MS-ISAC®
Multi-State Information
Sharing & Analysis Center®

2021
Kids Safe Online
Activity Book —
Cybersecurity
Champions

Every year, the MS-ISAC conducts a National Cybersecurity Awareness Poster Contest to encourage young people to use the internet safely. The contest is open to all K-12 students in all 50 states, the District of Columbia, U.S. territories, U.S. tribes and U.S. military installations worldwide.

This year, as the COVID-19 pandemic moved us all towards the digital environment, the MS-ISAC embraced that shift. Rather than the traditional calendar that features the 13 poster contest winners, we found a new way to distribute educational and interactive resources and showcase the winning artwork.

The result is this cyber safety activity book that includes cybersecurity-related crossword puzzles, word searches, word scrambles, coloring pages, and the poster contest artwork. This activity book's artwork was developed by grade K-12 students who participated in the 2020/2021 MS-ISAC National Cybersecurity Awareness Poster Contest. The 13 winning submissions illustrate the safe use of the internet and mobile devices through password protection, keeping devices and software up-to-date, protecting personal information, and other important topics.

The 2021 Kids Safe Online poster contest winners* are:

- **Alyssa** 5th Grade, New York – National Winner
- **Aniya** 6th Grade, New Jersey
- **Avni** 6th Grade, Arizona
- **Bryce** 9th Grade, Texas
- **Haley** 2nd Grade, New York
- **Jessalyn** 11th Grade, New Jersey
- **Luana** 11th Grade, Texas
- **Melia** 12th Grade, Virginia
- **Nicole** 12th Grade, New York
- **Sahaj** 1st Grade, New York
- **Sanjay** 8th Grade, New Jersey
- **Theodora** 7th Grade, New York
- **Whitney** 5th Grade, Iowa

With kids spending more waking hours online than ever before, cybersecurity is of the utmost importance. The contest is a fun, yet very impactful way that our kids can educate not only their peers, but everyone, on the importance of online safety. Thanks to all the students who contributed submissions, and congratulations to our winners!

Carlos Kizzee
MS-ISAC Vice President
Stakeholder Engagement

The next Poster Contest will be open September 24, 2021 - January 21, 2022. Winners will be featured in the 2022 MS-ISAC Kids Safe Online Activity Book — Cybersecurity Champions! Please visit https://www.cisecurity.org/ms-isac/ms-isac-toolkit/ for more information on the 2021-2022 MS-ISAC National Cybersecurity Awareness Poster Contest guidelines. For questions, please email us at contest@cisecurity.org.

We appreciate the continued support from our integral partners.

* Out of respect for the contestants' safety, only a limited amount of information about the winners is released

Cybersecurity Awareness Month

Kids Safe Online
MS-ISAC® Poster Contest

Entry Form

It is requested that a Teacher or School Contact Person verifies that this form is completely and accurately filled out.

Please attach this form to the corresponding poster in the email. Both the scanned entries and forms must be electronically submitted to:

@ **contest@cisecurity.org**

All Fields Are Required

Student's FIRST Name:
(Please **DO NOT** include student's last name)

Grade:

Title of Poster:

School Contact Name:

Email:

Phone Number:

School Name:

School Address:

School City:

State:

Zip:

Total Number of Poster Entries Judged at School:

MS-ISAC®

Helping Keep Kids Safe Online

Know Your Cybersecurity Terms!

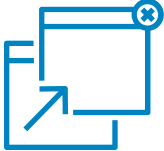|	
Adware	Programs that display an advertisement on the screen, and are often installed without the user realizing.
Cat-fishing	Luring someone into a relationship, either through a chatroom or social media website using a fake identity.
Clickbait	A link that entices you to click on it. Clickbait will usually use images or phrases to draw the user's attention.
Cookie	You can't eat these BUT they keep track of your user preferences.
Cyberbully	Person who hurts someone else online on purpose.
Cybersecurity	A technique or software used to protect computers and prevent online crime.
Data	Information that is stored on a device or computer.
Download	Save a file from the internet to your computer.
Firewall	A program that is installed to block viruses.
Hacker	Someone who accesses unauthorized computer data.
Hardware	The physical components of a computer system, like the wiring, monitor, laptop, or disc drive.
Identity Theft	A crime that involves someone obtaining personal information such as a credit card, social security number, or bank account number from someone else in order to steal money.
Internet	A giant collection of computer networks that connects people and information all over the world.
Malware	Short for "malicious software". Programs that damage computers, steal personal information or expose a computer to further damage by hackers.
Netiquette	The best way to behave online.
Network	Multiple computers that are connected to one another.

Know Your Cybersecurity Terms!

continued

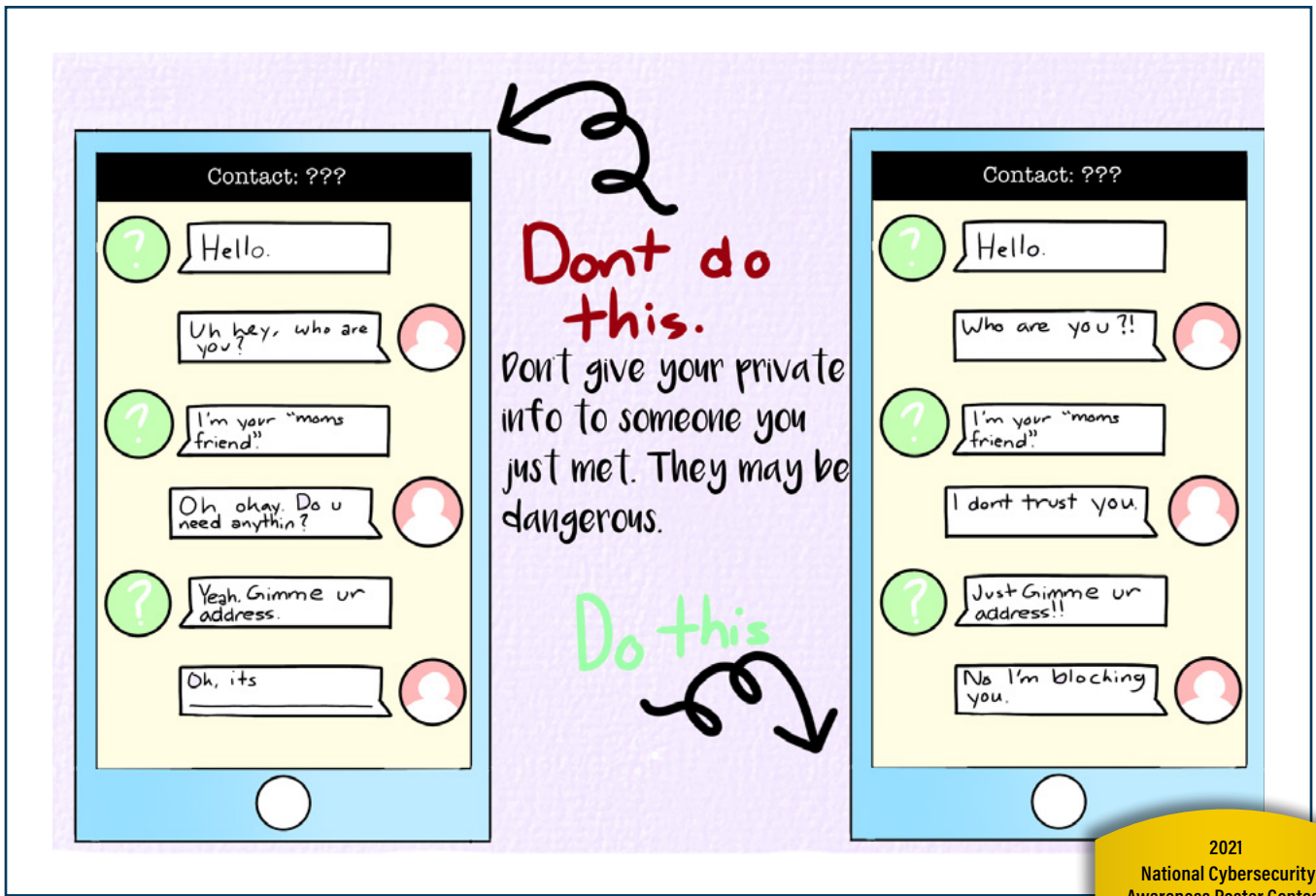| Term	Definition
Phishing	An attempt to trick people into visiting malicious websites and share their personal information.
Piracy	The illegal duplication or use of copyrighted material.
Pop-up	An unsolicited advertisement.
Privacy settings	The part of a social networking site that allows you to control who sees information about you.
SMS	Short message service. The true term for a text message.
Search Engine	A web tool that enables users to locate info on the world wide web, such as Google Chrome.
Server	Programs that manage a website and send web pages to the user's browser when it is asked to do so.
Social Media	A social network that is used to share personal images and information.
Software	Programs that run on your computer.
Spam	Another term for "junk email", usually an email message sent to a large number of people without their consent and promotes a product or service.
Streaming	Using media without downloading it. Example is listening to music on YouTube.
Surfing	Browsing multiple websites on the internet.
Troll	Someone who posts upsetting messages or images on social media for the sole purpose of gaining an emotional reaction from the viewers.
Upload	Sending information from one computer to another.
Virus	Software that can delete files, steal data, or take over someone else's computer remotely.
World Wide Web (www or web)	A system on the internet that allows you to browse through a variety of linked resources using typed commands or clicking on links.

Don't do this.
Don't give your private info to someone you just met. They may be dangerous.

Do this

Cyber Tip: Stop That Chat!

If you receive a text from someone you don't know, don't respond – ignore it! It could be from someone with bad intentions. Never send anyone information they don't need to know, such as where you live. And never take or send photos that you wouldn't want the world to see! Once you send it, you can never get it back.

Word Scramble

Instructions:
Can you unscramble these cybersecurity terms?

Hints: | **Answer:**

L Y L B B U C E Y R

Person who hurts someone else online on purpose.

D N W A O L O D

Save a file from the internet to your computer.

S V I R U

You don't want your computer or phone to catch this cold! It can delete files and steal your data.

S H P G I N H I

Much like a worm on a hook to trick a fish – these mean email types are created to trick people into visiting malicious websites.

A H R R E W D A

All the techy stuff in your home and in your hand. They are the physical components of a computer system, like the wiring, monitor, laptop, or disc drive.

Answer key on page 26

IF YOU AREN'T CAREFUL WITH YOUR BROWSER COOKIES, IT'S EASY FOR THEM TO FALL INTO THE HANDS OF HUNGRY HACKERS.

ARE YOU CYBER-SECURE?

PROTECT YOURSELF BY:
- CLEARING YOUR COOKIES REGULARLY
- NOT CLICKING ON UNUSUALLY LARGE OR COMPLEX LINKS
- NOT CONNECTING TO UNSAFE PUBLIC NETWORKS
- ENSURE THAT THE SITE YOU ARE ON IS SECURE AND USES HTTPS.

2021
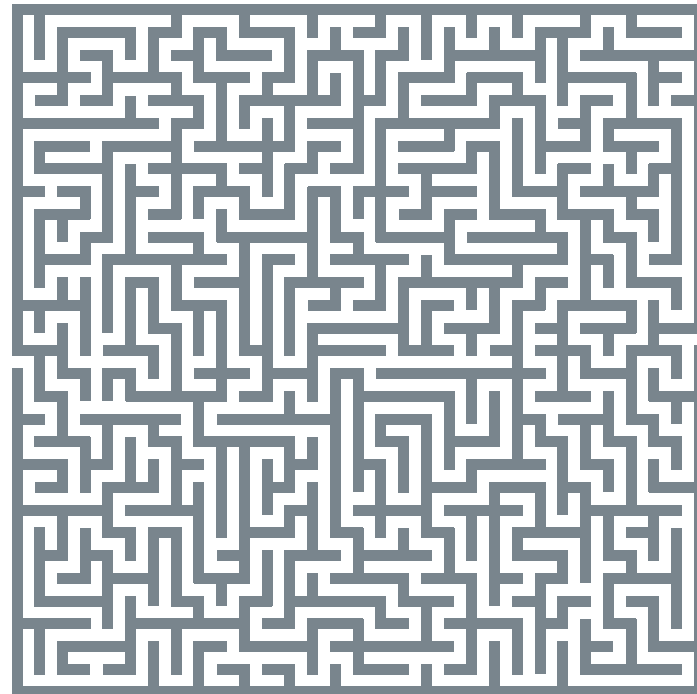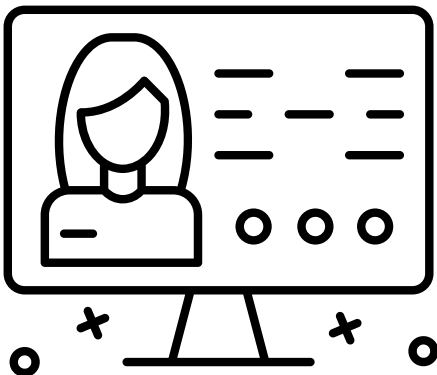National Cybersecurity Awareness Poster Contest
Sanjay
8th Grade
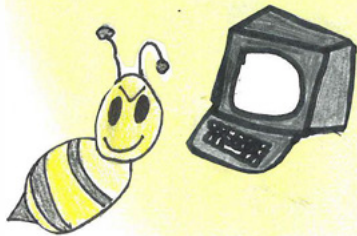New Jersey
W I N N E R

Maze

Find your way to the cookie...

Answer key shown on page 26

Don't Get Stung by Your Mistakes!

Bee Careful!

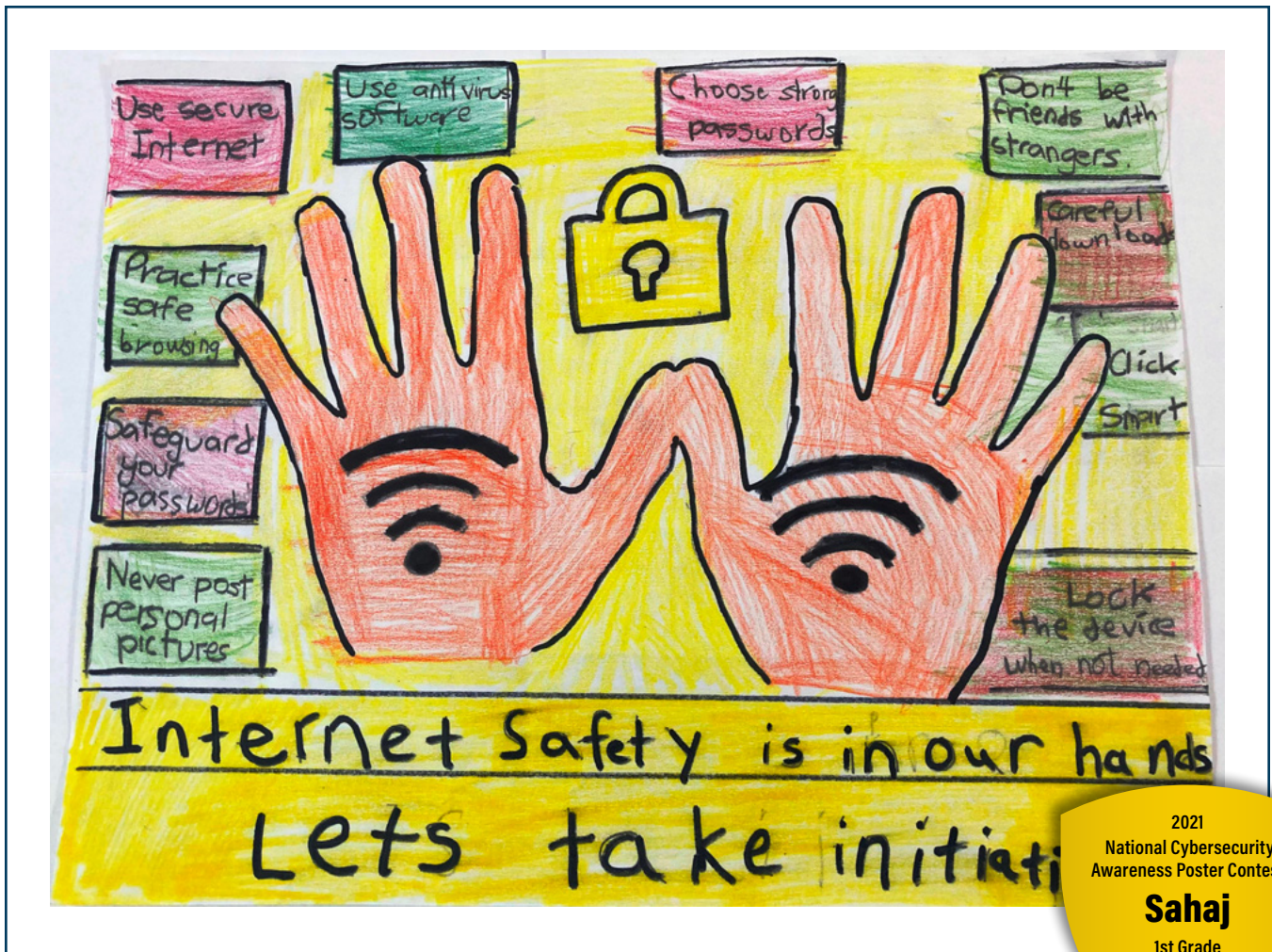## Cyber Tip: Passwords

Keep your passwords private!

Your password is your secret weapon to keep your information safe. Use passwords that are hard to guess. Even better, use a "passphrase" instead! It will be longer, so more secure, and easier to remember too. Mix numbers with letters, and use unique (wrong) spellings, like this: Myd0g1zbrown&wite!

Cybersecurity Sleuth

Instructions:
Circle or highlight the terms

HONEYPOT

SPAM

ENCRYPTION KEY

DATA-MINING

SPOOFING

CYBERATTACK

DDOS

CLICKJACKING

BUG

VULNERABILITY

I	F	O	U	Y	C	C	V	A	D	D	O	S	I
U	E	O	C	F	L	B	U	K	T	G	K	S	G
D	N	C	Y	A	I	A	L	B	U	G	D	O	O
A	C	V	B	L	C	H	N	D	K	B	K	D	N
T	R	S	E	M	K	O	E	D	E	S	I	A	O
A	Y	P	R	E	J	N	R	K	N	C	P	A	N
M	P	O	A	I	A	E	A	N	N	C	N	A	C
I	T	O	T	I	C	Y	B	G	N	G	Y	D	M
N	I	F	T	C	K	P	I	F	D	Y	D	Y	O
I	O	I	A	S	I	O	L	B	I	A	A	U	C
N	N	N	C	Y	N	T	I	Y	N	E	T	N	D
G	K	G	K	N	G	I	T	G	P	A	Y	E	N
N	E	V	B	A	D	C	Y	S	F	E	D	Y	O
T	Y	N	A	C	G	L	A	B	R	N	G	R	N

Answer key on page 26

Internet Safety is in our hands
Lets take initiati[ve]

Match the Cybersecurity Vocabulary to its Definition!

Instructions:
Draw a line from the cybersecurity term to its definition

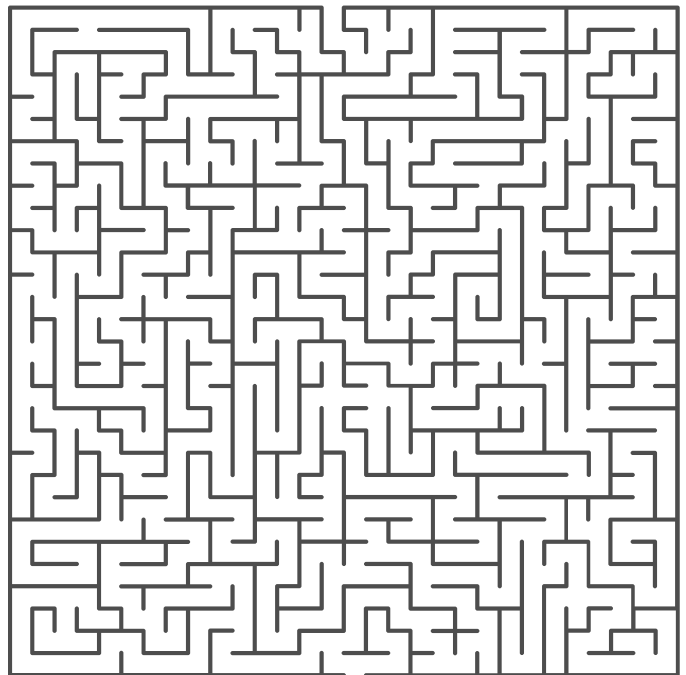|	
Software	An attempt to trick you into clicking on a link that will take you to a harmful website, by pretending to be something it's not
Digital Footprint	Programs that run on your computer
Cookie	A small text file that gets placed on your device every time you visit a web page
Phishing	The trail of information you leave behind every time you use the internet
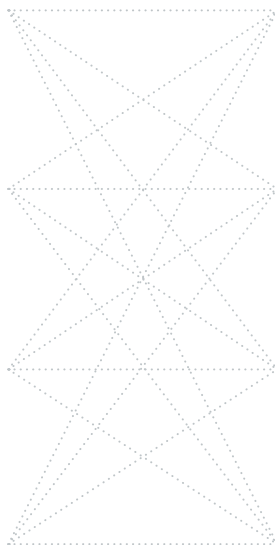
THE INTERNET IS FULL OF STRANGERS

Messages
UNKNOWN
UNKNOWN
FRIEND
UNKNOWN
UNKNOWN
UNKNOWN
UNKNOWN
FRIEND

BE CAREFUL WITH WHO YOU TALK TO

2021
National Cybersecurity
Awareness Poster Contest
Jessalyn
11th Grade
New Jersey
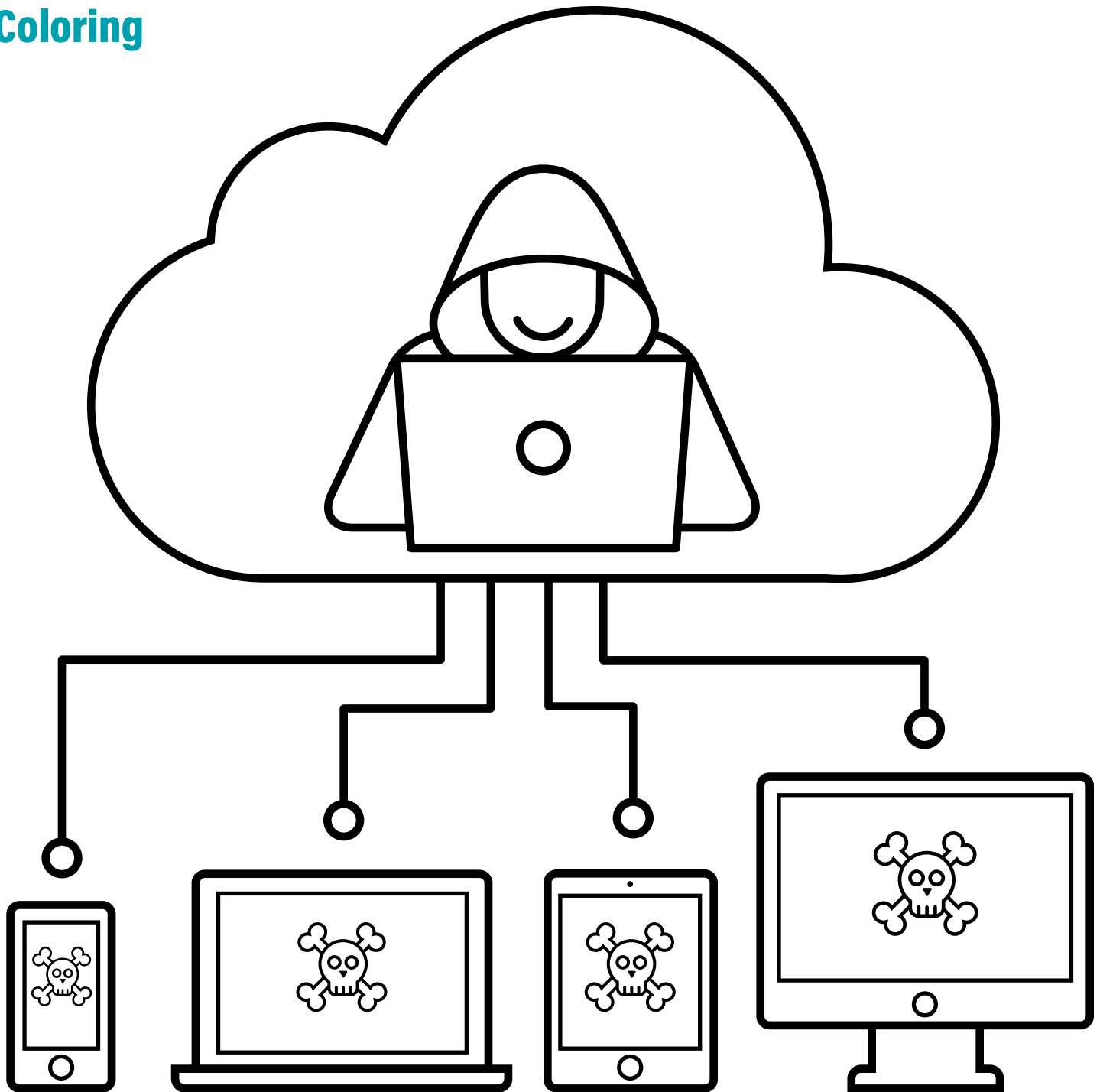**W I N N E R**

Cyber Tip: Online Safety

Stranger Danger!

Sometimes, bad people can pretend to be someone else to get you to chat with them. A grown-up may pretend to be a teenager, for example. So, if you don't know them, don't chat with them! And never send them information about you or your family.

Maze

Can you make it to the other side?

Answer key shown on page 26

Coloring

Cyber Tip: Whack That Hack!

Hackers use computers to steal information from other people, to get money, or to damage computers that belong to people, businesses, or governments. Hacking is not only wrong, it's against the law. Ask your parents to use anti-virus software to protect your home network, and never download files from suspicious sites. Those files could contain "malware" (bad software) that could cause you all kinds of trouble!

STRONG PASSWORDS KEEP US SAFE

2021
National Cybersecurity
Awareness Poster Contest
Theodora
7th Grade
New York
W I N N E R

Passwords

Create Your Own Passwords

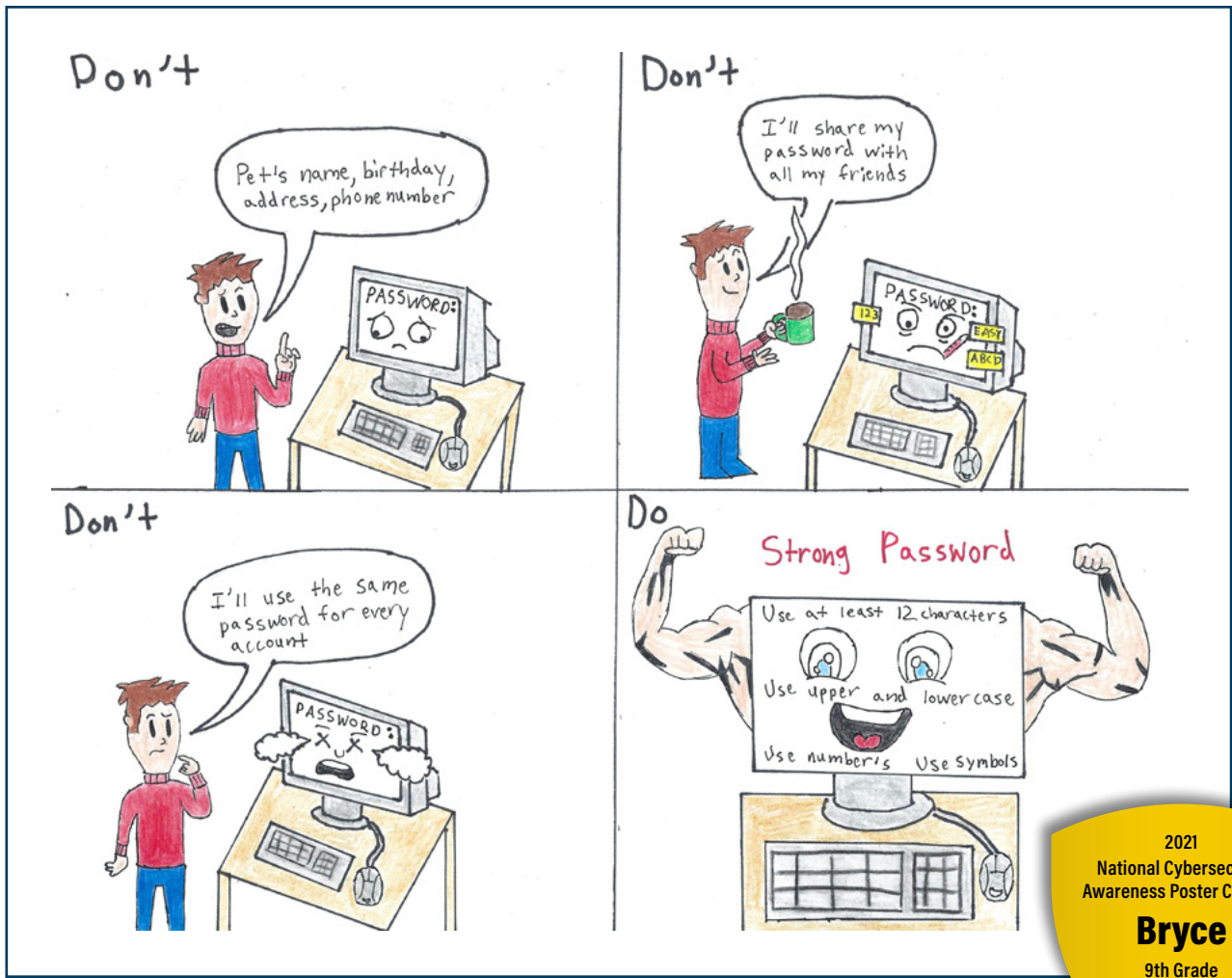Using the tips on Page 8, create some unique passwords (or passphrases) of your own! They should be at least 10 characters long (longer is even better). The first one is an example.

ImasooperDOOPERpasswerdm8ker!

_____

_____

_____

Note: If you end up using any of these passwords for real, memorize them and destroy this page! Never write down your passwords where other people can find them.
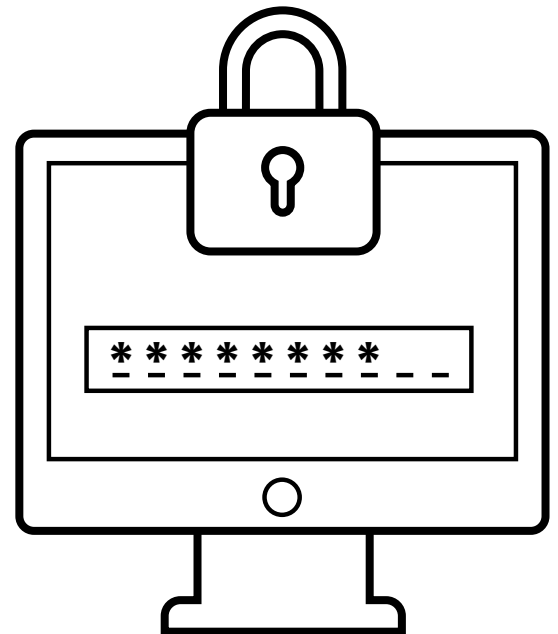
Word Scramble

Instructions:
Can you unscramble these cybersecurity terms?

Hints:	Answer:
A O S W S R D P	Something you create for access to personal accounts online. Don't share this with anyone!
O O I K C E	You can't eat these BUT they keep track of your user preferences, like shopping choices – which is pretty sweet!
P S M A	It comes in a can and ALSO is considered "junk email", sent to a large number of people to sell a product or service.
R R S V E E	Programs that manage a website and send web pages to the user's browser when prompted– also another name for a waiter or waitress.
I E I D T T N Y	Parts of this include personal information such as a credit card, social security number or bank account number that people want to steal and claim they are you.

INTERNET SECURITY

ABCDEFGHIJKLMNOPQRSTUVWXYZ 12345678910

Wear A MASK
Social Distance 6 FEET

MATH
1x1= 1
2x2= 4
3x3= 9
4x4= 16
    25

UPCOMING Tests:
Mon- English
Tues- Math
Wed- none
Thurs- Science
Fri- none

Lessons by a reformed HACKER

1. Don't give away personal info.
2. Make a STRONG Password.
3. Don't click suspicious links.
4. connect only to secure networks.
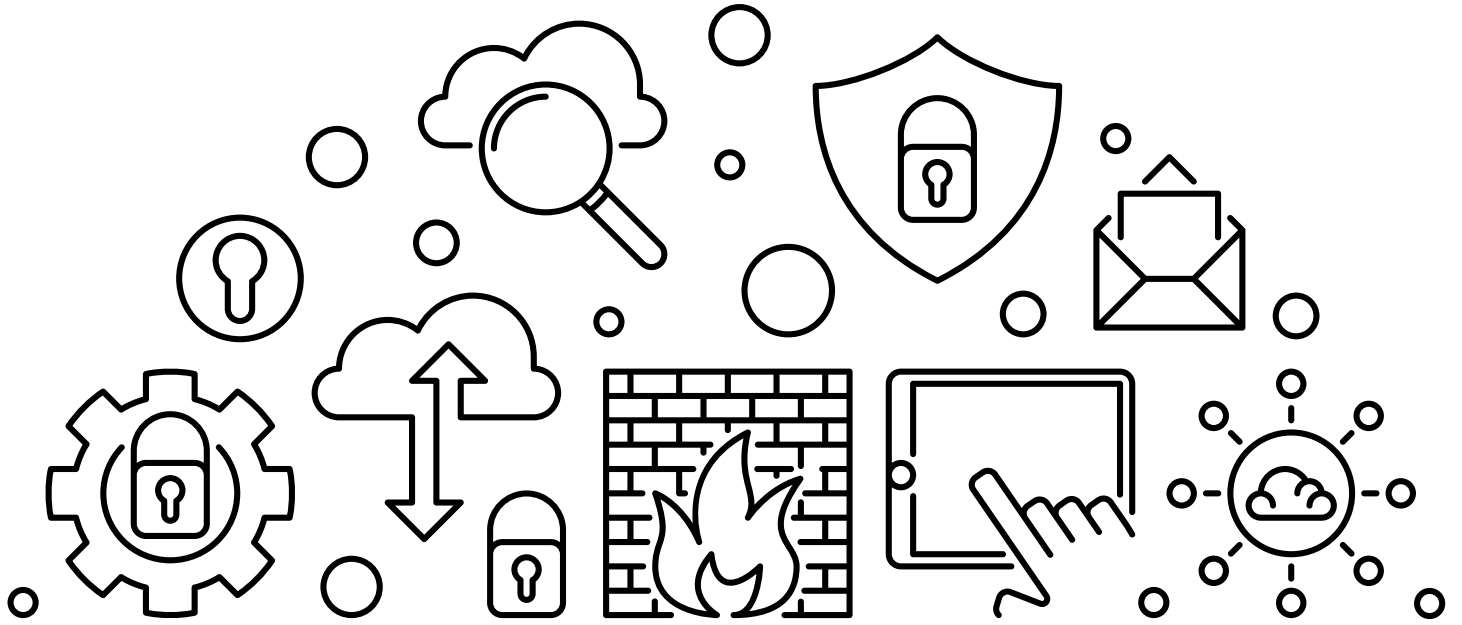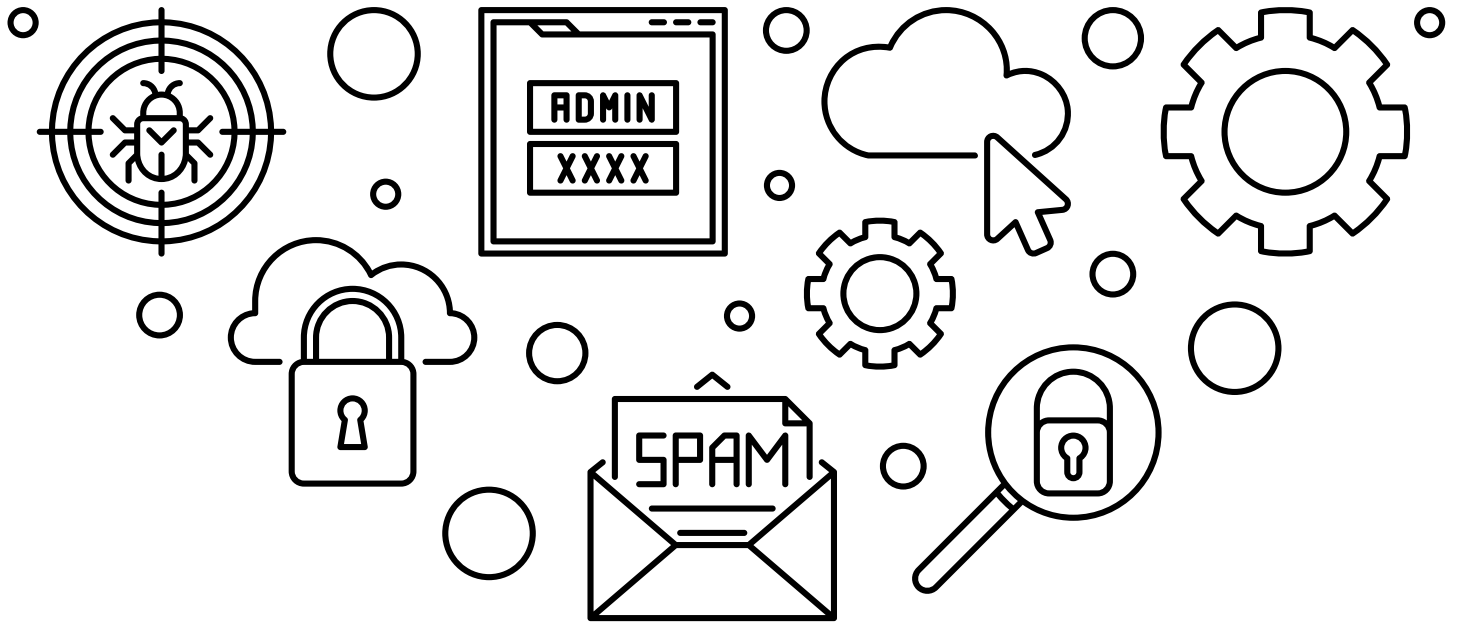
2021
National Cybersecurity
Awareness Poster Contest
Avni
6th Grade
Arizona
W I N N E R

Coloring
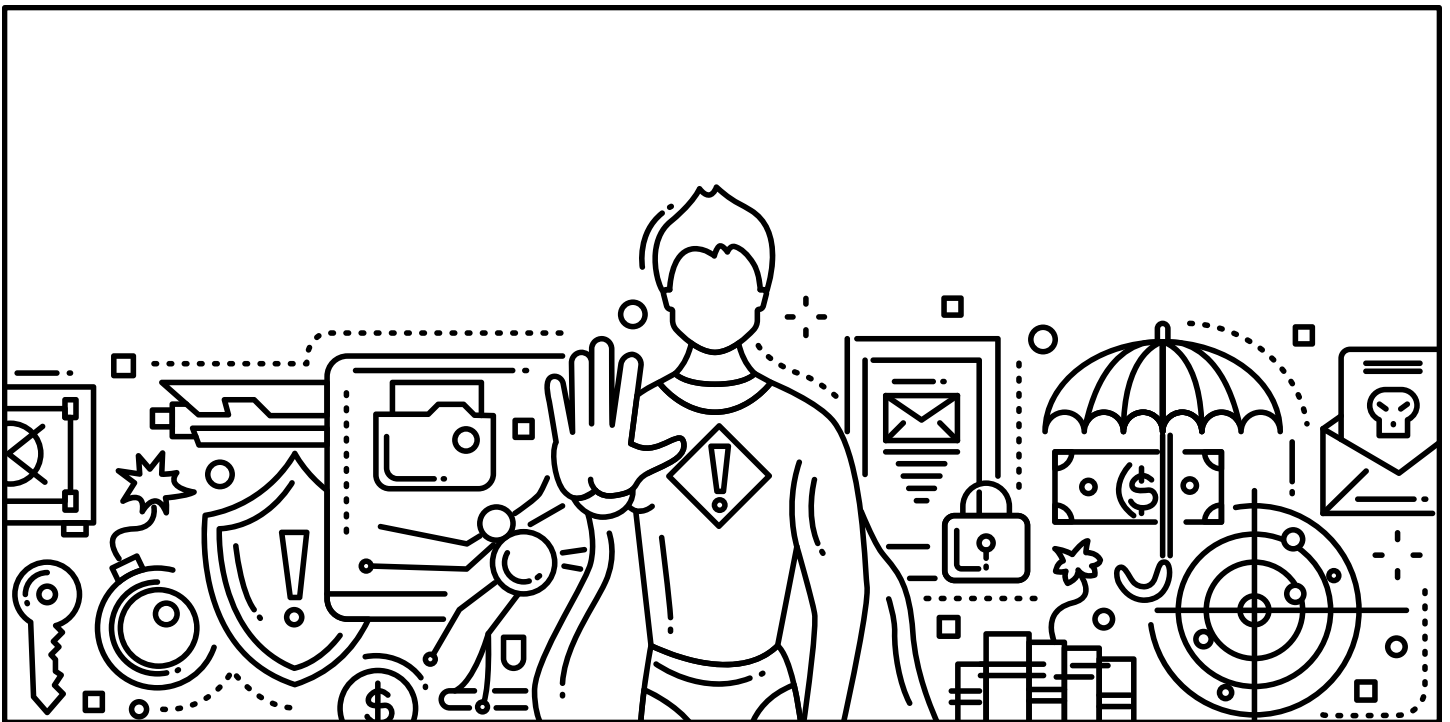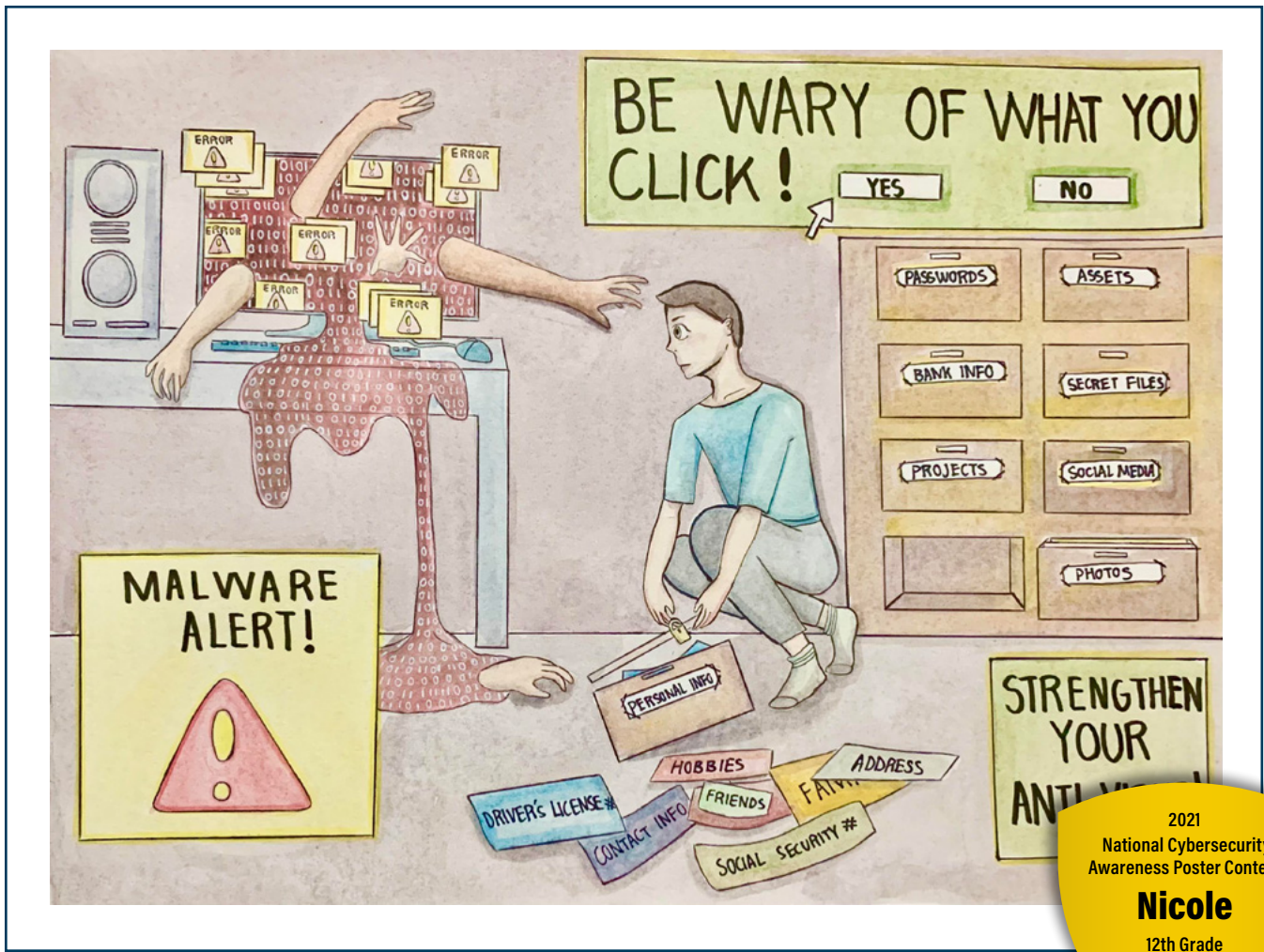
Word Scramble

Instructions:
Can you unscramble these cybersecurity terms?

	Hints:	**Answer:**
L A F W L R I E	A really hot item for security – this is a program that is installed to block viruses.	
R L O L T	Someone who posts upsetting messages or images on a social media website, comments section, or chat for the sole purpose of hurting someone's feelings.	
R K C A H E	Someone who accesses unauthorized computer data.	
D U O P L A	Sending information from one computer to another ie. a video you filmed on your phone and then posted to TikTok	
E A W A D R	Beware of those pop-ups! These are programs that display an advertisement on the screen, and are often installed without the user realizing.	

Answer key on page 26

Be Careful When Sharing
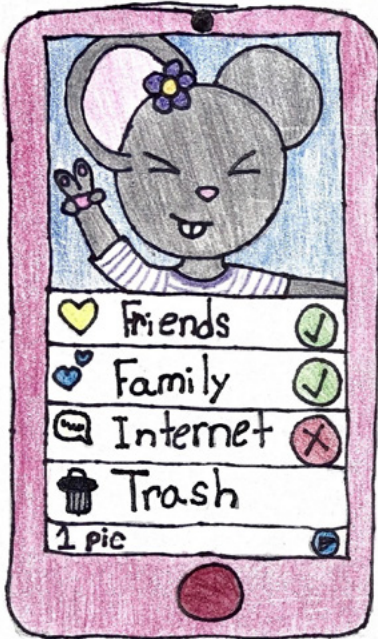
★ Be mindful about what you share and who you share it with.

★ Avoid people who overshare and don't become an oversharer.

♥ Friends ✓
♥ Family ✓
💬 Internet ✗
🗑 Trash
1 pic

Maze

Can you make it to the center?

Don't Let Hackers In!

Not updating your devices regularly creates a hole for hackers.

Updates Patch the hole to Prevent worms and viruses from getting in.
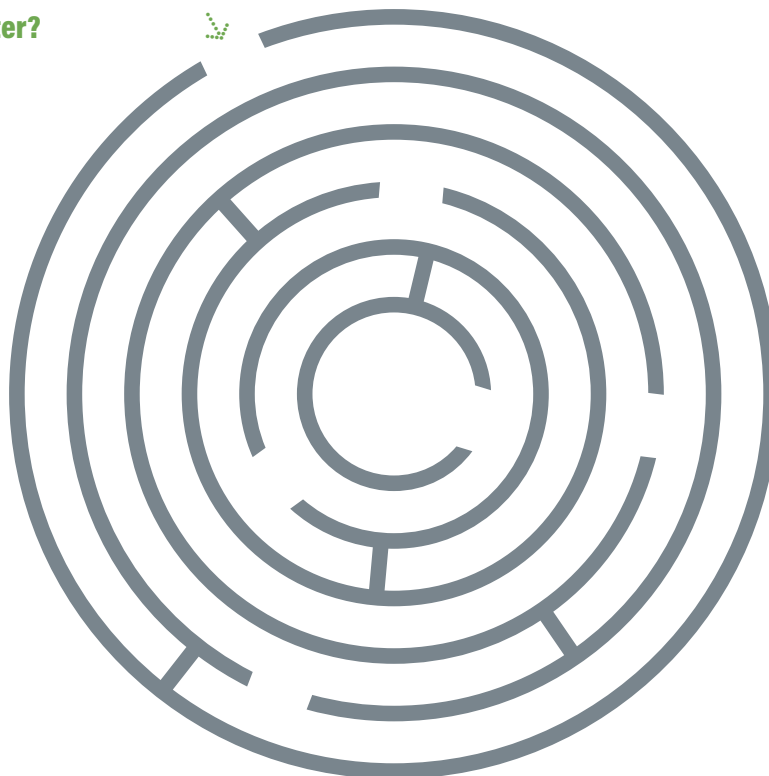
Send Secret Messages Like a Spy!

Encryption is a way to disguise text in order to send secret messages.
A very simple technique is to replace the alphabet with the letters in reverse order:

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
z	y	x	w	v	u	t	s	r	q	p	o	n	m	l	k	j	i	h	g	f	e	d	c	b	a

For example, if you spell the word "CAT" with this code (also called a cipher), it would be "XZG".
C = X
A = Z
T = G

Can you decode messages like a spy? What are these words?

WLT = ☐ ☐ ☐

HZUV = ☐ ☐ ☐ ☐

HVXIVG = ☐ ☐ ☐ ☐ ☐ ☐

POSTER: PASSWORD SAFETY

DO CREATE LONGER PASSWORDS
Try for around 16 characters. However, make sure it's not so long that you forget it.

DO CHANGE PASSWORDS ON A REGULAR BASIS
You should change your password frequently. Especially for things like banking info, this may mean every two months.

DO USE TWO-FACTOR AUTHENTICATION
If a hacker did steal your password, it's an extra layer of protection preventing unwanted access to your accounts.

DON'T USE PERSONAL INFORMATION
i.e. your name, a family member's name, pet, address, phone number, birthday. They're often publicly available and easily accessible.

DON'T REUSE PASSWORDS
If the hacker cracks just one password, they'll gain access to all your other accounts, and we don't want that.

DON'T USE REAL WORDS
Instead, try special characters like &, $, @, or ! to increase password complexity.

SECURITY BREACH

2021 National Cybersecurity Awareness Poster Contest
Luana
11th Grade
Texas
WINNER

What makes a strong password?

Name five things you've learned so far that help create strong passwords.

1 _____

2 _____

3 _____

4 _____

5 _____

Coloring
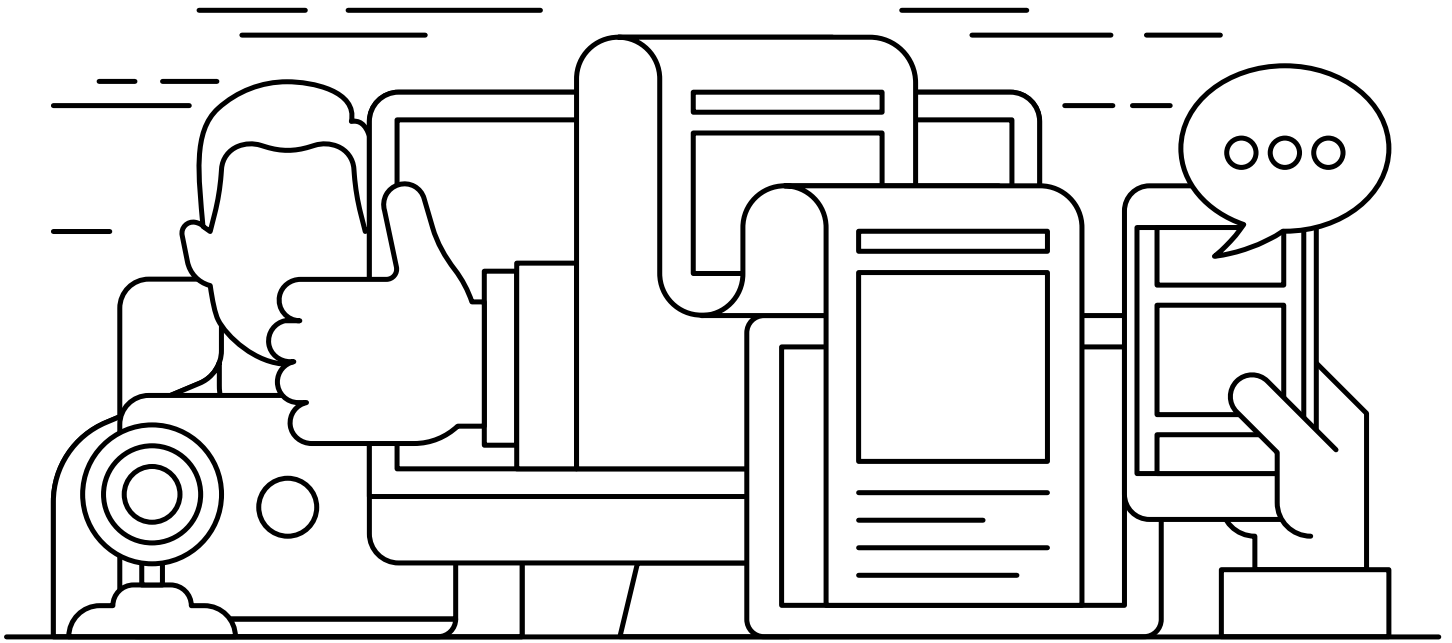
SOCIAL MEDIA

✓ **Cyber Tip:**

Don't Let Social Media Be Anti-Social!

Just because you can post anything about yourself on a social media site doesn't mean you should. Keep your networks private and don't accept invitations from strangers. Don't post information about yourself that could put your or your family at risk. For example, don't post pictures of where you live, or tell people that you're home alone or away on vacation. Bad people may get access to this information.

Leave social media altogether if it makes you unhappy. Remember, social media can be fun, but getting together with real friends in person is even better!

Coloring

Match the Cybersecurity Vocabulary to its Definition!

Instructions:
Draw a line from the cybersecurity term to its definition

Netiquette	Viewing or listening to media without downloading it
Social Media	Browsing multiple websites on the internet
Streaming	The best way to behave online
Surfing	An online service you can use to share personal images and information

Coloring
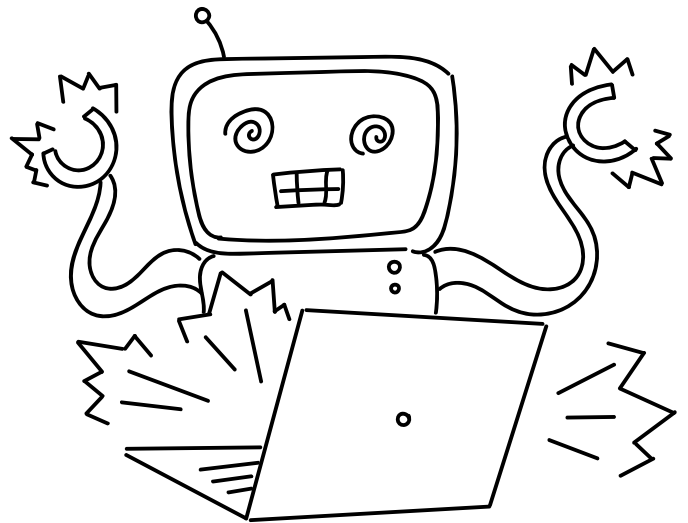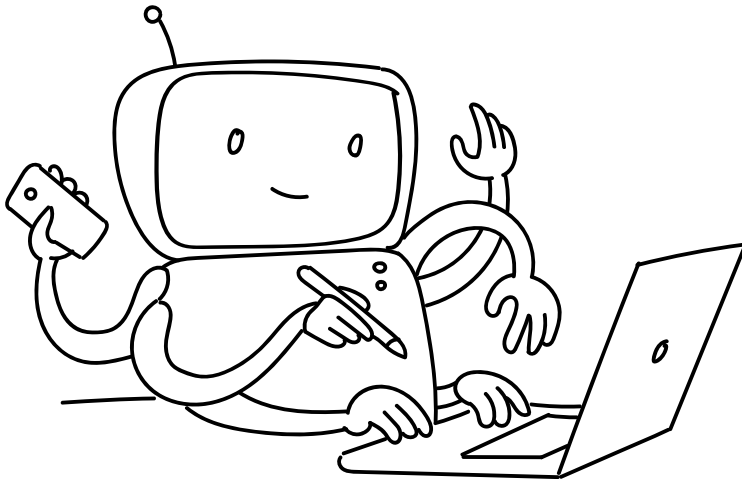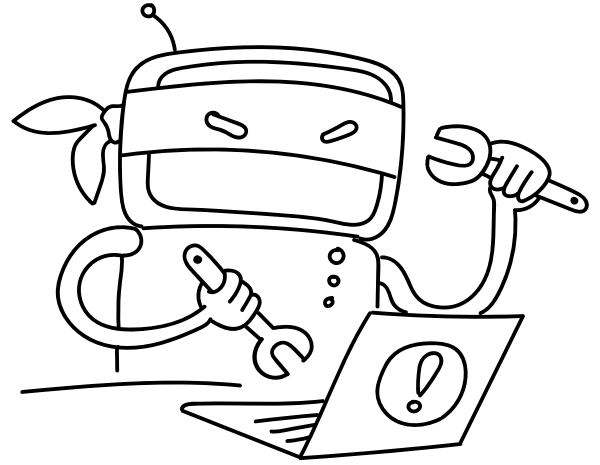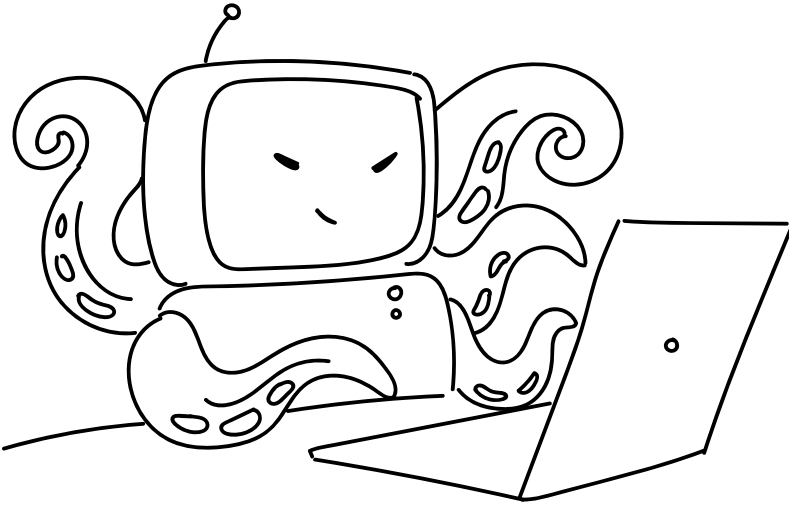
Word Scramble

Instructions:
Can you unscramble these cybersecurity terms?

	Hints:	**Answer:**
I E T E N R N T	A giant collection of computer networks that connects people and information all over the world.	
C R P A Y V I	Make sure to update these settings on all your accounts to only share with whom you want.	
R W A A E M L	A type of software that can damage your computer, steal your personal information or expose your computer to further damage by hackers.	
A D T A	Selfies and videos and credit cards – it's all the things! This is the information that is stored on a device or computer.	
G U F I R S N	Browsing multiple websites on the internet.	

PASSWORD SAFETY

HACKER

Cybersecurity Sleuth

Instructions:
Circle or highlight the terms

TROJAN HORSE

CLOUD

IP ADDRESS

SOFTWARE

EXPLOIT

FIREWALL

VIRUS

DOMAIN

BREACH

MALWARE

E	A	X	T	A	D	U	O	L	C	E	I	O	E
D	F	E	L	A	R	L	E	R	R	O	O	D	J
P	I	M	E	A	M	R	I	M	A	W	V	E	E
M	R	E	N	S	M	V	D	X	I	T	U	D	L
R	E	E	I	O	R	C	B	R	E	A	C	H	E
T	W	R	P	R	R	O	J	M	N	C	D	E	H
T	A	A	A	M	S	I	H	S	O	S	E	O	R
H	L	W	D	U	M	T	O	N	U	L	E	A	I
O	L	T	D	L	O	F	A	U	A	R	R	R	I
R	S	F	R	N	E	I	V	E	A	J	I	A	I
L	S	O	E	T	I	O	L	P	X	E	O	V	R
U	A	S	S	E	R	A	W	L	A	M	M	R	O
M	R	H	S	F	L	N	I	A	M	O	D	O	T
J	A	A	T	A	P	M	C	M	T	H	M	S	W

Answer Key

6

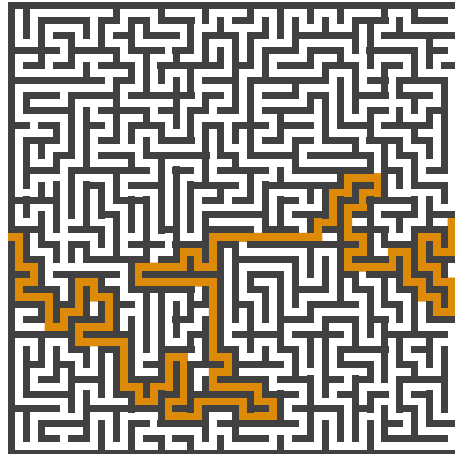**Game 1** (Page 6)

LYLBBUCEYR   CYBERBULLY

DNWAOLOD   DOWNLOAD

SVIRU   VIRUS

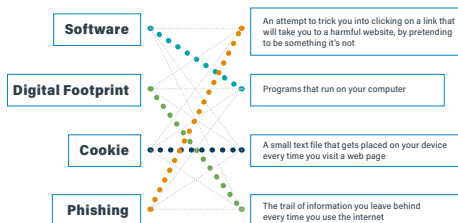SHPGINHI   PHISHING

AHRREWDA   HARDWARE

7

Game 2 (Page 7)

8

Game 3 (Page 8)

I	F	O	U	Y	C	C	V	A	D	D	O	S	I
U	E	O	C	F	L	B	U	K	T	G	K	S	G
D	N	C	Y	A	I	A	L	B	U	G	D	O	O
A	C	V	B	L	C	H	N	D	K	B	K	D	N
T	R	S	E	M	K	O	E	D	E	S	I	A	O
A	Y	P	R	E	J	N	R	K	N	C	P	A	N
M	P	O	A	I	A	E	A	N	N	C	N	A	C
I	T	O	T	I	C	Y	B	G	N	G	Y	D	M
N	I	F	T	C	K	P	I	F	D	Y	D	Y	O
I	O	I	A	S	I	O	L	B	I	A	A	U	C
N	N	N	C	Y	N	T	I	Y	N	E	T	N	D
G	K	G	K	N	G	I	T	G	P	A	Y	E	N
N	E	V	B	A	D	C	Y	S	F	E	D	Y	O
T	Y	N	A	C	G	L	A	B	R	N	G	R	N

9

Game 4 (Page 9)

Software — Programs that run on your computer

Digital Footprint — The trail of information you leave behind every time you use the internet

Cookie — A small text file that gets placed on your device every time you visit a web page

Phishing — An attempt to trick you into clicking on a link that will take you to a harmful website, by pretending to be something it's not
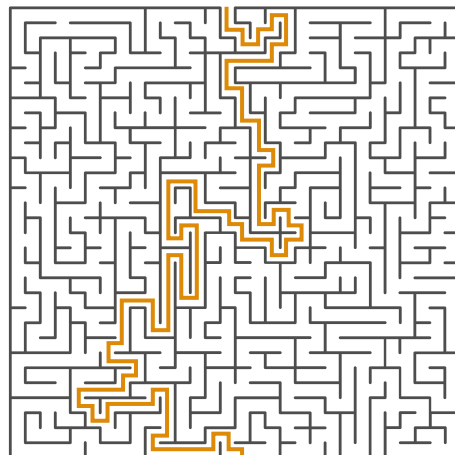
10

Game 5 (Page 10)

13

Game 6 (Page 13)

AOSWSRDP   PASSWORD

OOIKCE   COOKIE

PSMA   SPAM

RRSVEE   SERVER

IEIDTTNY   IDENTITY

16

Game 7 (Page 16)

LAFWLRIE   FIREWALL

RLOLT   TROLL

RKCAHE   HACKER

DUOPLA   UPLOAD

EAWADR   ADWARE

17

Game 8 (Page 17)

18

Game 9 (Page 18)

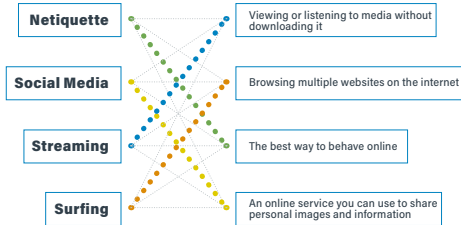WLT = DOG

HZUV = SAFE

HVXIVG = SECRET

Answer Key

continued

- At least 10 characters
- Include uppercase letters
- Include lowercase letters
- Include numbers
- Include symbols

Netiquette	Viewing or listening to media without downloading it
Social Media	Browsing multiple websites on the internet
Streaming	The best way to behave online
Surfing	An online service you can use to share personal images and information

IETENRNT	INTERNET
CRPAYVI	PRIVACY
RWAAEML	MALWARE
ADTA	DATA
GUFIRSN	SURFING

E	A	X	T	A	D	U	O	L	C	E	I	O	E
D	F	E	L	A	R	L	E	R	R	O	O	D	J
P	I	M	E	A	M	R	I	M	A	W	V	E	E
M	R	E	N	S	M	V	D	X	I	T	U	D	L
R	E	E	I	O	R	C	B	R	E	A	C	H	E
T	W	R	P	R	R	O	J	M	N	C	D	E	H
T	A	A	M	S	I	H	S	O	S	E	O	R	R
H	L	W	D	U	M	T	O	N	U	L	E	A	I
O	L	T	D	L	O	F	A	U	A	R	R	R	I
R	S	F	R	N	E	I	V	E	A	J	I	A	I
L	S	O	E	T	I	O	L	P	X	E	O	V	R
U	A	S	S	E	R	A	W	L	A	M	M	R	O
M	R	H	S	F	L	N	I	A	M	O	D	O	T
J	A	A	T	A	P	M	C	M	T	H	M	S	W

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