

SECURITY CAT'S CYBERSPACE ACADEMY



ACTIVITY BOOK



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V7JLQ L.E7 E.EE

Greetings Cadet!

**Welcome to Security Cat's
Cyberspace Academy. Your
mission, should you choose
to take it, is to remain cyber
safe while traveling through
cyberspace.**

**Do you have what it takes to
be a Cyber Safe Cyberspace
Security Cat? We know you do!**

>F.JOV3FVVFE.E.E E^OF

TO BOLDLY GO WHERE
NO SECURITY CAT HAS
GONE BEFORE.



CYBER CRYPTOGRAM

You just received your daily motivational message from High Command, but something went haywire, and the message is all mixed up. Decode the message below. Record each letter in the box as you figure out which letter it has replaced. (Solutions are in the back of the book.)



M.I.B.

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
													T												

I C A J A V Y D C S G O V Y A B Z I C A A F Z
 V N O F O F N Z K K V S H F N C S Z R Y C F Z
 N U Z D C C B C S N U Z K O F N I C A D C S N
 N B I N C G C B H Z N N U Z X V F N O Q Z F
 J A N I C A D C S N D E Z Y Y C S V N I C A
 D C S N Y Z N V N U O M Z O S I C G I C A B
 Z S Z B H I C B O S I C G I C A B N V X Z C B
 O S I C G I C A B F K O R Z

T C U S S I R O F U

SPACE JOKES

You have encountered some aliens, and they love jokes! Your universal language translator is malfunctioning and can't translate the punch-lines. It is up to you to decode the answers. Use the pigpen cipher diagram below. (Solutions are in the back of the book.)



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	



1. What did the alien say to the cat?

>J.U.O Q.O >E <E<F L.F>>O.F

2. Where do astronauts like to hang out?

>N.O V.F.J.L.O U.J.F

3. What do planets like to read?

L.E.Q.O> U.E.E.U.V

4. What kind of music do planets sing?

Q.Q.F><O.Q.V

5. How do you know when the moon has had enough to eat?

V.N.O.O F> F.V C<L.L

6. Why did the sun go to school?

>E F.O> U.F.F.F.N>O.F

7. Why did the people not like the restaurant on the moon?

U.O.L.J<V.O >N.O.F.O V.J.V O.E J>F.E.V.F.N.O.F.O

8. What holds the moon up?

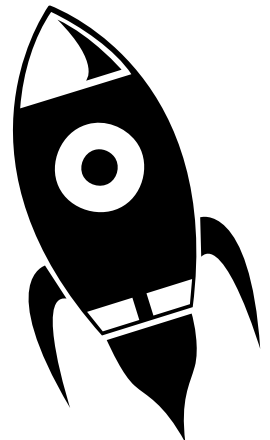
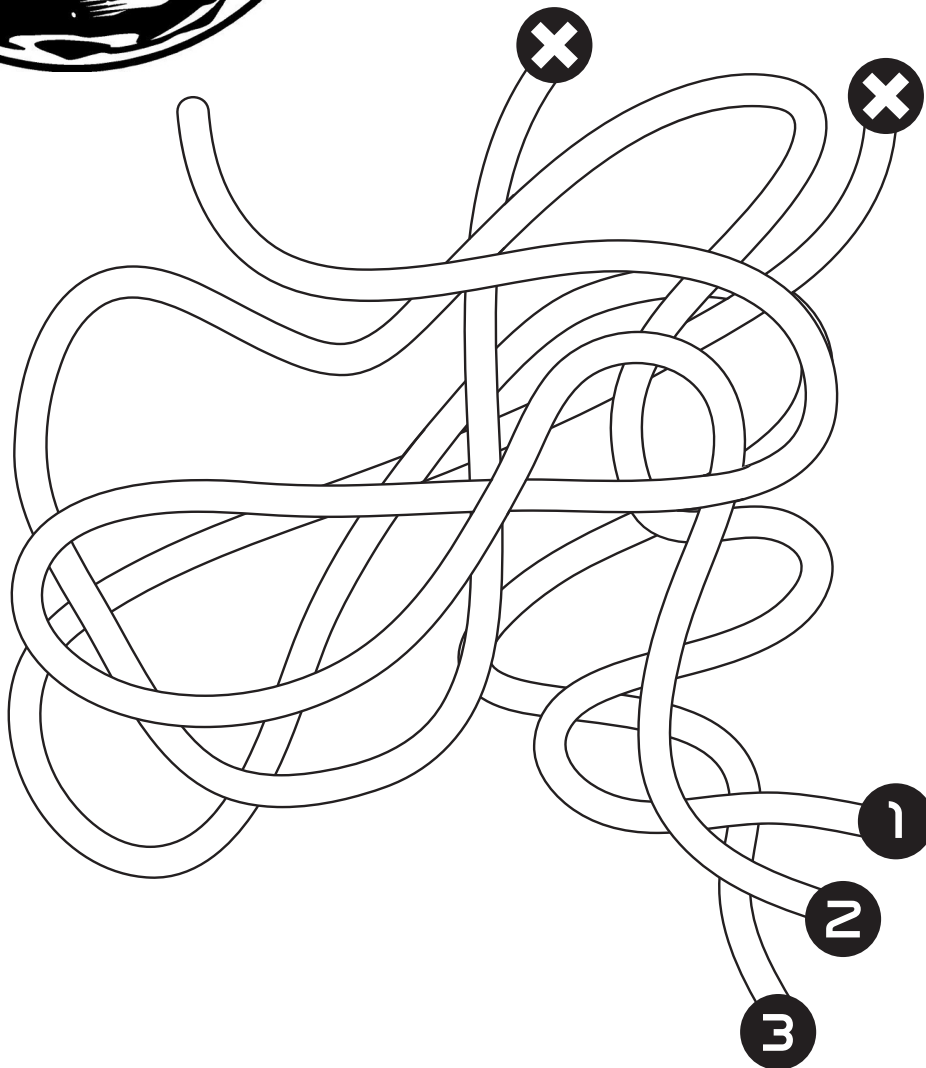
Q.E.E.O U.O.J.F.V

9. How do you organize a space party?

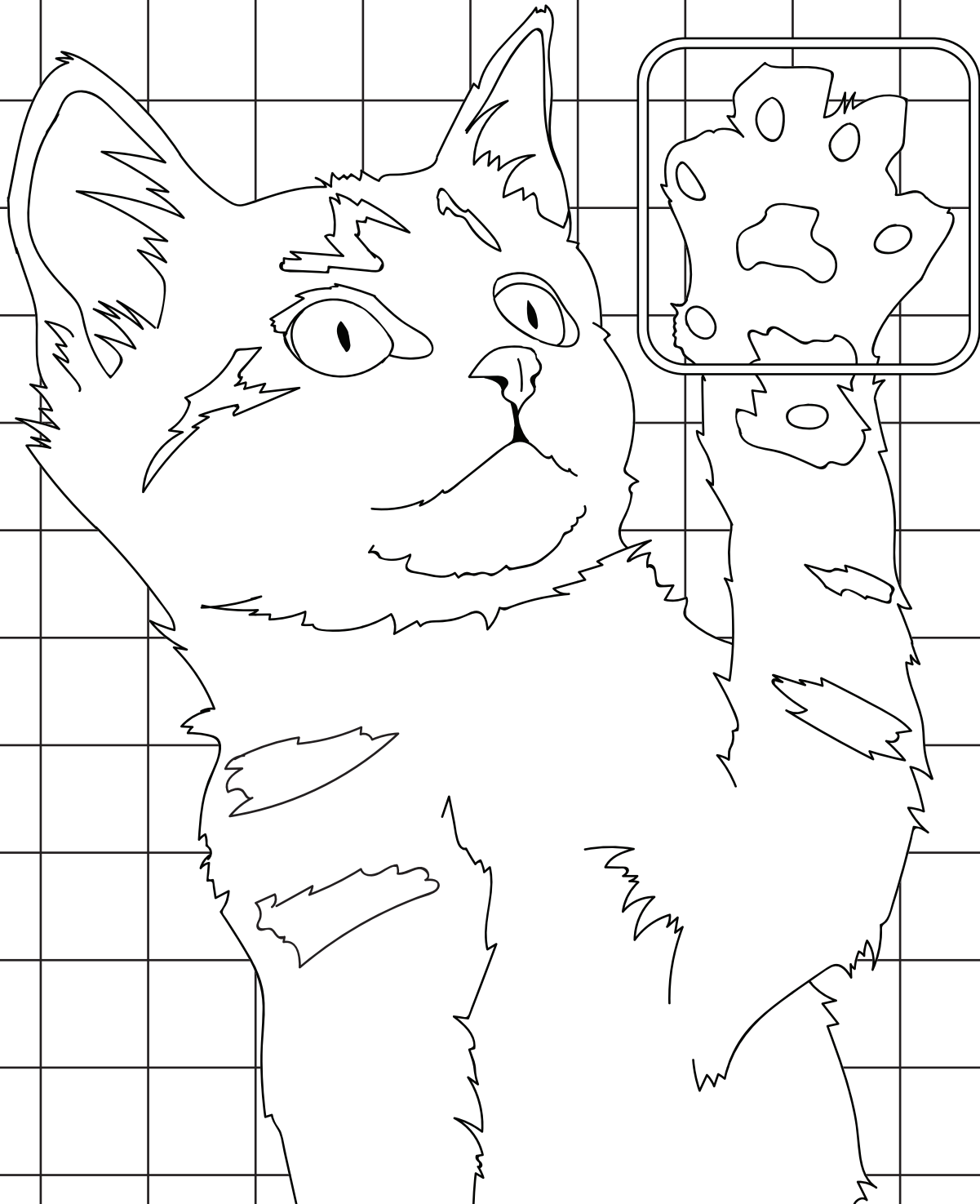
<E< F.L.J.O.O>

CYBER SPACE ROUTES

Incident response is all about time. Help Security Cat fly the S.S. Cyber Security back to the moon base so he can report a security incident in a timely manner. If you select the wrong route, Security Cat has to start over from the beginning, losing valuable time. (Solutions are in the back of the book.)



>> PAW PRINT SCAN COMPLETE
>> BIOMETRICS CONFIRMED



BIOMETRIC DOODLES

Biometrics is the process by which a person's unique traits are detected and recorded by an electronic device or system as a means of confirming identity. Some of our devices already use biometrics to authenticate our identities, like when we unlock our phones with our fingerprints. Draw a different pattern in each of the squares and paw prints below, making them unique.



MISSION LOGIC

DATA BREACH ATTACKS

Four space ships have found themselves the victims of data breaches. Each one was attacked in a different method, while travelling through different sectors, and losing an astonishing number of records. Can you match the space ships with the number of lost records, the type of attack and the star date of breach from the following clues? (Solutions are in the back of the book.)



- The four data breaches were: the one that lost 10 million, the one that took place latest in the star date, the Ransomware attack, and the one that hit the S.S. Tabby.
- The USB attack happened before the S.S. Bobtail got breached, which was before the 101 million records were lost. The USB drop did not result in the loss of 85 million records.
- The last data breach did not lose 30 million records nor happen to the S.S. Sphinx.
- The social engineering attack took place before the S.S. Tabby was breached, and did not result in the loss of 85 million records.

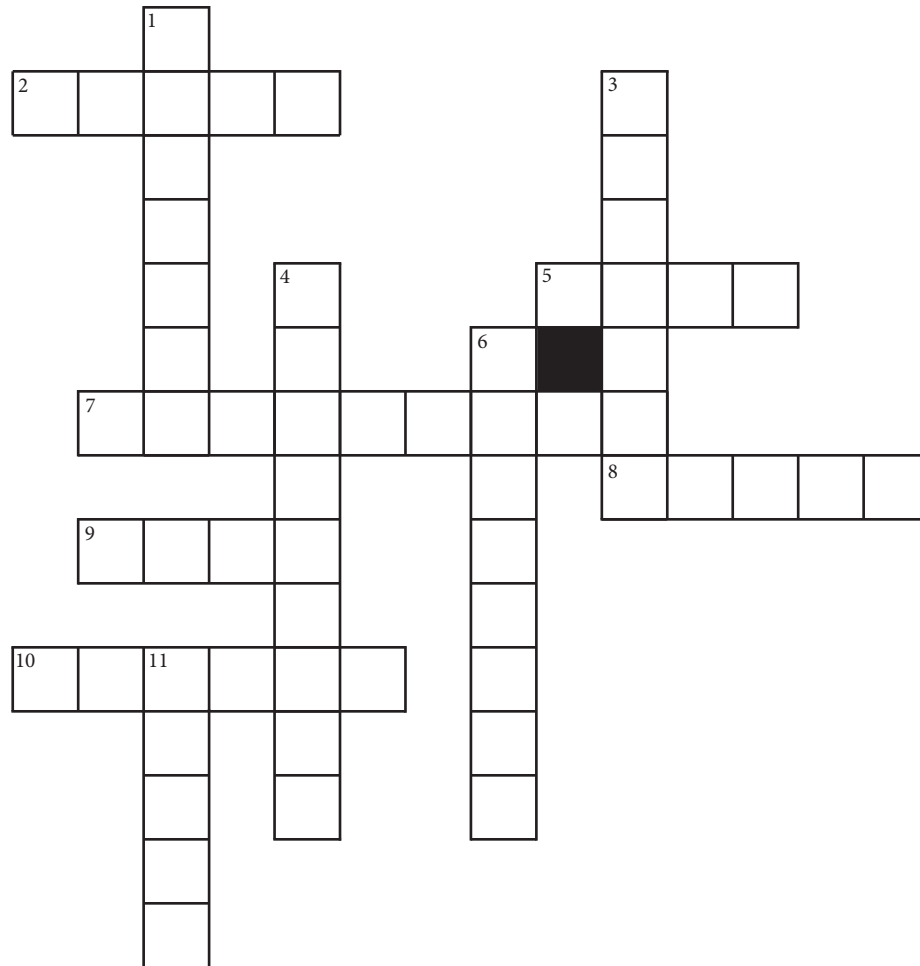
		SPACE SHIP				ATTACK TYPE				RECORDS LOST			
		S.S. Tabby	S.S. Bobtail	S.S. Bengal	S.S. Sphinx	Ransomware	Social Engineering	Speare Phishing	USB Drop	10 Million	30 Million	85 Million	101 Million
STAR DATE	One												
	Two												
	Three												
	Four												
RECORDS LOST	10 Million												
	30 Million												
	85 Million												
	101 Million												
ATTACK TYPE	Ransomware												
	Social Engineering												
	Speare Phishing												
	USB Drop												

SPACE SHIP	RECORDS LOST	ATTACK TYPE	STAR DATE

CYBER CROSSWORD

EASY

Captain Security Cat loves a good crossword puzzle. He just loves fitting letters into boxes, almost as much as he loves fitting himself into boxes. (Solutions are in the back of the book.)



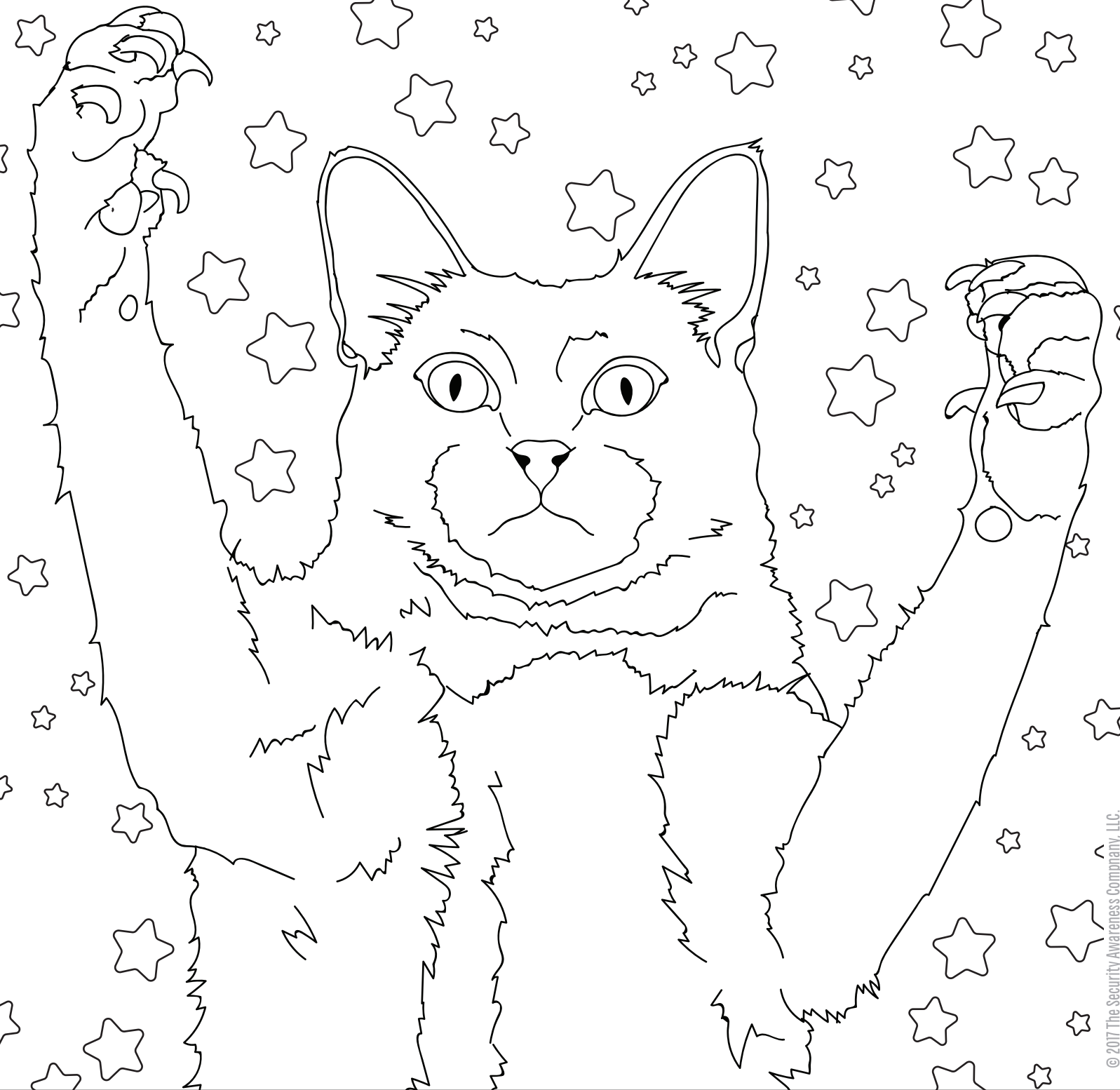
ACROSS:

2. Don't be a cyber ____! Be kind online and in person.
5. Ask your parents for _____ whenever you need it!
7. A person who travels in space is called an _____.
8. The Milky Way is made up of these.
9. The Earth has one that comes out at night.
10. What do you use to travel to the moon?

DOWN:

1. Jupiter, Venus and Earth are all _____.
3. You can always ask them questions or talk to them when you don't understand something. They are here to help you!
4. Never talk to these people in real life or online.
6. This protects your account from the bad guys. It should be long and hard to guess.
11. Think before you ____! You don't want to download malware by accident!

ALIENS



CYBER CRYPTOGRAM

You just received your daily motivational message from High Command, but something went haywire, and the message is all mixed up. Decode the message below. Record each letter in the box as you figure out which letter it has replaced. (Solutions are in the back of the book.)



ALIEN PHISH

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
																S									

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

CYBER SECURITY WORD SEEK

EASY

Find the following words in the puzzle below. They can run forward, backward, diagonally, up or down. (Solutions are in the back of the book.)



APT
AWARENESS
BACKUP
CISO
CLOUD
COMPLIANCE
CONFIDENTIALITY
CYBERCRIME

DATA BREACH
EMAIL
HACKER
HUMAN FIREWALL
INCIDENT RESPONSE
INSIDER
MALWARE
MOBILE

PASSWORDS
PHISHING
PHYSICAL
POLICY
PRETEXTING
PRIVACY
PROTECTION
RANSOMWARE

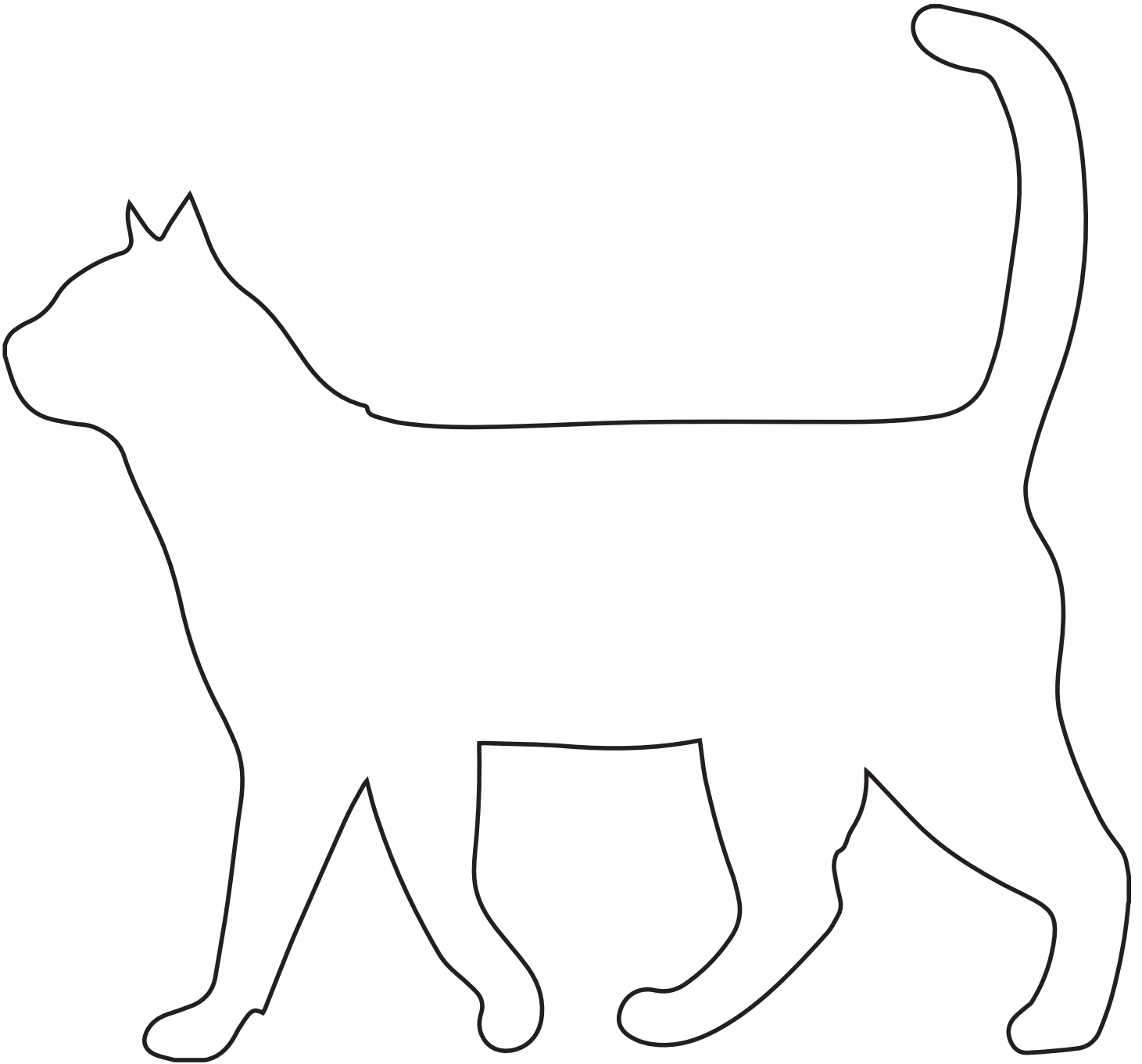
REPORTING
SECURITY CAT
SCAMS
SMARTPHONE
SOCIAL ENGINEERING
VPN
WIFI



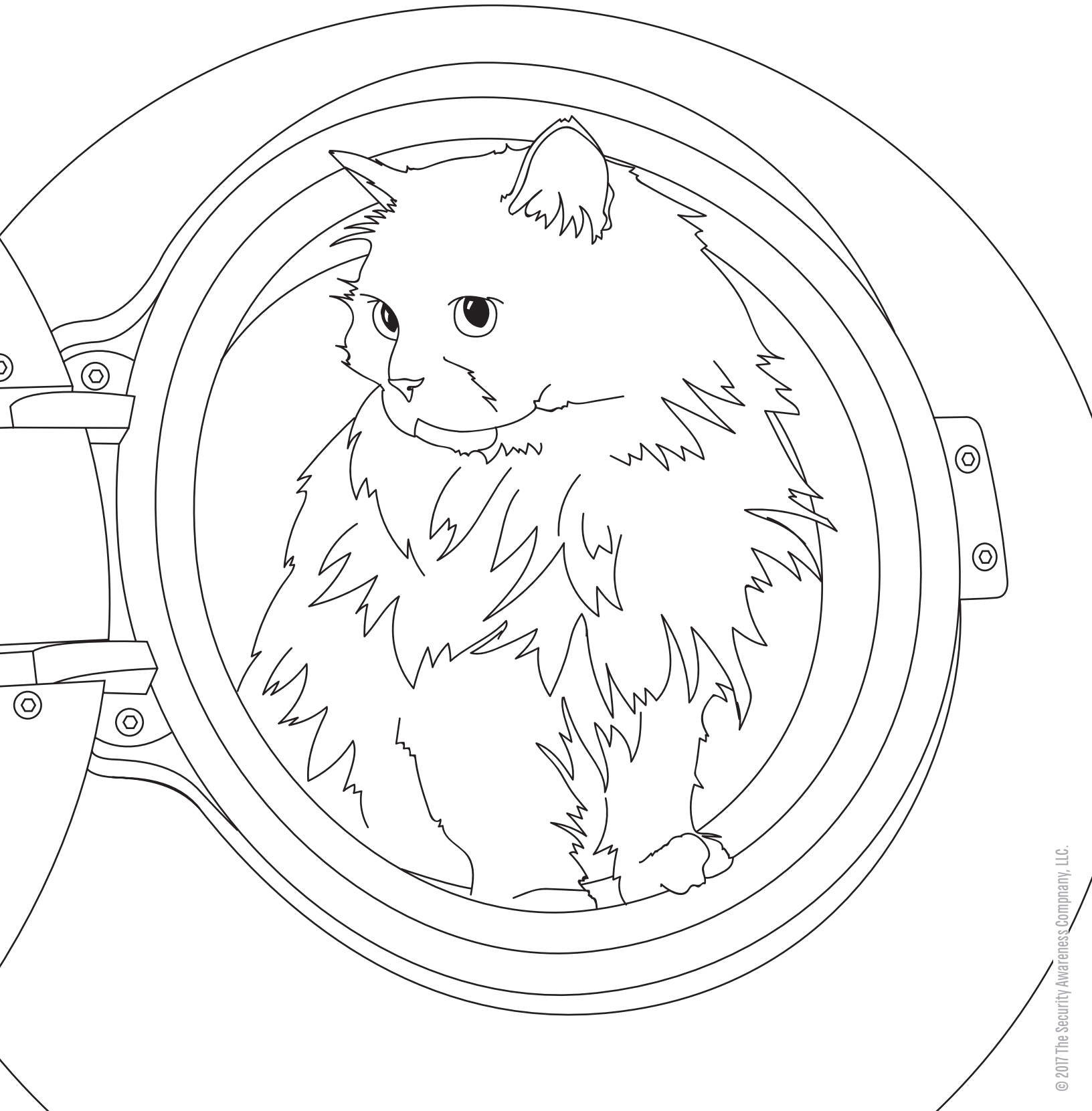
S O C I A L E N G I N E E R I N G F A L
A Y L X F M C O M P L I A N C E V I L M
B B E L E S O C F O U R U S E S P W X L
A S C R Q U N B S M A R T P H O N E J C
C P A E A D F E I S S G H H T E X A K S
K A B P O W I E L L S S E N E R A W A G
U S E O E S D O F I E I N G S P A I P R
P S P R E T E X T I N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

SECURITY CAT DOODLES

Security Cat knows to protect his identity when travelling though cyberspace. Help him to further disguise himself by doodling random patterns in his outline and coloring in your doodles.



SECURITY CAT TO MOON BASE: I HAVE
MADE CONTACT WITH THE LOCALS.
INTELLIGENCE.. UNCERTAIN.



CYBER SYLLACROSTIC

Fill in the answers to the clues by using all of the syllables below. The number of syllables to be used in each answer is shown in parentheses. The number of letters in each answer is indicated by the dashes. Each syllable will be used once. (Solutions are in the back of the book.)



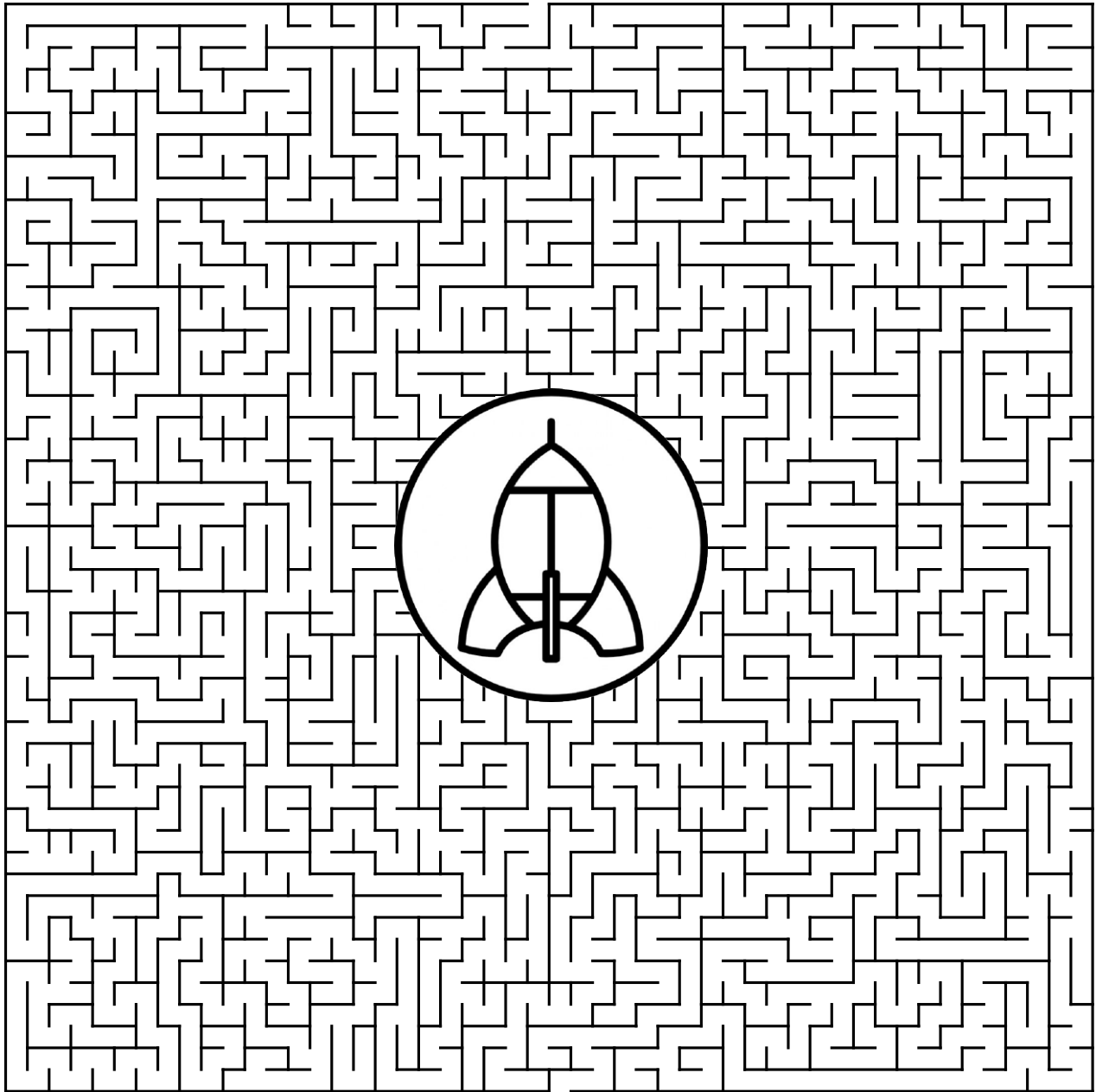
A AL BA BER CA CAL CI CIAL CON CRIME CRYP CY CY DGES
 DEN DENT DENT DIS EN EN ER FAC FI FI FI GI HI I I I I IN
 ING LOCK MAL MOUSE NEER NESS NI NON O PAA PO POL PORT
 RAN RE RE ROR SAL SCREEN SO SOM TECH TI TI TION TION
 TOR TWO TY VER WALL WARE WARE WARE



1. Keeping secrets a secret (7) _____
2. Compliance mandate that regulates protected health information (2)_____
3. Technique to see the real URL under a link (3) _____
4. A more secure form of authentication (3) _____
5. Human attack using non-technical methods (6)_____
6. Not just viruses anymore (2) _____
7. Crucial to know and follow this at all times (3) _____
8. This is one of the most common causes of data breaches (2) _____
9. Passphrase or PIN (2) _____
10. Physical identification (2) _____
11. Prevents destructive/hostile data from crossing a cyber barrier (3) _____
12. See something? Say something! (2) _____
13. Shredding (3) _____
14. Simplest method for protecting information (3) _____
15. Malware that locks your computer and demands money to open it (3) _____
16. Ransomware, identity theft, data breaches, oh my! (3) _____
17. User login (6) _____
18. Physical (4) _____
19. Report this (3) _____
20. A full-time job that is our collective responsibility (3) _____

THE GREAT SPACE MAZE

You are the Navigator on the S.S. Cyber Security, and it is your job to help Captain Security Cat navigate the great expanse of space. Good luck! (Solutions are in the back of the book.)



CYBER SECURITY WORD SEEK

(HARD)

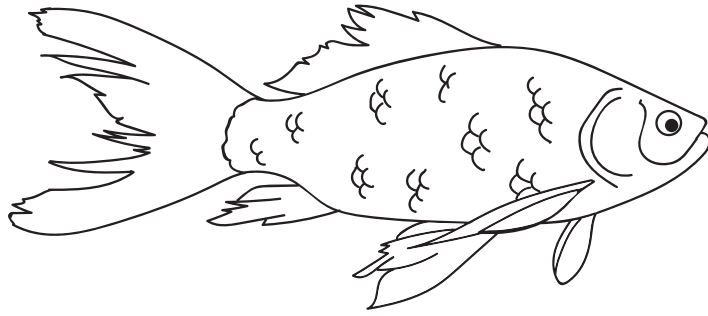
Solve the following clues to determine the list of words found in the grid below. They can run forward, diagonally, up or down. (Solutions are in the back of the book.)



1. This kind of phishing targets high-profile individuals.
2. One of the most common errors in Healthcare breaches.
3. Do this when in doubt.
4. Bad spelling, grammar mistakes, urgent requests, threats and other phishy tell-tale signs.
5. 81 percent of hacking-related breaches leveraged weak and/or stolen _____.
6. _____ misuse was the main cause of breaches in the Financial industry.
7. The industry most susceptible to phishing attacks (according to the 2017 Verizon data breach report).
8. The first I in PII.
9. More than 15 million people in the US have had this stolen
10. HIPAA, FERPA, PCI-DSS, etc.
11. Do this before you click.
12. Cybercriminals' top attack method with 638 million attacks in 2016.
13. The T in IoT.
14. The P in VPN.
15. When something goes wrong, you need this kind of plan (2 words).
16. White, black, grey. Experts at what they do.
17. Keep your passwords here.
18. AES-256.
19. Ensuring the privacy of sensitive data.
20. Two-factor _____.



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



CATCHING SPACE PHISH

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CYBER CRYPTOGRAM

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WE DID OUR BEST

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
											E														

M G A S F R R L D L T X T G P L S P

M G A T B L I Z G R L W A R C T L C

X L T S L R P O W F P M G A C G N B

X T G P L S P M G A T B L I Z F B V A S W F B

X G B B N U I L F R C V N P N E F P L T N B H P G

F R F S S L X P F U I L C L E T L L M G A S F R

R L D L T T L V G D L F I I T N B H

H L D N R V N P R N S H

MISSION LOGIC

SECURITY AWARENESS TRAINING

The S.S. Mainecoon just finished its quarterly security awareness training, and as an incentive to boost participation, they offered prizes to the first 100 employees who completed the training. Can you figure out the first four employees to complete the training, their job titles, the order in which they completed the training and the prizes they received? (Solutions are in the back of the book.)



1. Mittens was the fourth to finish and is not the CTO.
2. Fluffy didn't win the shredder and Sir Scratcher didn't win the backup software or the VPN.
3. Of the backup software winner and the person to first complete the training, one was Cosmo and the other is Director of Marketing.
4. The password manager (who went to the third person to finish the training) did not go to the CTO and was not won by Sir Scratcher.
5. The service technician either won the backup software or the password manager.
6. The person who won the VPN (who wasn't Cosmo) is not the Director of Marketing or the CTO.
7. The VPN went to the person who completed training after the service technician.
8. The Director of Marketing did not win the backup software, which was won before the VPN.

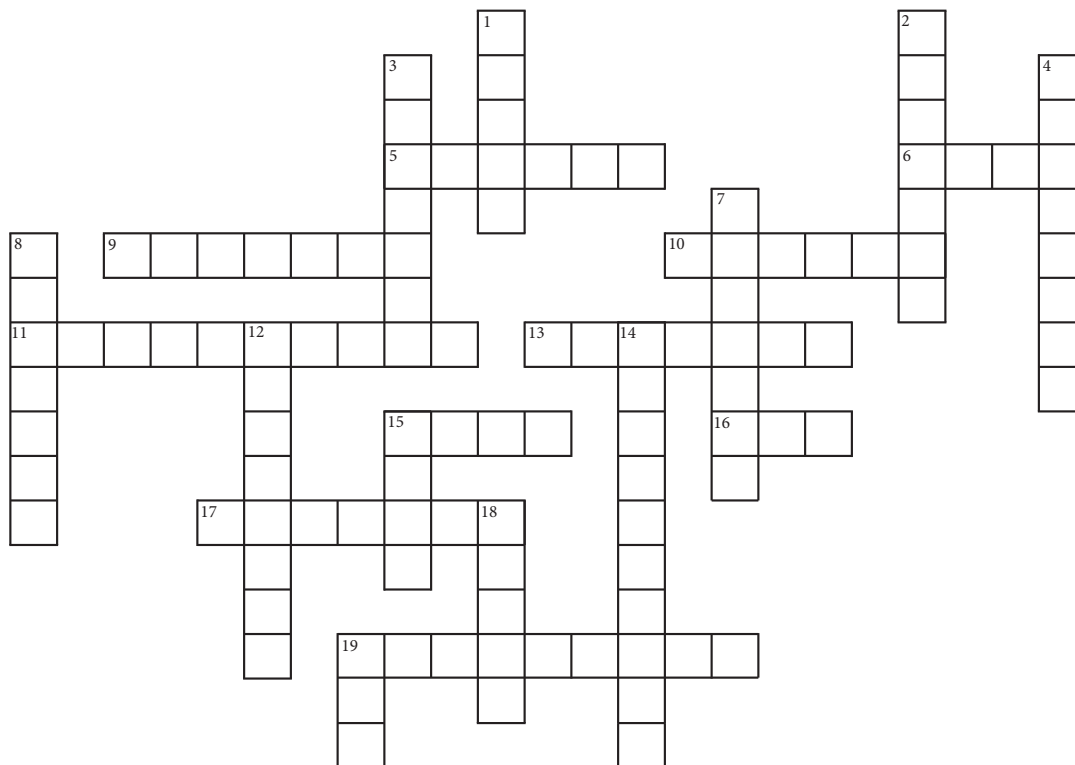
		EMPLOYEE				JOB TITLE				PRIZE			
		Fluffy	Sir Scratcher	Cosmo	Mittens	CTO	Dir. of Marketing	Exec. Assistant	Service Tech	Backup Software	Password Manager	Shredder	VPN
ORDER	First												
	Second												
	Third												
	Fourth												
PRIZE	Backup Software												
	Password Manager												
	Shredder												
	VPN												
JOB TITLE	CTO												
	Dir. of Marketing												
	Exec. Assistant												
	Service Tech												

ORDER	EMPLOYEE	JOB TITLE	PRIZE
First			
Second			
Third			
Fourth			

CYBER CROSSWORD

HARD

Captain Security Cat loves a good crossword puzzle. He just loves fitting letters into boxes, almost as much as he loves fitting himself into boxes. (Solutions are in the back of the book.)



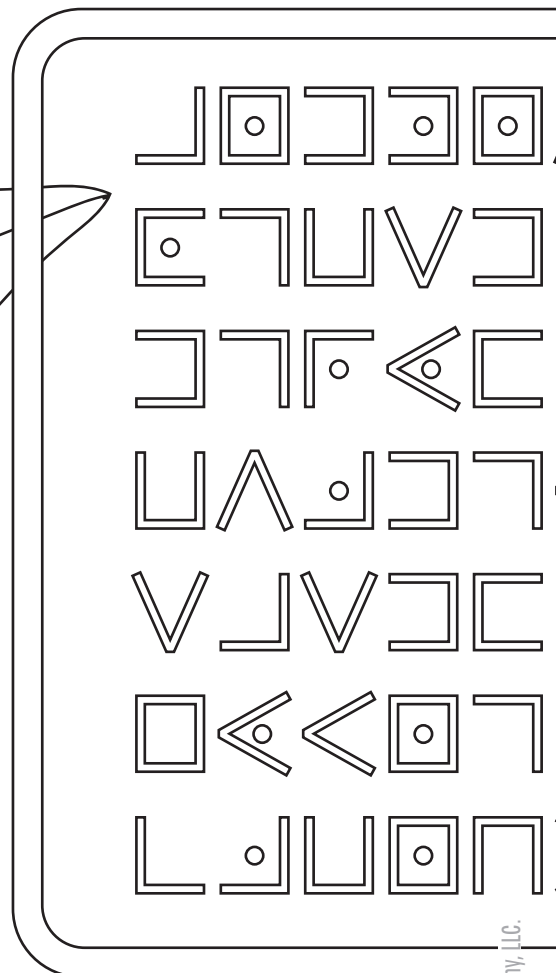
DOWN:

1. Passwords are private, so never do this with them.
2. Viruses, Trojans and key loggers are all types of these.
3. The largest planet in our solar system.
4. These types of emails often have bad spelling and grammar, and display a false sense of urgency.
7. Never be afraid to ask your _____ for help. Also tell them if you're being cyberbullied or know someone who is.
8. What happens online, stays online because the internet is _____.
12. Our galaxy, also a candy bar.
14. Identity theft, financial fraud, stalking, bullying, criminal hacking, email spoofing and piracy are all types of these.
15. Neil Armstrong was the first man to walk on this.
18. You should always do this to sensitive documents before throwing them away.
19. This star heats the earth.

ACROSS:

5. The unauthorized use of another's production, invention, or conception especially in infringement of a copyright.
6. You should always use a VPN when using a public _____.
9. You should have a unique password for every single online _____.
10. Use two-_____ authentication whenever it's offered.
11. This type of malware encrypts your data until you pay up.
13. 99% of these people are not criminals, but 1% has made a bad name for them
15. The red planet.
16. Every ____ seconds someone's identity is stolen.
17. Strong passwords include numbers, letters and _____.
19. See _____, say _____!

HACKING INTENSIFIES



SOLUTIONS



CYBER CRYPTOGRAMS

MIB • Page 3

You build on failure. You use it as a stepping stone. Close the door on the past. You don't try to forget the mistakes, but you don't dwell on it. You don't let it have any of your energy, or any of your time, or any of your space.

— *Johnny Cash*

ALIEN PHISH • Page 11

I think we're going to the moon because it's in the nature of the human being to face challenges. It's by the nature of his deep inner soul... we're required to do these things just as salmon swim upstream.

— *Neil Armstrong*

WE DID OUR BEST • Page 19

You can never protect yourself one hundred percent. What you do is protect yourself as much as possible and mitigate risk to an acceptable degree. You can never remove all risk.

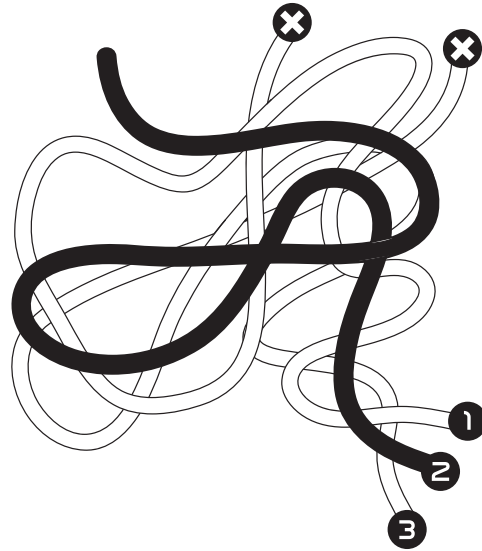
— *Kevin Mitnick*

SPACE JOKES

PIGPEN CIPHER • Page 4

1. TAKE ME TO YOUR LITTER
2. THE SPACE BAR
3. COMET BOOKS
4. NEPTUNES
5. WHEN IT IS FULL
6. TO GET BRIGHTER
7. BECAUSE THERE WAS NO ATMOSPHERE
8. MOON BEAMS
9. YOU PLANET

CYBER SPACE ROUTES • Page 5



MISSION LOGIC

DATA BREACH ATTACKS • PAGE 8

SPACE SHIP	RECORDS LOST	ATTACK TYPE	STAR DATE
S.S. Tabby	30 million	USB Drop	Two
S.S. Bobtail	85 million	Ransomware	Three
S.S. Sphinx	10 million	Social Engineering	One
S.S. Bengal	101 million	Spear Phishing	Four

SECURITY AWARENESS TRAINING • PAGE 20

ORDER	EMPLOYEE	JOB TITLE	PRIZE
First	Sir Scratchter	Dir. of Marketing	Shredder
Second	Cosmo	CTO	Backup Software
Third	Fluffy	Service Tech.	Password Manager
Fourth	Mittens	Exec. Assistant	VPN

CYBER SYLLACROSSTIC • PAGE 15

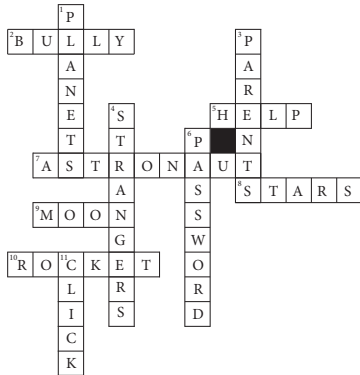
- | | | | |
|-----------------------|----------------|----------------|--------------------|
| 1. CONFIDENTIALITY | 6. MALWARE | 11. FIREWALL | 16. CYBERCRIME |
| 2. HIPAA | 7. POLICY | 12. REPORT | 17. IDENTIFICATION |
| 3. MOUSEOVER | 8. ERROR | 13. DISPOSAL | 18. NONTECHNICAL |
| 4. TWO FACTOR | 9. LOCK SCREEN | 14. ENCRYPTION | 19. INCIDENT |
| 5. SOCIAL ENGINEERING | 10. BADGES | 15. RANSOMWARE | 20. AWARENESS |

SOLUTIONS

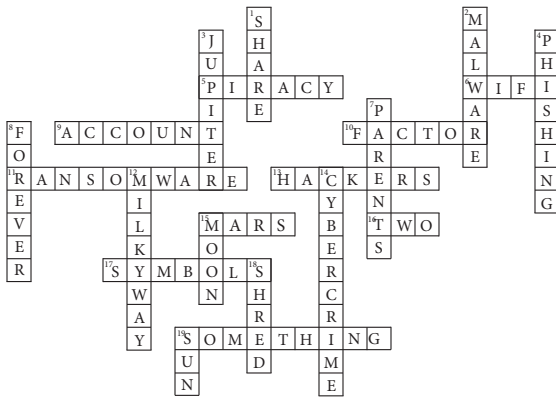


CYBER CROSSWORD

EASY • Page 9

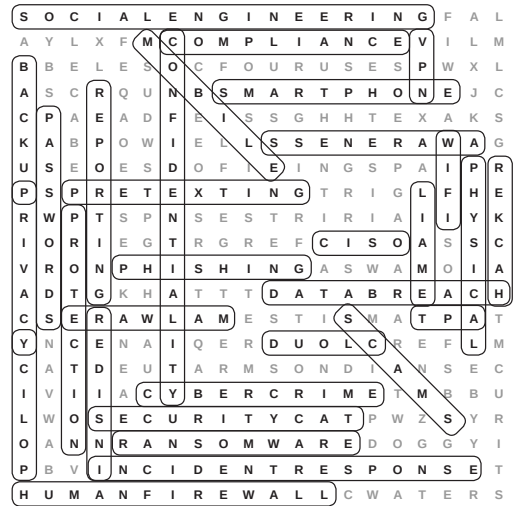


HARD • Page 21

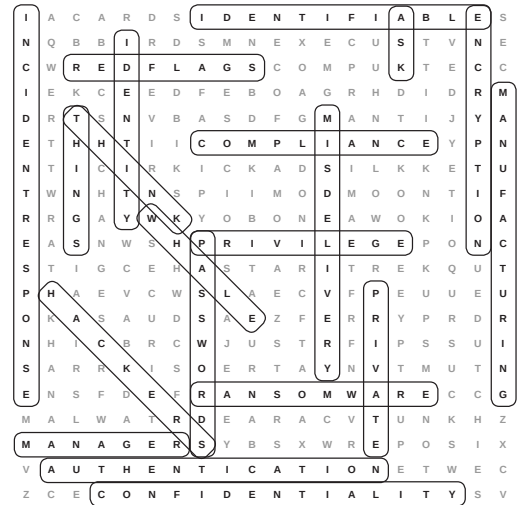


CYBER WORDSEARCH

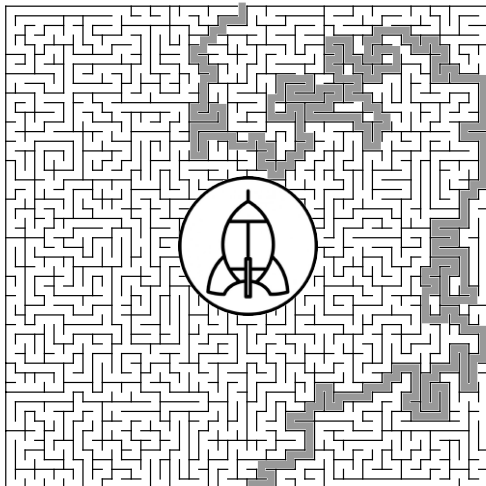
EASY • Page 12



HARD • Page 17



THE GREAT SPACE MAZE • Page 16



1. WHALE
2. MISDELIVERY
3. ASK
4. REDFLAGS
5. PASSWORDS
6. PRIVILEGE
7. MANUFACTURING
8. IDENTIFIABLE
9. IDENTITY
10. COMPLIANCE
11. THINK
12. RANSOMWARE
13. THINGS
14. PRIVATE
15. INCIDENT RESPONSE
16. HACKERS
17. MANAGER
18. ENCRYPTION
19. CONFIDENTIALITY
20. AUTHENTICATION

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