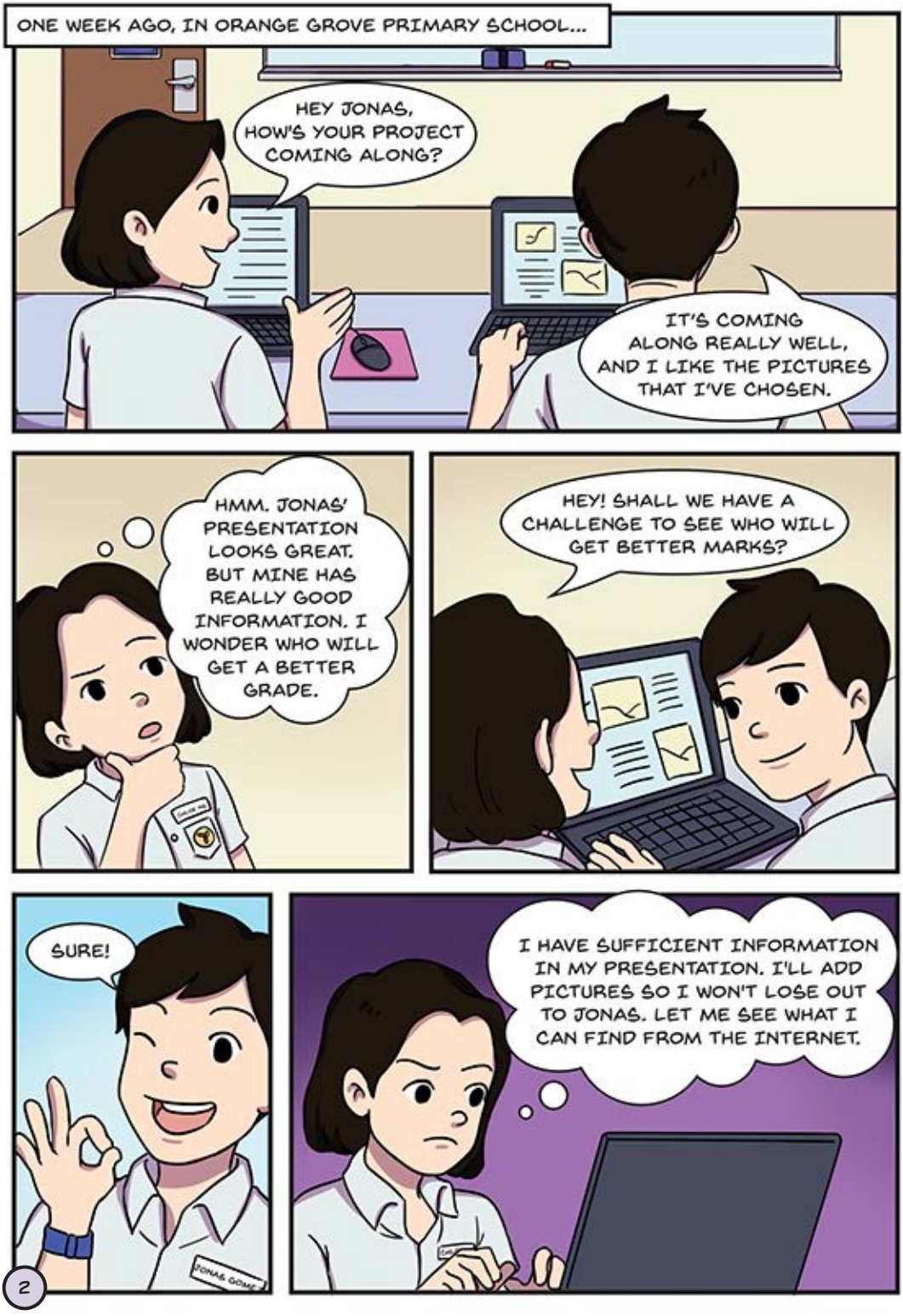
CYBER SAFETY
SYNTHIA
FEATURING:
THE
DEFENDERS
OF
CYBER
SPACE
ISSUE 5
CRYPTO


ONE WEEK AGO, IN ORANGE GROVE PRIMARY SCHOOL...
HEY JONAS, HOW'S YOUR PROJECT COMING ALONG?
IT'S COMING ALONG REALLY WELL, AND I LIKE THE PICTURES THAT I'VE CHOSEN.
HMM. JONAS' PRESENTATION LOOKS GREAT. BUT MINE HAS REALLY GOOD INFORMATION. I WONDER WHO WILL GET A BETTER GRADE.
HEY! SHALL WE HAVE A CHALLENGE TO SEE WHO WILL GET BETTER MARKS?
SURE!
I HAVE SUFFICIENT INFORMATION IN MY PRESENTATION. I'LL ADD PICTURES SO I WON'T LOSE OUT TO JONAS. LET ME SEE WHAT I CAN FIND FROM THE INTERNET.

To: Chloe Ng <chloelovescats@reallymail.com>
From: Many Free Pictures <account.many@fr33photos.net>
Subject: URGENT: VERIFY ACCOUNT IMMEDIATELY FOR FREE PHOTOS

free-photos-for-you.exe

Dear Valued Customer

Thank you for visiting manyfreephotos.com. Your account will be deleted in the next 24 hours if you do not verify your details by clicking on the link below:
www.manyfreephotosaccount.com

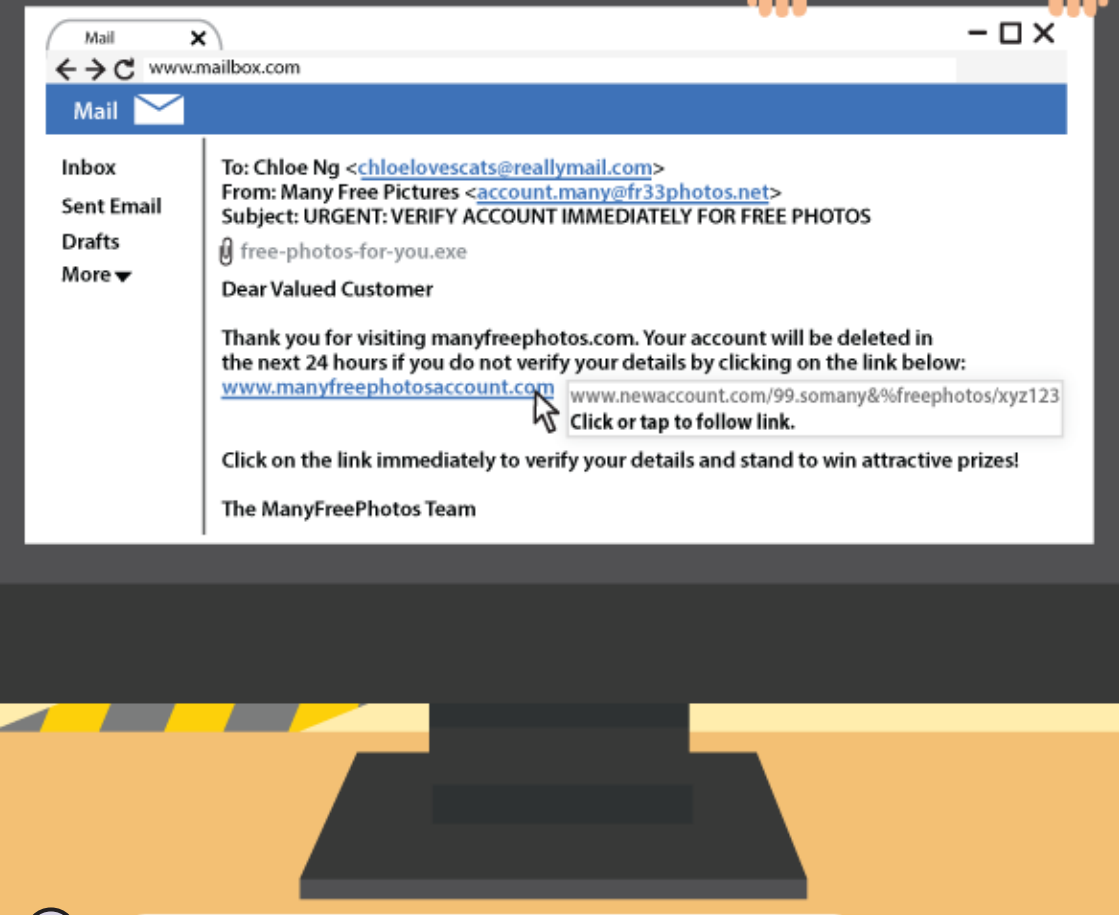
Click on the link immediately to verify your details and stand to win attractive prizes!

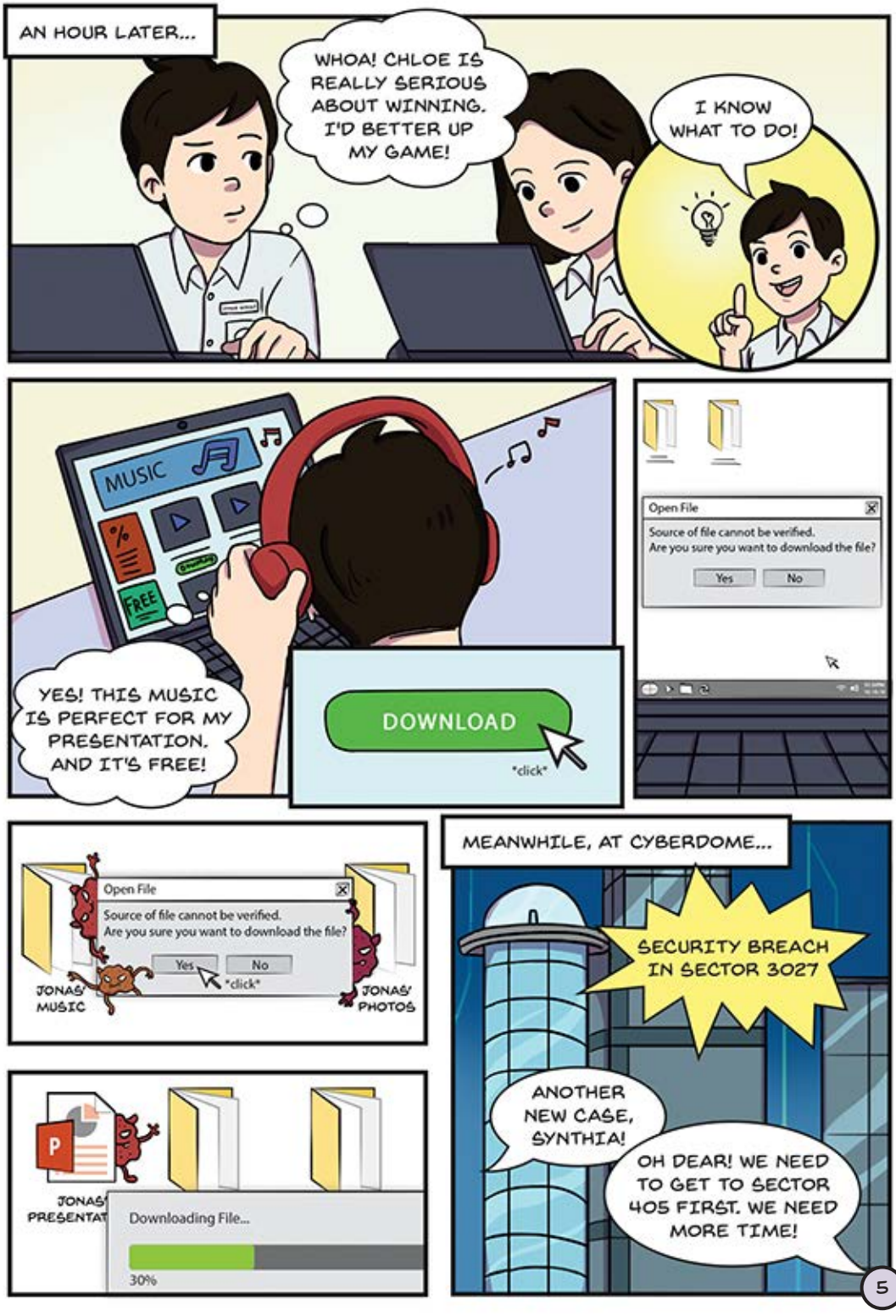
The ManyFreePhotos Team

FISHY PHISHING

Discuss with a friend the 4 signs that indicate this is a phishing email. Circle the signs.

1. Mismatched and misleading information
2. Use of urgent or threatening language
3. Promises of attractive rewards
4. Suspicious attachments

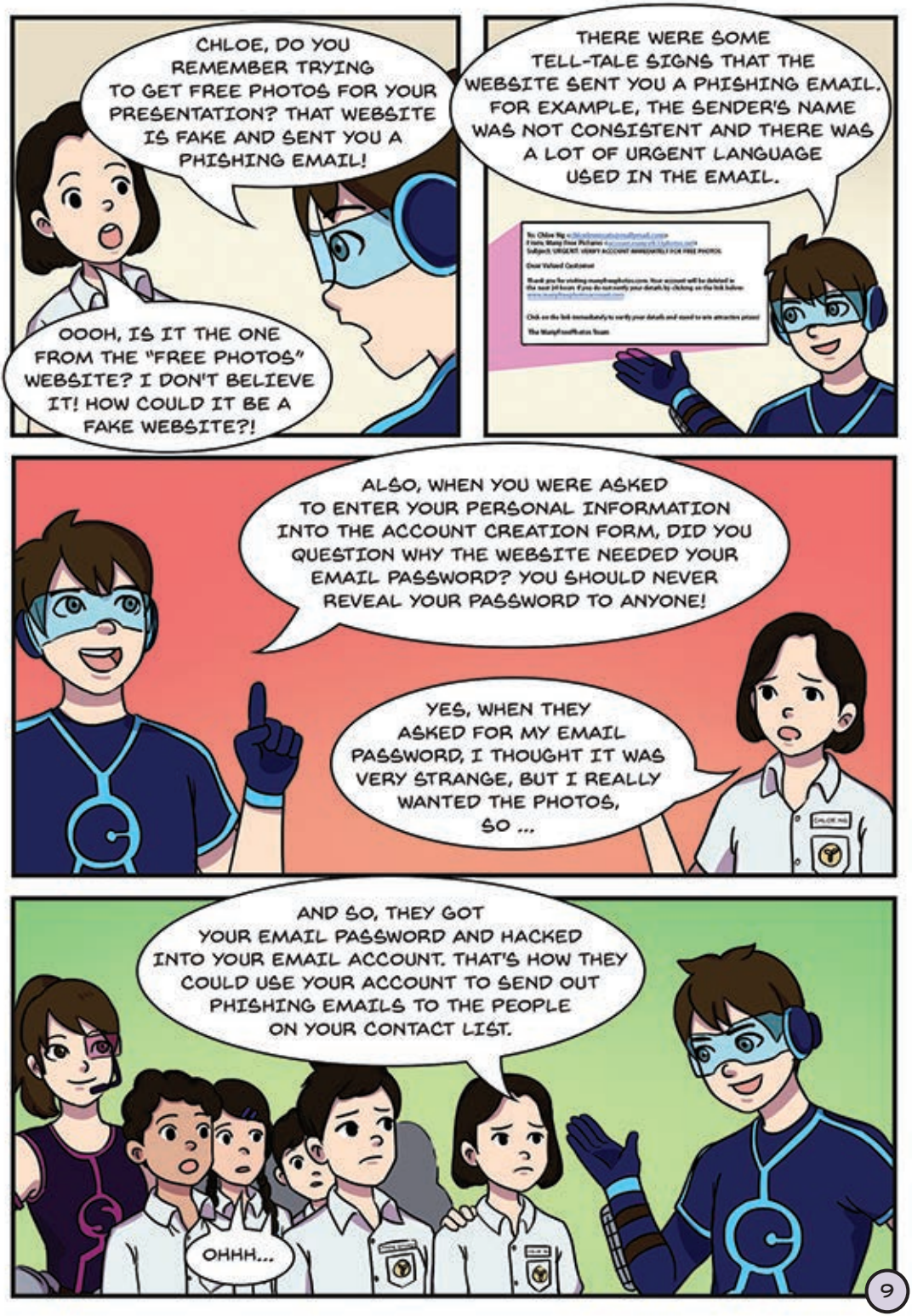


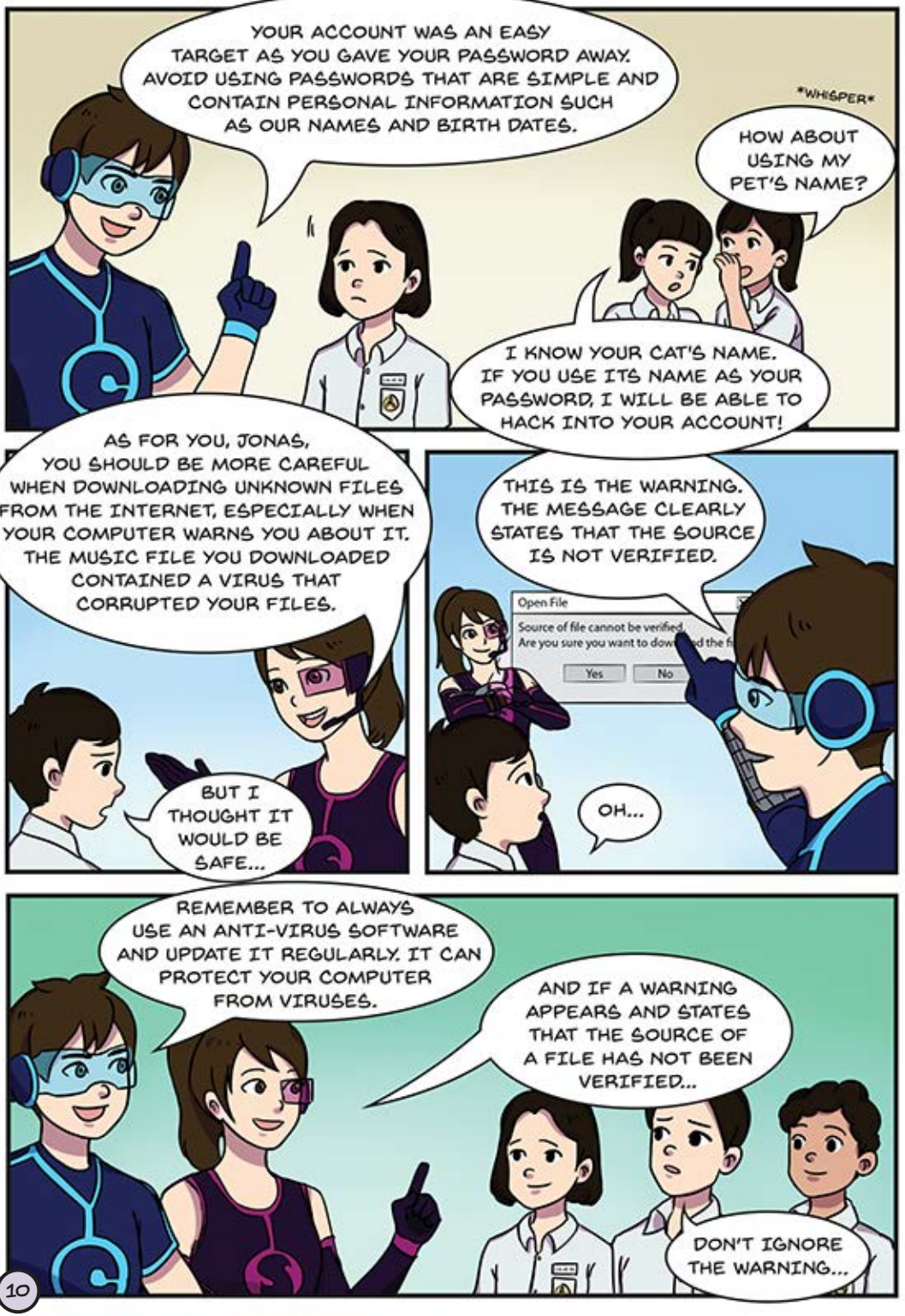

AN HOUR LATER...
WHOA! CHLOE IS REALLY SERIOUS ABOUT WINNING. I'D BETTER UP MY GAME!
I KNOW WHAT TO DO!
MUSIC
FREE
YES! THIS MUSIC IS PERFECT FOR MY PRESENTATION. AND IT'S FREE!
DOWNLOAD
click
Open File
Source of file cannot be verified.
Are you sure you want to download the file?
Yes
No
Open File
Source of file cannot be verified.
Are you sure you want to download the file?
Yes
No
click
JONAS' MUSIC
JONAS' PHOTOS
MEANWHILE, AT CYBERDOME...
SECURITY BREACH IN SECTOR 3027
ANOTHER NEW CASE, SYNTHIA!
OH DEAR! WE NEED TO GET TO SECTOR 405 FIRST. WE NEED MORE TIME!
JONAS' PRESENTAT
Downloading File...
30%

THE NEXT DAY...
JONAS' PRESENTATION
I CAN'T OPEN MY PRESENTATION! AND IT'S DUE THE NEXT PERIOD! AAARRGGHHH! WHAT'S HAPPENING?
CHLOE NG
HEY CHLOE! MY COMPUTER HAS GOTTEN A VIRUS BECAUSE OF THE STRANGE EMAILS YOU SENT ME!
I RECEIVED WEIRD EMAILS FROM YOU TOO, CHLOE!
HUH? WHAT??
ME TOO! WHY ARE YOU SENDING US STRANGE EMAILS?

WHAT IS HAPPENINGGGG?????
CHLOE! DID YOU DO SOMETHING TO MY PRESENTATION??
I DID NOT DO ANYTHING!
YES, YOU DID! YOUR EMAILS INFECTED MY COMPUTER AT HOME!
MEANWHILE, IN CYBERDOME...
PHEW! HAVE WE RESPONDED TO ALL THE BREACHES?
I SURE HOPE SO ...
AIDEM
ARTIFICIAL INTELLIGENCE DEFENSE MECHA

SECURITY BREACH ALERT IN SECTOR 3027
WHAT? NOT AGAIN?! GIVE ME A BREAK!
LET'S GO TO THEIR RESCUE NOW! WE'VE BEEN SO BUSY WITH RECENT BREACHES, WE DIDN'T MANAGE TO STOP THIS CASE IN TIME!
I'M CRYPTO AND SHE IS SYNTHIA, AND WE ARE HERE TO HELP!
THERE'S NO POINT IN BLAMING EACH OTHER. ACTUALLY BOTH OF YOU CAUSED THIS PROBLEM.
WHAT? HOW? WHAT DID WE DO WRONG?
WE CAUSED THIS?


CHLOE, DO YOU REMEMBER TRYING TO GET FREE PHOTOS FOR YOUR PRESENTATION? THAT WEBSITE IS FAKE AND SENT YOU A PHISHING EMAIL!
OOOH, IS IT THE ONE FROM THE "FREE PHOTOS" WEBSITE? I DON'T BELIEVE IT! HOW COULD IT BE A FAKE WEBSITE?!
THERE WERE SOME TELL-TALE SIGNS THAT THE WEBSITE SENT YOU A PHISHING EMAIL. FOR EXAMPLE, THE SENDER'S NAME WAS NOT CONSISTENT AND THERE WAS A LOT OF URGENT LANGUAGE USED IN THE EMAIL.
ALSO, WHEN YOU WERE ASKED TO ENTER YOUR PERSONAL INFORMATION INTO THE ACCOUNT CREATION FORM, DID YOU QUESTION WHY THE WEBSITE NEEDED YOUR EMAIL PASSWORD? YOU SHOULD NEVER REVEAL YOUR PASSWORD TO ANYONE!
YES, WHEN THEY ASKED FOR MY EMAIL PASSWORD, I THOUGHT IT WAS VERY STRANGE, BUT I REALLY WANTED THE PHOTOS, SO ...
AND SO, THEY GOT YOUR EMAIL PASSWORD AND HACKED INTO YOUR EMAIL ACCOUNT. THAT'S HOW THEY COULD USE YOUR ACCOUNT TO SEND OUT PHISHING EMAILS TO THE PEOPLE ON YOUR CONTACT LIST.
OHHH...


YOUR ACCOUNT WAS AN EASY TARGET AS YOU GAVE YOUR PASSWORD AWAY. AVOID USING PASSWORDS THAT ARE SIMPLE AND CONTAIN PERSONAL INFORMATION SUCH AS OUR NAMES AND BIRTH DATES.
WHISPER
HOW ABOUT USING MY PET'S NAME?
I KNOW YOUR CAT'S NAME. IF YOU USE ITS NAME AS YOUR PASSWORD, I WILL BE ABLE TO HACK INTO YOUR ACCOUNT!
AS FOR YOU, JONAS, YOU SHOULD BE MORE CAREFUL WHEN DOWNLOADING UNKNOWN FILES FROM THE INTERNET, ESPECIALLY WHEN YOUR COMPUTER WARNS YOU ABOUT IT. THE MUSIC FILE YOU DOWNLOADED CONTAINED A VIRUS THAT CORRUPTED YOUR FILES.
BUT I THOUGHT IT WOULD BE SAFE...
THIS IS THE WARNING. THE MESSAGE CLEARLY STATES THAT THE SOURCE IS NOT VERIFIED.
Open File
Source of file cannot be verified
Yes
No
OH...
REMEMBER TO ALWAYS USE AN ANTI-VIRUS SOFTWARE AND UPDATE IT REGULARLY. IT CAN PROTECT YOUR COMPUTER FROM VIRUSES.
AND IF A WARNING APPEARS AND STATES THAT THE SOURCE OF A FILE HAS NOT BEEN VERIFIED...
DON'T IGNORE THE WARNING...

SAY NO TO HACKERS!

Solve the Sudoku puzzle below and match the letters to the cryptogram to answer the question!

Each row, column and 3 by 3 box can only contain the numbers 1 to 9 once.

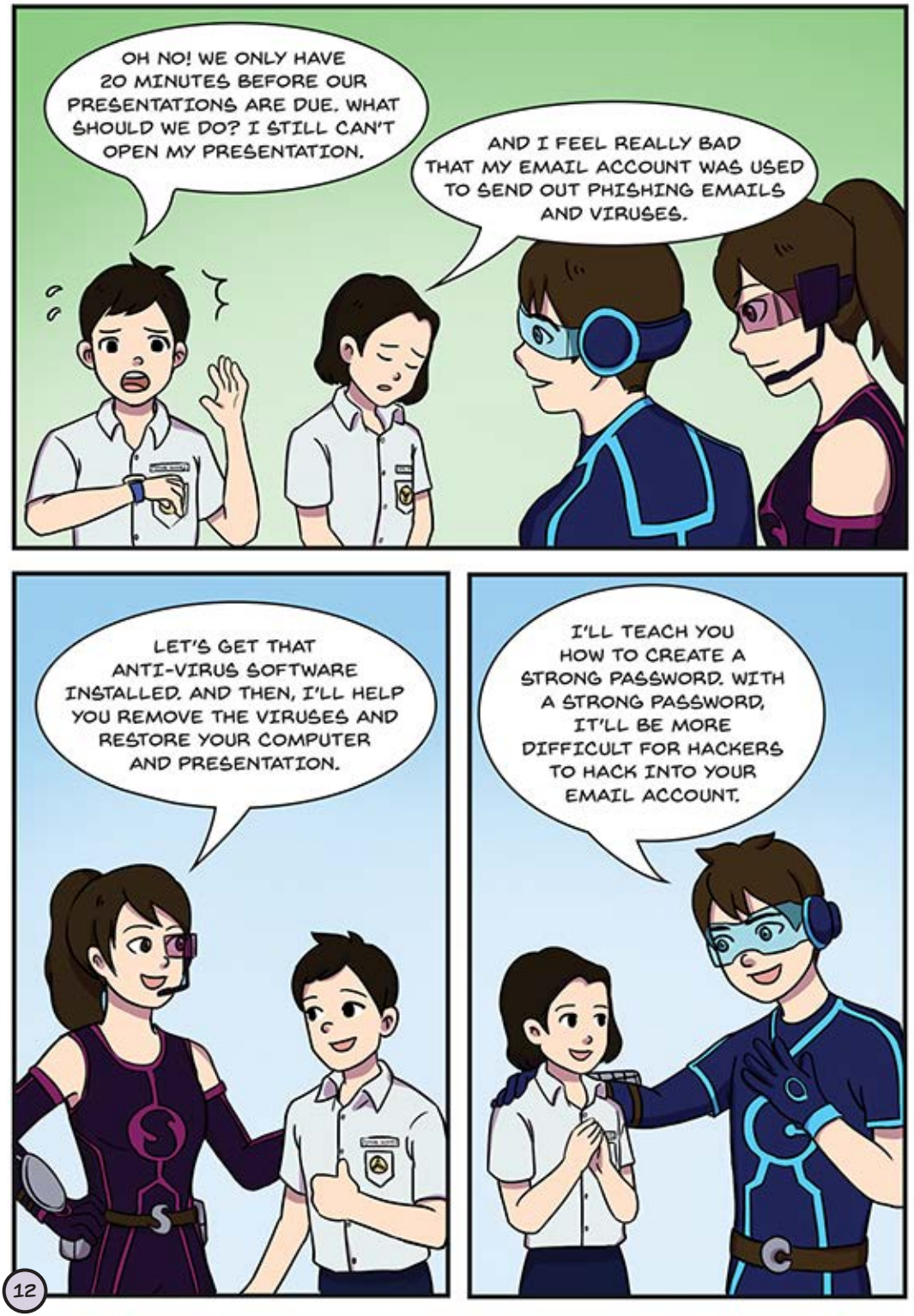
5	3			7		9		2
6			1	9	5		4	
	9	8		4			6	7
8		9		6		4		3
4	2		8		3	7		1
7		3		2	4			6
	6	1	5			2	8	
2			4	1	9			5
3		5		8			7	9

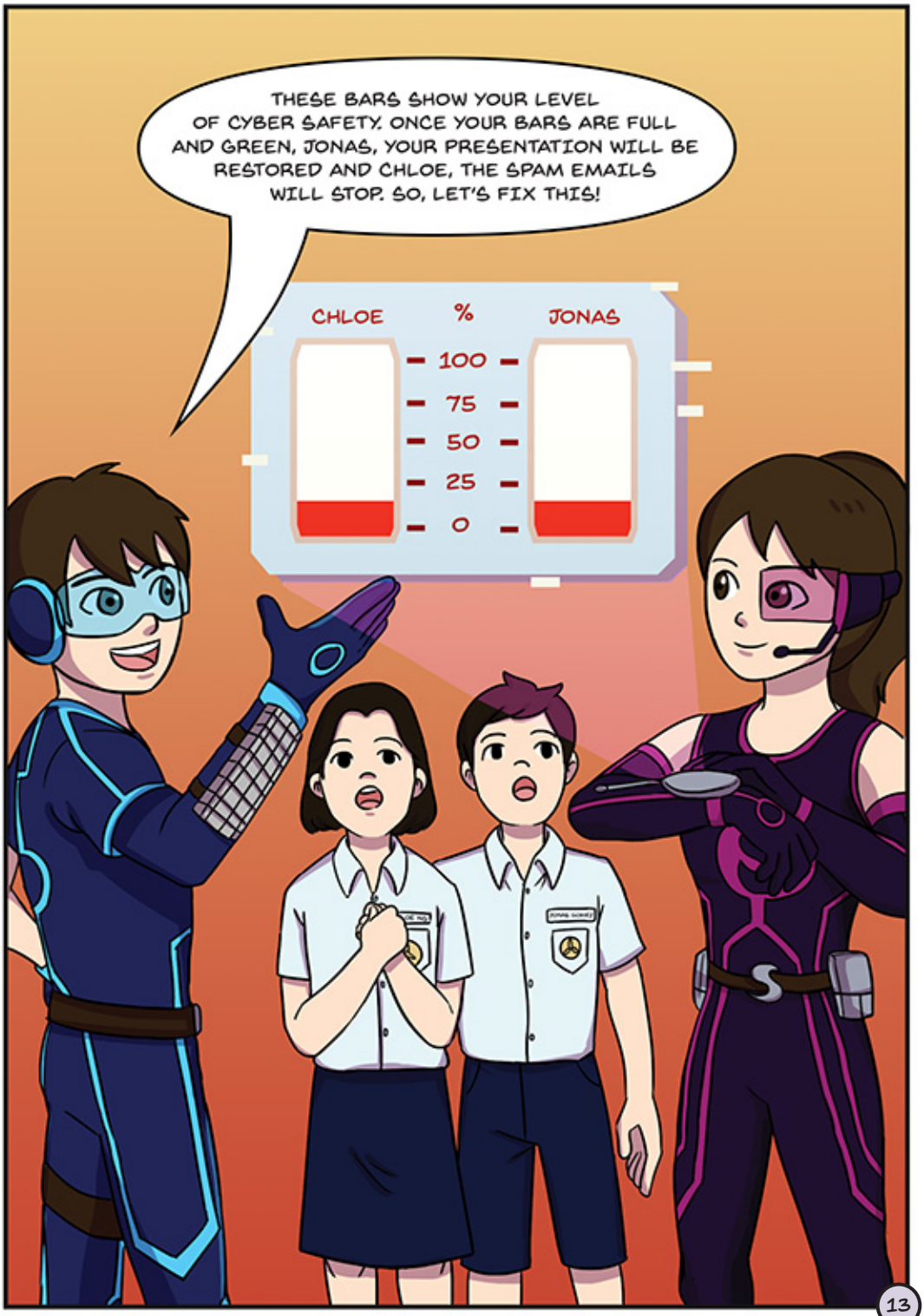
O A P T G R S W N

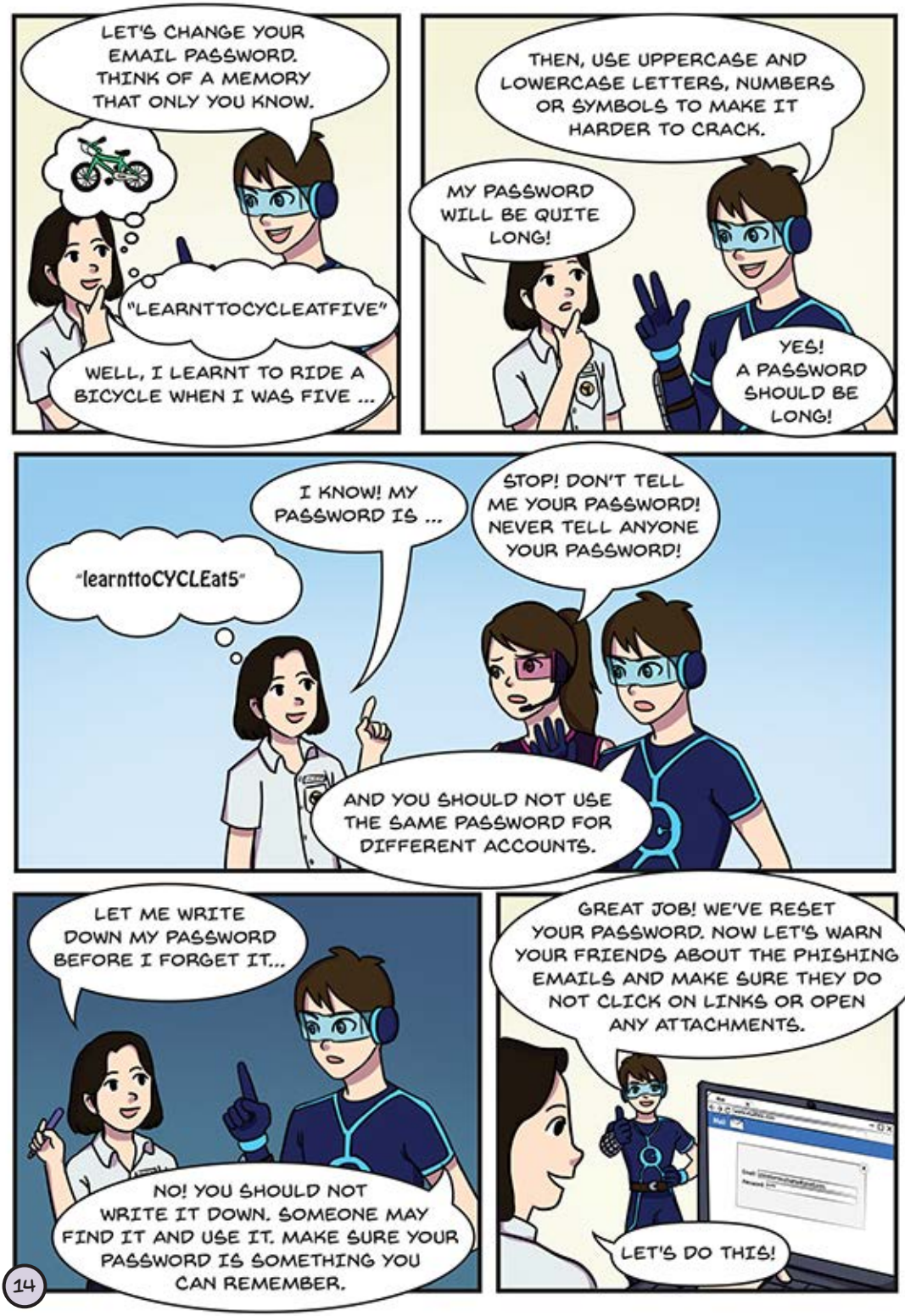
What is one way you can practise good cyber hygiene?

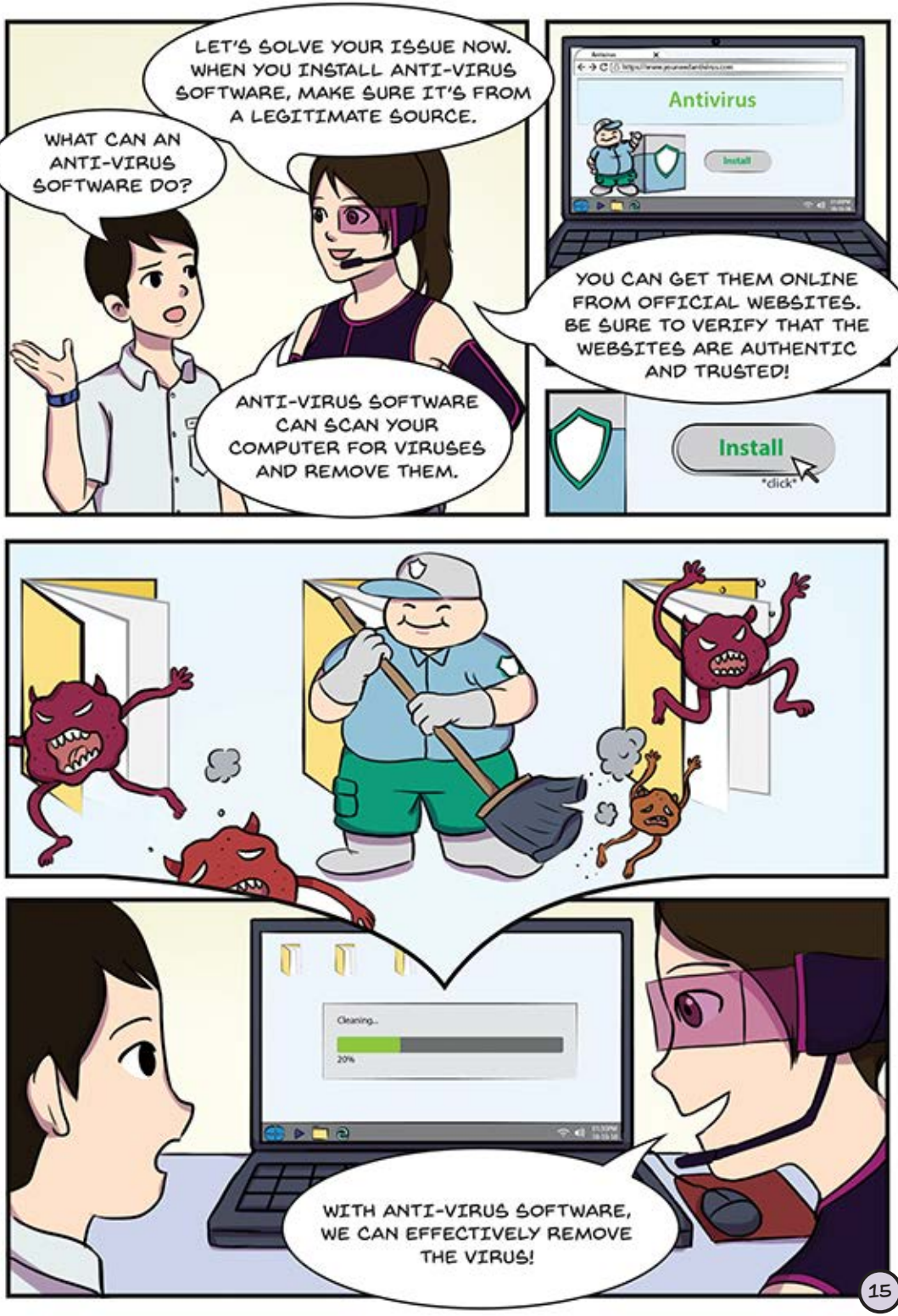
U _ E _ _ _ _ _ _ _ _ _ _ _ _ _ _ D

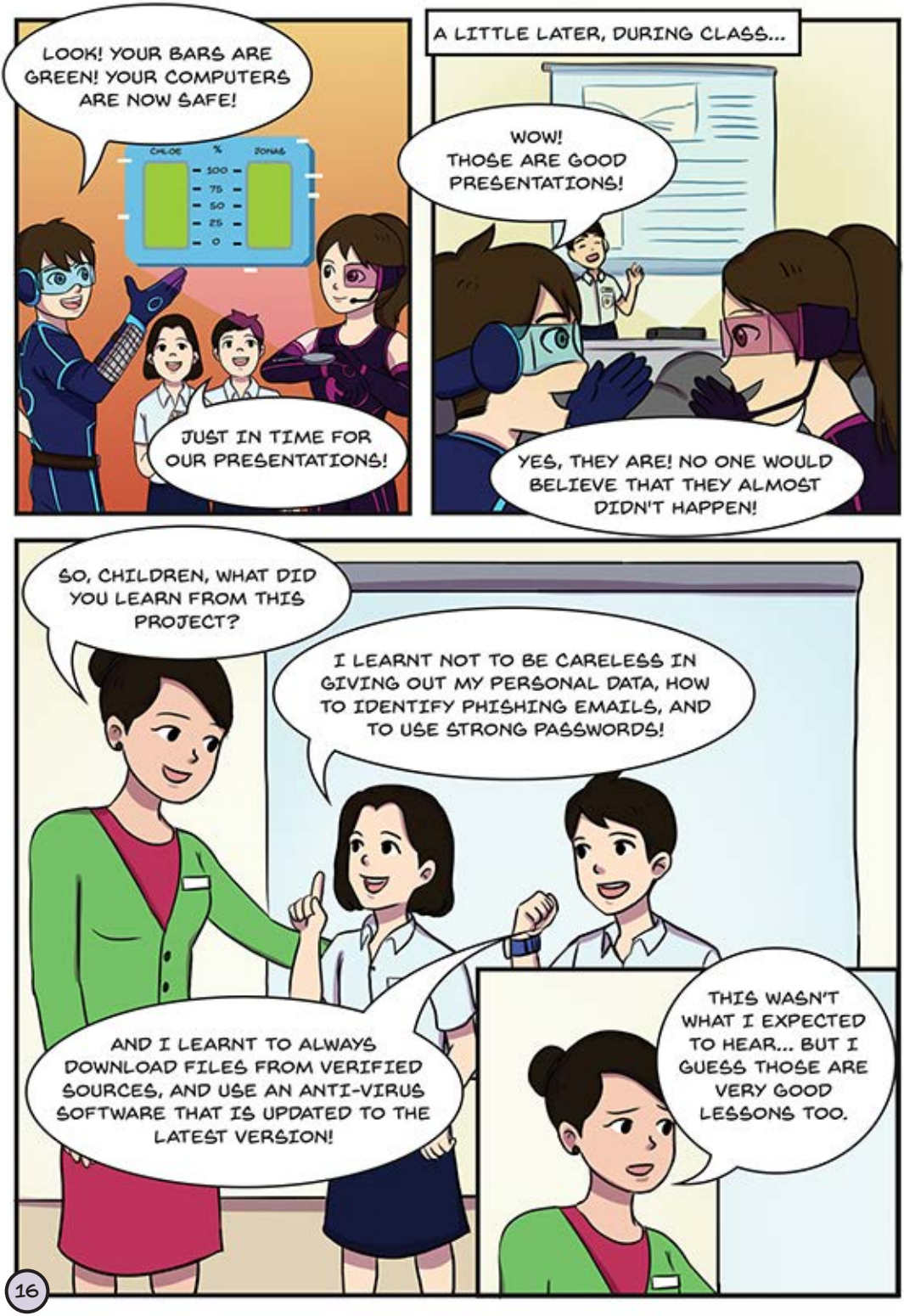
3 7 3 5 1 6 8 2 9 7 3 3 4 6 1


OH NO! WE ONLY HAVE 20 MINUTES BEFORE OUR PRESENTATIONS ARE DUE. WHAT SHOULD WE DO? I STILL CAN'T OPEN MY PRESENTATION.
AND I FEEL REALLY BAD THAT MY EMAIL ACCOUNT WAS USED TO SEND OUT PHISHING EMAILS AND VIRUSES.
LET'S GET THAT ANTI-VIRUS SOFTWARE INSTALLED. AND THEN, I'LL HELP YOU REMOVE THE VIRUSES AND RESTORE YOUR COMPUTER AND PRESENTATION.
I'LL TEACH YOU HOW TO CREATE A STRONG PASSWORD. WITH A STRONG PASSWORD, IT'LL BE MORE DIFFICULT FOR HACKERS TO HACK INTO YOUR EMAIL ACCOUNT.


THESE BARS SHOW YOUR LEVEL OF CYBER SAFETY. ONCE YOUR BARS ARE FULL AND GREEN, JONAS, YOUR PRESENTATION WILL BE RESTORED AND CHLOE, THE SPAM EMAILS WILL STOP. SO, LET'S FIX THIS!
CHLOE
%
JONAS
100
75
50
25
0


LET'S CHANGE YOUR EMAIL PASSWORD. THINK OF A MEMORY THAT ONLY YOU KNOW.
"LEARNTTOCYCLEATFIVE"
WELL, I LEARNT TO RIDE A BICYCLE WHEN I WAS FIVE ...
THEN, USE UPPERCASE AND LOWERCASE LETTERS, NUMBERS OR SYMBOLS TO MAKE IT HARDER TO CRACK.
MY PASSWORD WILL BE QUITE LONG!
YES! A PASSWORD SHOULD BE LONG!
I KNOW! MY PASSWORD IS ...
"learnttoCYCLEat5"
STOP! DON'T TELL ME YOUR PASSWORD! NEVER TELL ANYONE YOUR PASSWORD!
AND YOU SHOULD NOT USE THE SAME PASSWORD FOR DIFFERENT ACCOUNTS.
LET ME WRITE DOWN MY PASSWORD BEFORE I FORGET IT...
NO! YOU SHOULD NOT WRITE IT DOWN. SOMEONE MAY FIND IT AND USE IT. MAKE SURE YOUR PASSWORD IS SOMETHING YOU CAN REMEMBER.
GREAT JOB! WE'VE RESET YOUR PASSWORD. NOW LET'S WARN YOUR FRIENDS ABOUT THE PHISHING EMAILS AND MAKE SURE THEY DO NOT CLICK ON LINKS OR OPEN ANY ATTACHMENTS.
LET'S DO THIS!


LET'S SOLVE YOUR ISSUE NOW. WHEN YOU INSTALL ANTI-VIRUS SOFTWARE, MAKE SURE IT'S FROM A LEGITIMATE SOURCE.
WHAT CAN AN ANTI-VIRUS SOFTWARE DO?
ANTI-VIRUS SOFTWARE CAN SCAN YOUR COMPUTER FOR VIRUSES AND REMOVE THEM.
Antivirus
Install
YOU CAN GET THEM ONLINE FROM OFFICIAL WEBSITES. BE SURE TO VERIFY THAT THE WEBSITES ARE AUTHENTIC AND TRUSTED!
Install
click
Cleaning...
20%
WITH ANTI-VIRUS SOFTWARE, WE CAN EFFECTIVELY REMOVE THE VIRUS!


LOOK! YOUR BARS ARE GREEN! YOUR COMPUTERS ARE NOW SAFE!
CHLOE
%
JONAS
100
75
50
25
0
JUST IN TIME FOR OUR PRESENTATIONS!
A LITTLE LATER, DURING CLASS...
WOW! THOSE ARE GOOD PRESENTATIONS!
YES, THEY ARE! NO ONE WOULD BELIEVE THAT THEY ALMOST DIDN'T HAPPEN!
SO, CHILDREN, WHAT DID YOU LEARN FROM THIS PROJECT?
I LEARNT NOT TO BE CARELESS IN GIVING OUT MY PERSONAL DATA, HOW TO IDENTIFY PHISHING EMAILS, AND TO USE STRONG PASSWORDS!
AND I LEARNT TO ALWAYS DOWNLOAD FILES FROM VERIFIED SOURCES, AND USE AN ANTI-VIRUS SOFTWARE THAT IS UPDATED TO THE LATEST VERSION!
THIS WASN'T WHAT I EXPECTED TO HEAR... BUT I GUESS THOSE ARE VERY GOOD LESSONS TOO.

AFTER CLASS...
THANK YOU SO MUCH FOR YOUR HELP, CRYPTO AND SYNTHIA!
YES, THANK YOU! WITHOUT YOUR HELP, WE WOULD NEVER HAVE BEEN ABLE TO PULL OFF THE PRESENTATIONS!
NO PROBLEM AT ALL! REMEMBER TO ALWAYS PRACTISE GOOD CYBER HYGIENE!
BE CYBER SAFE!
OH YES... CHLOE, SORRY I WAS UPSET WITH YOU EARLIER. I SHOULD HAVE KNOWN YOU WOULDN'T TRY TO RUIN MY PRESENTATION.
IT'S OKAY, JONAS. NEXT TIME, WE CAN HELP OUR FRIENDS TO IMPROVE THEIR CYBER HABITS AS WELL! WE'LL ALL BE CYBER CHAMPIONS!
SOUNDS LIKE A PLAN!
WELL, LOOKS LIKE OUR WORK HERE IS DONE!
ON TO OUR NEXT MISSION!

TIME TO DECODE

What are some of the lessons we have learnt from Chloe and Jonas' story? Decode the following message to find out.

●●– ●●● ● ●– –● – ●● ●●●– ●● ●–● ●●– ●●●

●●● ––– ●●–● – ●–– ●– ●–● ●

&

●–●● ––– ––– –●– ––– ●●– –

●●–● ––– ●–● ●●● ●● ––● –● ●●●

––– ●●–● ●––● ●●●● ●● ●●● ●●●● ●● –● ––●

___ ____ – _____

_____

&

____ ___

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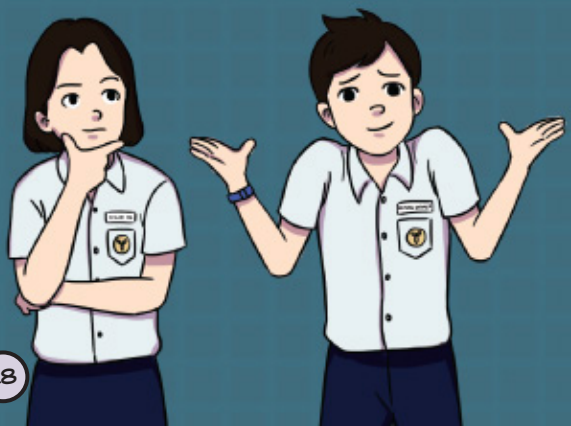

A ●–	J ●–––	S ●●●
B –●●●	K –●–	T –
C –●–●	L ●–●●	U ●●–
D –●●	M ––	V ●●●–
E ●	N –●	W ●––
F ●●–●	O –––	X –●●–
G ––●	P ●––●	Y –●––
H ●●●●	Q ––●–	Z ––●●
I ●●	R ●–●	

TO SHARE OR NOT TO SHARE?

Discuss with your parents if it is necessary to provide the information in each of the following scenarios.

When a contest form at a mall or supermarket requests for your credit card information

At a clinic, the nurse asks for your mobile number

While doing a survey, you are requested to provide your residential address

Answers to "Fishy Phishing"

1) Actual URL does not match the link in the email (for info: this is referring to the hover box)

2) Urgent words and phrases used: "URGENT", "Click on the link immediately"

3) Promises of attractive prizes: "stand to win attractive prizes!"

4) free-photos-for-you.exe

Answers to "Say No to Hackers!"

5	3	4	6	7	8	9	1	2
6	7	2	1	9	5	3	4	8
1	9	8	3	4	2	5	6	7
8	5	9	7	6	1	4	2	3
4	2	6	8	5	3	7	9	1
7	1	3	9	2	4	8	5	6
9	6	1	5	3	7	2	8	4
2	8	7	4	1	9	6	3	5
3	4	5	2	8	6	1	7	9

USE A STRONG PASSWORD

Answers to "Time to Decode"

Use Anti-virus Software

&

Look Out for Signs of Phishing

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