



# Badge 2:

## Cybersecurity Safeguards

**T**he internet connects people and computers all over the world. A lot of information passes through computers: names, addresses, bank account numbers, and credit card numbers. This information needs to be protected so private information doesn't end up in the hands of someone who will use it to cause harm. Find out how you can be safe when you go online.

### Steps

1. Create your identity
2. Find out what information to keep private when you go online
3. Find out about sharing information safely online
4. Find out why you have to be careful about who you trust online
5. Test your knowledge of online safety rules

### Purpose

When I've earned this badge, I will know what information about me is private and how to share information safely.

## Fun Fingerprint Facts

- 1 Your fingerprints start to form before you're even born.
- 2 Your fingerprints are ridges that help you grab onto objects.
- 3 Scientists group fingerprints according to their patterns: whorls, loops, and arches.
- 4 Koalas have ridges on their fingers that look a lot like human fingerprints.
- 5 Identical twins may look exactly alike but their fingerprints are different.

## STEP 1 Create your identity

**What makes you *you*?** The way you look, your favorite movies, books, games, what you like and don't like. Your identity includes all of this information and more—it's what makes you different from other people. No one is exactly like you, right down to your fingerprints.

Fingerprints are used to identify people. They can also be used to unlock computers and phones.

### Fingerprint Types



Whorl



Loop



Arch

## STEP 2 Find out what information to keep private when you go online

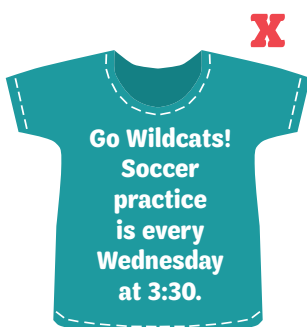
**Where you live, what you like and dislike, who your family is, and where you go to school say a lot about who you are.** Some of that information—such as where you live and go to school—is private. It should not be shared online where everyone can see it. That's because cyber criminals can steal your information and use it to cause harm.

## STEP 3 Find out about sharing information safely online

**There is a lot of information that describes you.**

You now know that some of it is private. Imagine if you put information about you on a T-shirt that you would wear in public. What would you want people to know about you? Some information that describes you is just fine to wear on a T-shirt. Other information could never go on a T-shirt because it wouldn't be safe.

**Are these T-shirts OK to wear in public?**



### Words to Know

Your **identity** includes all the information about you that makes you different from other people. For example, your name, age, family members, beliefs, favorite colors or hobbies form your identity.

**Private information** are facts about you that you don't want everyone to know. Private information includes your home address or the name of your school.

**Protect** means to keep you or your information from harm. For example, you put on sunscreen to protect yourself from sunburn and you wear a bike helmet to keep from getting hurt if you fall.

**Safety** means to be free from danger or harm. You follow safety rules to avoid danger and to keep from being hurt or losing something.

## Follow These Ten Rules to Stay Safe Online

- Don't talk to strangers online.
- Always check with an adult before going on a computer.
- Always have an adult with you when you're on a computer.
- Tell an adult if you feel scared or uncomfortable when you are on a computer.
- Don't share your password with anyone.
- Never give your private information to anyone online.
- Never open emails, files, or webpages without an adult's permission.
- Follow your parents' or school's rules for going online.
- Be careful about who and what you trust online.
- Be careful when you use your school's devices or your friends' devices.

STEP

## 4 Find out why you have to be careful about who you trust online

**To trust is to believe in something or someone.** You trust your parents to pick you up from school when they say they will. You trust your teacher to help you learn. You trust your best friend to keep promises. When you trust someone, you know it's OK to share something private.

In real life, you have to be careful who you trust. That's true when you're online, too.

### Cool Cybersecurity Jobs

If you decide to work as a cybersecurity expert some day, here's what you could do:

- Outsmart the bad guys: Hack your way into a computer network so you can find the system's weak spots and fix them.
- Carry out digital detection: Investigate cyber attacks and gather evidence.
- Keep people safe: Set up secure computer networks to defend schools, hospitals, businesses, and government offices from cyber attacks.

STEP

## 5 Test your knowledge of online safety rules

**Now that you know more about technology, you know that you have to be careful when you go online.** Not to worry, though! When you follow common sense rules online—in the same way you follow rules in real life—you and your information will be safe.

**Now that I've earned this badge,  
I can give service by:**

- Telling my friends and family what information is safe to share online.
- Sharing what I've learned about online safety with my parents and grandparents.
- Making posters of online safety rules for my classroom or library.

---

**I'm inspired to:**