



Daisy Cybersecurity

Learn how computers work and how to stay safe online by earning these three cybersecurity badges!

Badge 1:
Cybersecurity Basics

Badge 2:
Cybersecurity Safeguards

Badge 3:
Cybersecurity Investigator



This Cybersecurity badge booklet for girls provides the badge requirements, background information, and fun facts about cybersecurity for all three Daisy Cybersecurity badges. It does not include all the information needed to complete the badges. Volunteers may access the full meeting plans—including detailed activity instructions—on the Volunteer Toolkit (VTK) or by contacting their local council.

Welcome to the world of cybersecurity!

When you've earned these three badges, you'll know how to stay safe online. You'll also have fun using your investigative skills to uncover problems and find solutions.

Volunteers, please see the Volunteer Toolkit (VTK) or contact your local council for the full meeting plans, including detailed activity instructions.



Badge 1:

Cybersecurity Basics

Computers are machines. They are made up of different parts that work together to allow you to look at pictures, play games, watch movies, and send messages. Computers can connect to other computers all over the world. Computers are fun to explore with, but you need to know how to be safe while you do it.

Steps

1. Find out how computers work
2. Find out how to protect something valuable
3. Discover how you are connected, just like computers!

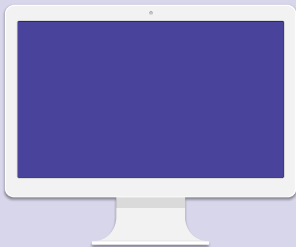
Purpose

When I've earned this badge, I will know how computers work and how to stay safe online.

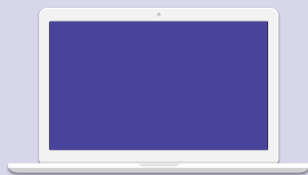
Spot the Computer

Computers come in different shapes and sizes.

Can you tell which of these is a computer?



Desktop



Laptop



Tablet



Smartphone



Video game player

Answer: They are all computers!

STEP

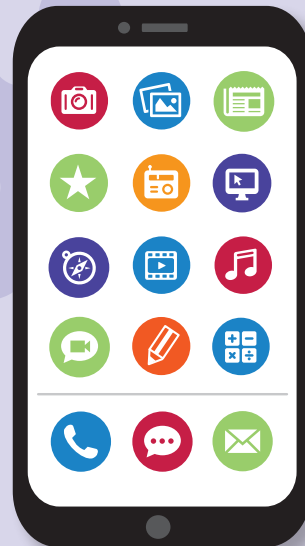
1 Find out how computers work

Find out about the parts of a computer and how they help you connect to the internet, watch videos, send messages, and much more!

From Your Room to Your Pocket

The first computers were so big that just one would fill up a whole room! They were mostly used to help people with numbers.

Now, you can hold a computer in your hand! A smartphone is a pocket-sized computer. You can do a lot more with today's computers. You can take pictures, make movies, mix music, write stories, send messages, play games, and watch videos.



MEET YOUR COMPUTER

Find out what the different parts of a computer do.

Monitor A screen that shows you pictures and words.

Webcam A digital camera that can take and send photos or videos.

Speakers
Tools that help you hear sound from your computer.

CPU The computer's "brain." It tells the other parts what to do. The CPU is a chip inside a phone or a laptop.

Keyboard A part that lets you type messages.

Mouse A part that lets you move around on the computer screen.

Printer A machine that connects to your computer. It lets you print words and pictures.



Layers of Safety

Imagine that you have been given a magical pebble. It can give you anything you wish for!

Only you and your parents know about the pebble. But people you don't know may find out about it. They may want to take it away from you!

What can you do to keep your pebble safe? You can put layers of protection around it!

First, you could put the pebble in a special box.

Next, you could lock the box with a key.

After that, you could hide the locked box under your bed.

When you use a computer, you do the same thing. You create layers of protection to keep it safe.

STEP

2 Find out how to protect something valuable

When you protect something, you keep it safe.

Locking your front door protects your house. Putting sunscreen on protects your skin. It's the same with your computer. Find out how you can protect your computer so you and your computer are safe.



WORDS TO KNOW

☑ **Protect**

Protect means to keep from getting hurt or lost.



☑ **Safety**

Safety means to be free from danger or harm.



☑ **Identity**

An identity is who a person is.



☑ **Communicate**

Communicate means sharing something with another person or a group of people.

How Do I Communicate?

Communicate is a big word for telling somebody something. There are a lot of ways to do this.



You can talk to them:

- in person
- over the phone
- over the computer



You can send a message by:

- texting on your phone
- emailing a message through your computer
- posting a picture or a message online

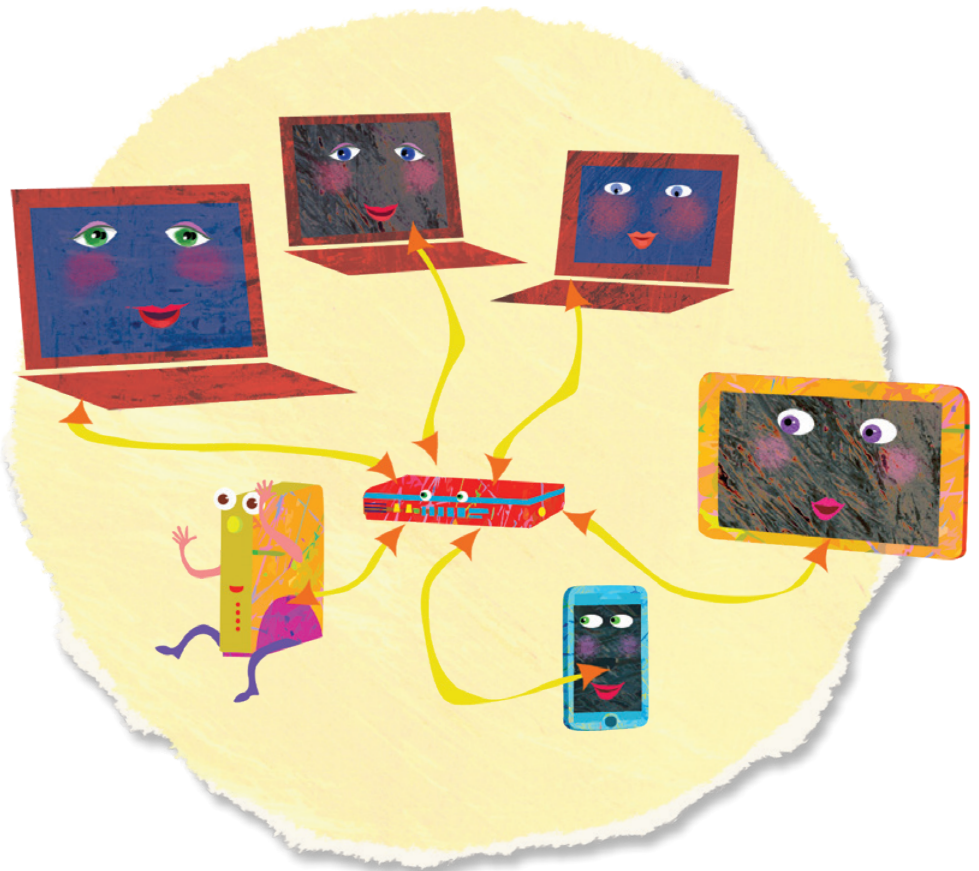
STEP

3 Discover how you are connected, just like computers!

You are connected. You spend time with and talk to your family and friends every day.

Computers are connected too. A group of computers that are all connected is called a network. People can send messages to other people over networks.

Find out more about how computers connect people all around the world!



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

- Telling my family and friends what I learned about how computer parts work together.
 - Showing my family and friends how we're connected in person and through computers.
 - Sharing what I learned about safety and protection with my friends or class at school.
-

I'm inspired to:



Badge 2:

Cybersecurity Safeguards

You can chat with family, shop, play games, and learn about things that interest you—all through your computer!

It may seem as if the online world isn't real because it's on a screen. But it is real. You need to protect yourself online the same way you do in real life.

Find out how in this badge!

Steps

1. Discover what makes you different from others
2. Find out what information is private
3. Discover who is in your trust circle

Purpose

When I have earned this badge, I will know what privacy is and how to protect my identity.

STEP

1 Discover what makes you different from others

My identity is who I am. It's my name and my age. It's also my favorite ice cream flavor, my favorite book, and what I like to do in the summer. These are the things that make me *me*!

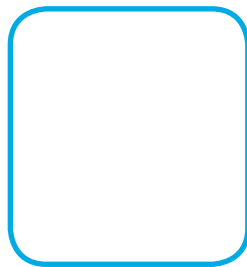


WHO AM I?

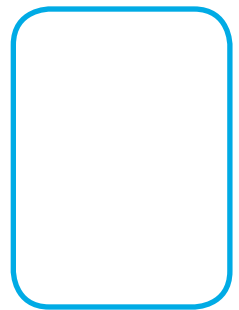
Nobody is quite like you. What are some things about you that make you *you*? Circle the images that help describe who you are.

If you don't see it, draw it!

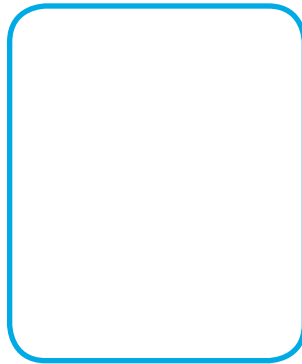
My favorite color is:



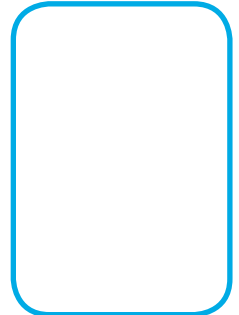
My favorite thing to do in the summer is:



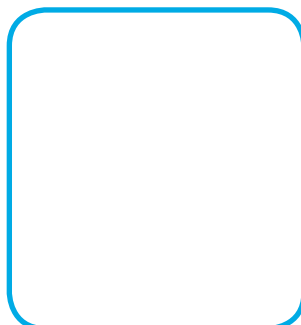
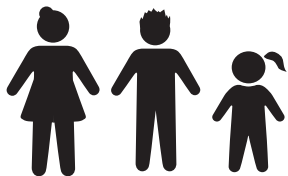
My favorite animal is:



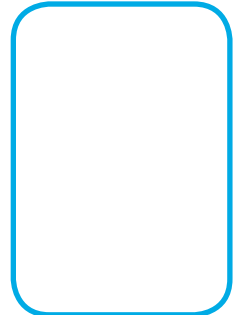
The color of my eyes is:



There are _____ people in my family.



The color of my hair is:



STEP

2 Find out what information is private

Your identity describes you and only you.

Some information can be shared with anyone. If a stranger knows your favorite video game or song, you can still stay safe in real life and online. But some information is private. Private information describes you too, but it shouldn't be shared with everybody. Your name, your address, and your phone number are all private information.

Private Me

Everyone has some information about them that's private. Here is information you wouldn't share with a stranger in real life or online:

- Your name
- Your birthday
- Where you live
- Your phone number
- Where you go to school
- Your family's names

Too Much Information

When you share private information, strangers can use it to figure out who you are, where you live, or what your name is. Here are examples of information you might want to share. A green check mark means it's safe to share. A red x means it's not.

My favorite shoes are rubber boots! ✓

Scoopy Ice Cream is right next door to my house! X

I had a dream about butterflies last night. ✓

I have the best 1st grade teacher at Lakeside Elementary School—Mrs. Welch. X

I love science experiments. ✓

We're going camping at Big Pines tomorrow! X

I like ice cream. ✓

Cats are funny. ✓

I live in the only pink house on Sunset Avenue. X



STEP

3 Discover who is in your trust circle

When you trust someone, you believe that they want to help you and keep you safe. When you trust someone, you know it's OK to share private information with them.

You trust people you know very well, like your parents. But what about people you don't know well—or don't know at all?

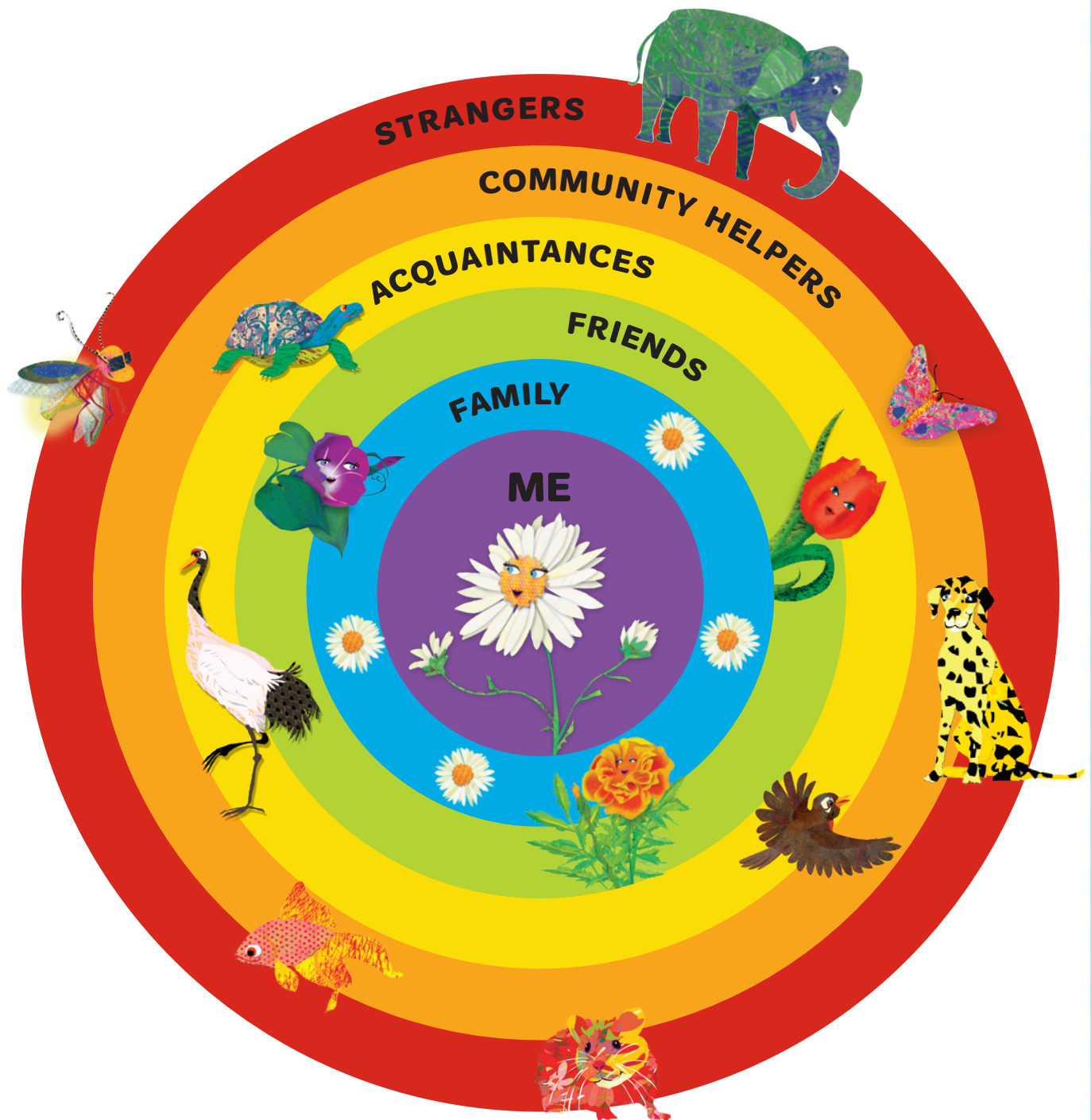
In real life, would you walk up to a stranger and start talking if you were alone? Probably not!

But if you're lost and see a police officer, you might ask her for help.

When you're online, you have to be careful the same way you are in real life. You have to be careful with the people you don't know.



Circle of Trust



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

- Telling my friends and family what I learned about information that's OK to share and private information that needs to stay private.
- Showing my trust circle to my friends and their parents and helping them make their own.
- Sharing what I learned about identity with my friends and family.

I'm inspired to:



Badge 3:

Cybersecurity Investigator

Do you love solving puzzles or searching for clues? In this badge, you'll get to do just that! Cybersecurity is a big word that means computer safety. Investigator is a big word that means someone who solves mysteries! You can use computers to search for clues and solve puzzles too. Let's find out how!

Steps

1. Find out how to search for an answer
2. Use clues to figure out who someone is
3. Test your powers of observation

Purpose

When I've earned this badge, I will know how to use my powers of observation to investigate.



STEP

1 Find out how to search for an answer

When you want to learn something new, you have to ask the right questions. You also have to look in the right places to find clues.

If you want to find out what birds eat, you might read a book about birds. You might look at birds in your backyard. You might watch a video about birds.

You wouldn't read a book about stars or look at pictures of turtles or watch videos about dancing!

To become a cybersecurity investigator, you need to learn how to find answers. The first step to finding answers is learning to ask the right questions.

STEP

2 Use clues to figure out who someone is

What is a clue? It's a piece of information that helps solve a mystery.

What is an identity? It's who a person is. Your name and date of birth are part of your identity. Your identity is made up of information that makes you different from other people.

Cybersecurity investigators use clues to figure out who people are. Test your investigator skills on page 20.

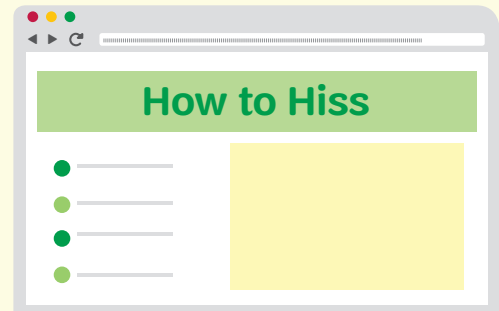
WHICH WEBSITE?

Someone gave you a picture of an animal. You want to learn more about it.
Which website would you use? Match each animal with the website
that will help you learn about it.

1



A



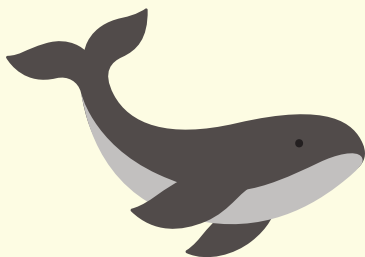
2



B



3



C



4



D



Answer on page 23

BE A CYBER DETECTIVE

Cyber detectives use their powers of observation to spot problems.
Can you use your powers of observation to spot what has changed in
each of the pictures on the next page?



1



2



3



4



Answer on page 23

STEP

3 Test your powers of observation

When you observe something, you notice things around you. You use your eyes to see. You use your ears to hear, your nose to smell, and your fingertips to feel.

Sit for one minute and observe what's around you. What did you notice? Tell a friend or family member.

I see _____

I hear _____

I feel _____

I smell _____

What kinds of things should you notice to do the following things safely?

- ▶ Cross the street
- ▶ Taste hot soup
- ▶ Play on a computer or phone

Seeing



Hearing



Feeling



Smelling



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

- Sharing what I know about being an investigator with my friends and family.
- Showing my friends and family how I look for clues, ask questions, and use my senses to solve mysteries.
- Telling my friends and family what I learned about the ways computers can help us solve puzzles and mysteries.

I'm inspired to:



Made possible by a generous grant from Palo Alto Networks

©2018 Girl Scouts of the United States of America.

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or by any other electronic or mechanical methods now known or hereinafter invented, without the prior written permission of Girl Scouts of the United States of America, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law. For permissions requests, write to Girl Scouts of the United States of America at the address below or visit the www.girlscouts.org website to access permission request forms.

Links to third-party websites are provided for convenience only. Girl Scouts of the USA (GSUSA) does not endorse nor support the content of third-party links and is not responsible for the content or accuracy, availability, or privacy/security practices of other websites, and/or services or goods that may be linked to or advertised on such third-party websites. By clicking on a third-party link, you will leave the current GSUSA site whereby policies of such third-party link may differ from those of GSUSA.

First published in 2018 by Girl Scouts of the USA
420 Fifth Avenue, New York, NY 10018-2798
www.girlscouts.org

Printed in the United States

Stock images by: Adobe Stock

Special thanks to our STEM content partner, the Cyber Innovation Center

UPC 64165



7 31955 64165 8