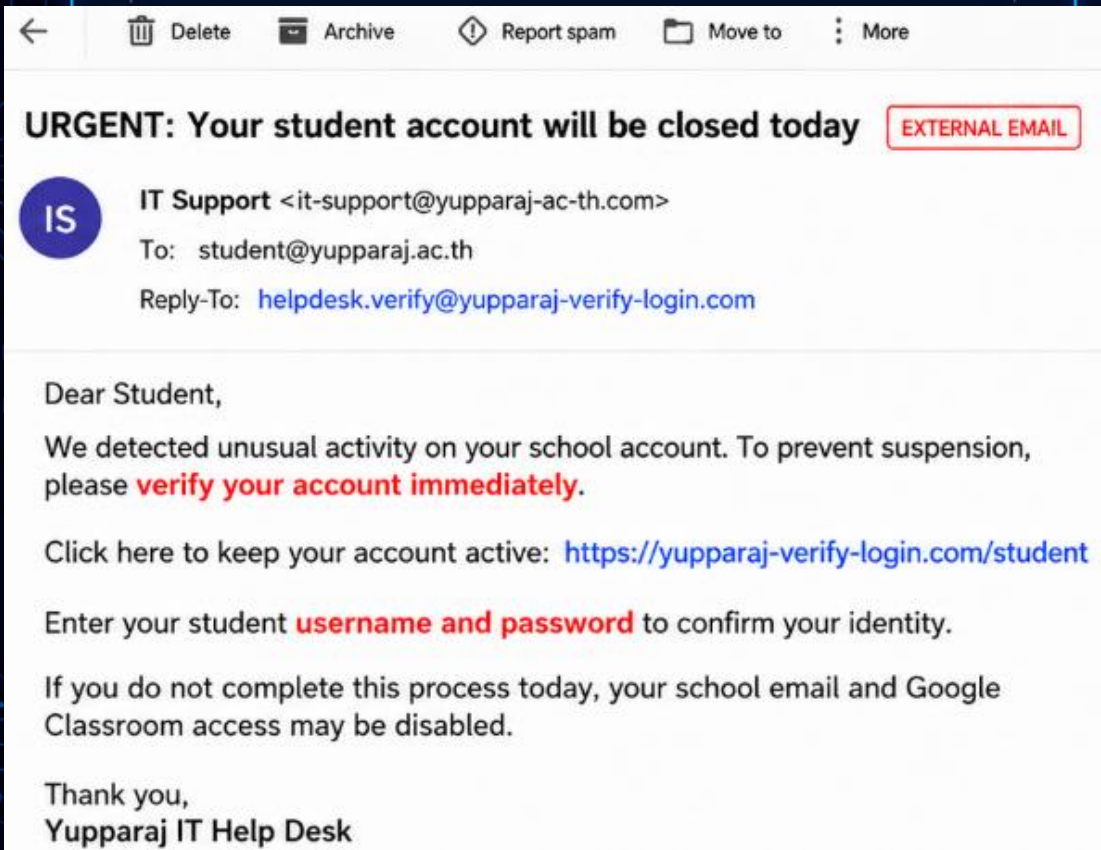
3. What should you do?



# Cyber Security Scenario



## Fake School Email



### Scenario Text

You have received this email from the school, or at least it looks like it is from the school...



1. What is the threat?



2. Why is it dangerous?



3. What should you do?



# Smart Online Habits



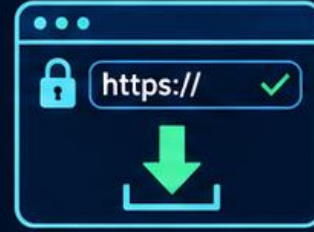
Grade 10 (M4) Computer Science

1



Use strong passwords

4



Download from trusted websites

2



Don't click suspicious links

5



Ask an adult/teacher if unsure

3



Never share passwords

6



Keep software updated



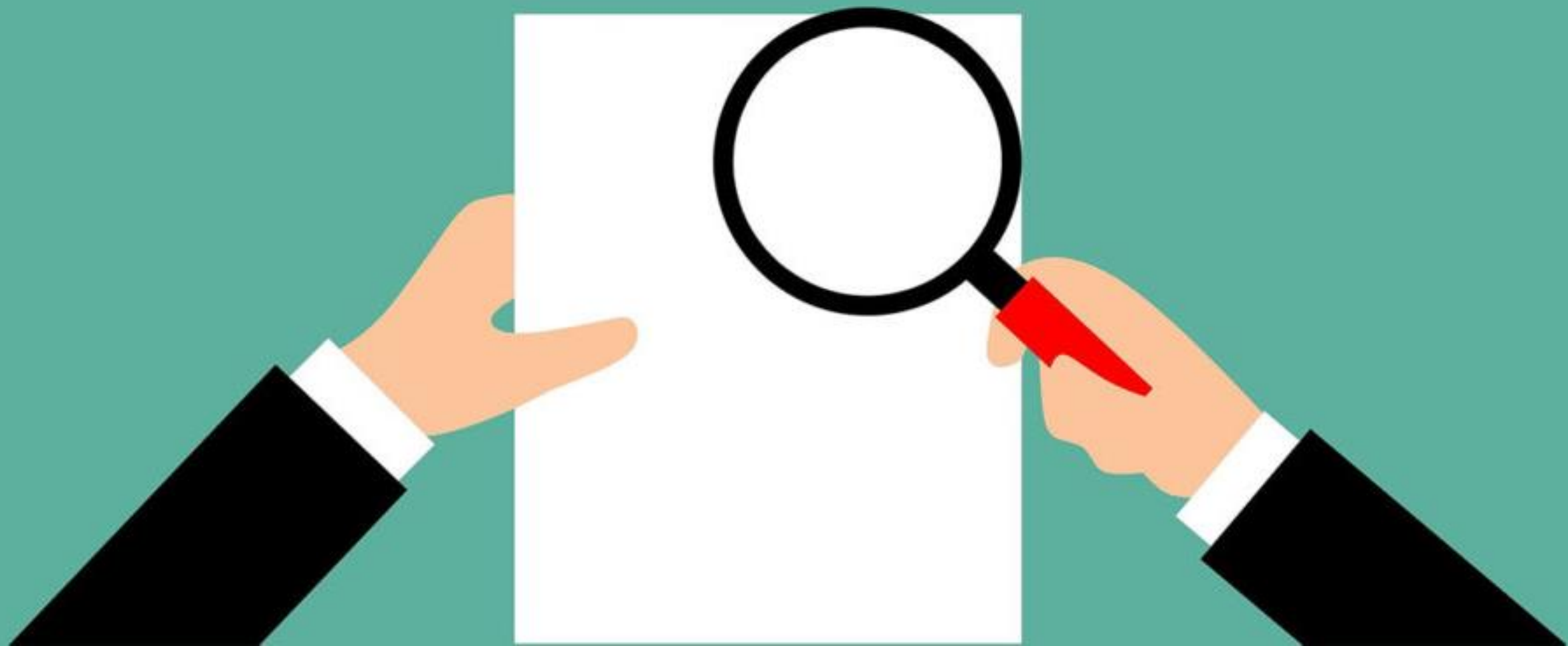
Think Before You Click. Stay Safe Online.



The image features a dark blue gradient background with white circuit-like lines in the corners. These lines consist of straight paths that branch out and terminate in small circles, resembling a network or data flow diagram. The lines are positioned in the top-left, top-right, bottom-left, and bottom-right corners, framing the central text.

**ANY QUESTIONS?**

# Review



# QUICK REVIEW

- What is phishing?
- Name one cyber threat.
- Why use strong passwords?
- What is 2FA?
- Should passwords be shared?



**THE END**