

TEACHER ANSWER KEY · GRADES 3-5

Passphrase power

Worksheet 1: Passphrase builder

Step 1: Pick a method

Circle one: Silly sentence (picture a silly scene and use the whole words) or Random words (roll a die or point with your eyes closed at the word bank).

Step 2: Write your words

Write 4 or more words. Squish them together or put dashes between them.

Step 3: Count

Count the letters. How many? Is it 16 or more? If not, add another word.

Step 4: Check for clues

Does it have your name, birthday, pet, school, team or a famous saying? If yes, swap that word. Write what you changed.

Step 5: Memory picture

Draw or describe a picture that helps you remember your practice passphrase.

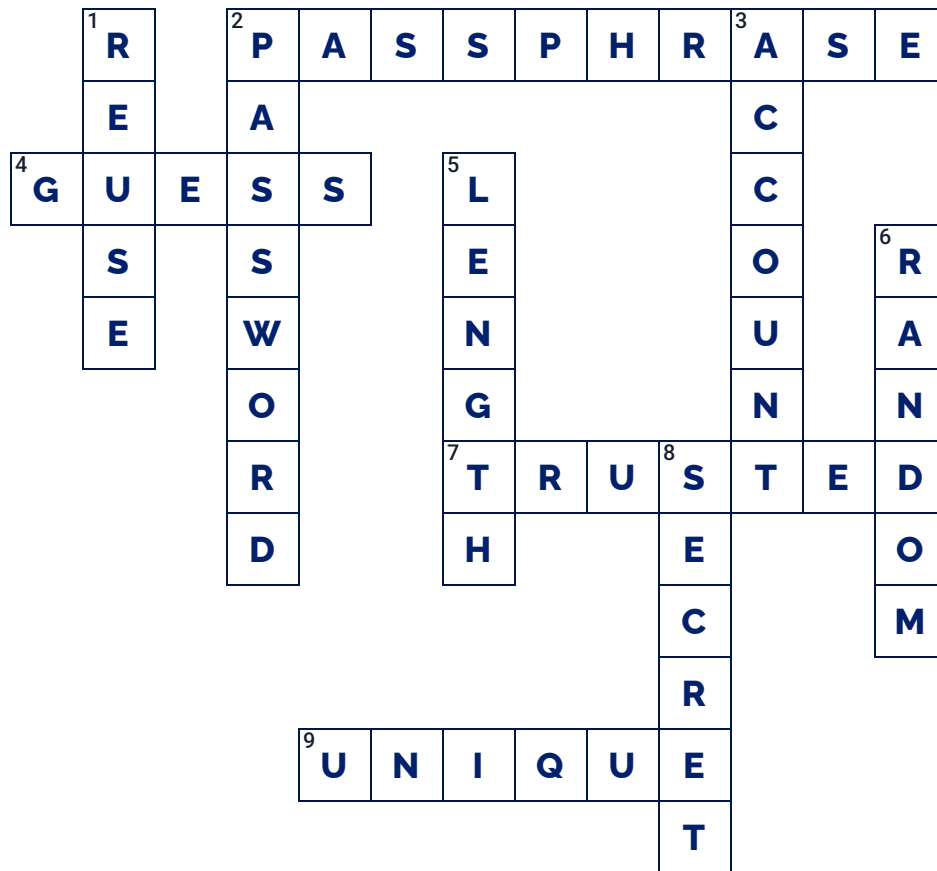
Step 6: My rules

Finish the sentences: I use a different passphrase for _____. I share my school password only with _____.

What good answers look like

- Strong practice passphrases have 4 or more words that do not belong together, for example tuba-pickle-rainbow-sled or WalrusMeadowZipperLemon.
- Step 3: every 4-word passphrase from the word bank has at least 18 letters (the shortest words are tuba and sled). Silly-sentence passphrases can land short; students should add a word, not a symbol.
- Step 4: watch for names, pets, birthdays, the school mascot or a favorite team. Praise students who swapped a word.
- Step 6: a different passphrase for every account; share a school password only with a parent or guardian, the teacher or the school technology helper.
- This sheet is practice. If it goes home, ask students to cross out the passphrase so nobody uses it for a real account.

Worksheet 2: Passphrase crossword



Across

2. A password made of several words in a row **PASSPHRASE**
4. What a password thief tries to do, over and over **GUESS**
7. A ___ adult may help you with your school password. **TRUSTED**
9. One of a kind. Every account needs a ___ passphrase. **UNIQUE**

Down

1. To use the same password again on another account (don't do it)
REUSE
2. A secret you type to prove an account is yours **PASSWORD**
3. Your own space in an app or website that you log in to **ACCOUNT**
5. How long a password is. More of this makes it harder to guess.
LENGTH
6. Picked by chance, like rolling a die **RANDOM**
8. Something you keep to yourself, like your password **SECRET**

Scenario cards

CARD	MODEL ANSWER
1. Card 1: Finish my level	Say no thanks. Your password stays secret, even with friends. Anyone with your password can do anything you can do in the account, including change it so you're locked out.
2. Card 2: One password for everything	If one account leaks, someone could get into all three. She should ask a trusted adult to help her make a different passphrase for each. Different passphrases keep a problem in one place.
3. Card 3: Tricky or long?	canoe-jelly-parrot-glacier. It is longer and the words are random. Guessing programs try common swaps like @ for a first. Length makes guessing much harder.
4. Card 4: Someone watching	Cover the keyboard, stop typing and tell the librarian or your teacher. Change the password with an adult if you think they saw it. A password someone saw is not secret anymore.
5. Card 5: Dog-name password	No. People who know you, or see your posts, could guess it. Use random words instead. Personal facts are easy to find and easy to guess.
6. Card 6: Sticky note	Suggest they remove it and ask the teacher for a safe way to remember it, like a memory picture. Anyone who picks up the Chromebook can read the note.
7. Card 7: The game had a problem	Tell your parent or guardian. Change the game password and the school password, with an adult's help, to new passphrases. When one password leaks, every account that uses it is at risk.
8. Card 8: Level-up offer	Say no and tell a trusted adult. Giving your login away means losing control of your account, even to someone you sort of know.
9. Card 9: Forgot it	Stop guessing and ask your teacher or the school technology helper to reset it. Teachers and school tech staff reset passwords safely. Asking is smart, not embarrassing.
10. Card 10: Password to watch a video	Don't type it. Close the box and show your teacher. Your school password belongs only on your school's real login page. Other sites asking for it are a trick.

Exit ticket

QUESTION	ANSWER
Circle the stronger one: Tiger7! or tuba-pickle-rainbow-sled. Why?	tuba-pickle-rainbow-sled. It is longer and made of random words, so there are far more possible guesses.
Your game and your school account have the same password. Is that OK? What should you do?	No. Make a different passphrase for each account, with a trusted adult's help.
Name one person you may share a school password with.	A parent or guardian, the teacher or the school technology helper.