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the leading school for  
teaching applied technology  
to children and teens.



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# Tech ROOTS



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**Tech Roots KG3B**

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**جميع الحقوق محفوظة** لا يجوز إعادة إنتاج أو نشر أي جزء من هذا المنشور أو تخزينه بأي شكل أو بأي وسيلة إلكترونية أو ميكانيكية أو عن طريق التصوير الضوئي أو التسجيل أو بأي طريقة أخرى، دون الحصول على إذن خطي مسبق من الناشر.



# Eduverse Online Support

Some parts of your lessons are online in our learning platform. They are usually at the beginning and end of each lesson or unit. Whenever you see these icons, log in to your student account to complete the online part.



## Introductory Video (Story)

**Purpose:** Short video that starts the lesson.

**Where you see it:** First page of every lesson.



## Interactive Practice

**Purpose:** Quick practice (MCQ, True/False, matching).

**Where you see it:** Last page of every lesson.



## Practical Content

**Purpose:** Hands-on steps (build/do/code) and needed files.

**Where you see it:** Last page of every lesson.



## Performance Task (Unit Project)

**Purpose:** The final project for the unit.

**Where you see it:** Last page of Unit Introduction.

# Table of Contents

## Table of Contents

### ARTIFICIAL INTELLIGENCE

**Unit 1** SMART HELPERS, LEARNING, AND KIND CHOICES ..... 61-90

Lesson

**1** Smart Helpers Need Good Examples ..... 5

Lesson

**2** Smart Helpers Can Be Wrong ..... 11

Lesson

**3** Kind Words with Smart Helpers ... 17

Lesson

**4** I Am the Boss of the Smart Helper ..... 23

**Unit 2** MY SECRETS AND SAFE SHARING ..... 29-56

Lesson

**1** What Is Secret? ..... 33

# Table of Contents

Lesson

**2**

*Who Can I Tell? ..... 39*

Lesson

**3**

*My Special Code (Password Idea) ..... 45*

Lesson

**4**

*Safe Pictures ..... 51*

## **Unit 3 SMART AND SAFE SCREENS ..... 57-84**

Lesson

**1**

*Safe or Not Safe to Click? ..... 61*

Lesson

**2**

*Strange Pop-Ups ..... 67*

Lesson

**3**

*Kind or Hurtful Messages ..... 73*

Lesson

**4**

*Time to Stop Screens ..... 79*



# *Artificial intelligence*

## *Unit 1*

# *Smart Helpers, Learning, and Kind Choices*



Hello again!

In this unit, we see how smart helpers **learn**.

We see that they can be **wrong**.

We learn to be **kind** and stay the **boss**.

## Learning Goals

- I can say that smart helpers learn from examples.
- I can say they can make mistakes.
- I can say, “I am the boss, not the screen.”



Smart helpers learn from many **good examples**.

They can guess **right** or **wrong**.

People can help fix mistakes.

### Learning Goals

- I can say, “Smart helpers can be wrong.”
- I can use kind words when they make mistakes.



Now we will look at good and kind use.  
Smart helpers must be safe and kind.  
People still choose what to do with them.

### Talk Time

- Point to a picture where the child is kind.
- Point to a picture where the child needs help.
- Say, “I can ask an adult for help.”



Lesson

7

# Smart Helpers Need Good Examples





# Welcome to the mission

Hello, learner!

Today we learn that smart helpers need **good examples**.

Circle all the apples.



# Story Page

Sara shows a smart helper many apple pictures.

Some are red.

Some are green.

Some are slices.

The helper learns that they are all “apple”.

Now it can spot apples in new pictures.



# Sorting: Good Example / Not Apple



Sort: good apple example or not apple.



Good example



Not apple



Mission

2

# More Apple Examples



Draw two more apple pictures for the helper.

## More Apple Examples



# Let's Read **Let's Talk & Check**

Let's talk about good examples for learning.  
Smart helpers learn from what we show them many times.

## Talk Time

- Point to one apple picture on the page or board.
- Say, "Red apples and green apples are both apples."
- Say, "Good examples help the helper learn."

Sort: good apple example or not apple.



Good example



Not apple



Lesson

2

# Smart Helpers Can Be Wrong





# Welcome to the mission

Hello again!

Today we learn: **smart helpers can be wrong.**

Circle the 'oops' face.



# Story Page

Omar shows the helper an apple.

The helper says “Apple”.

He shows a banana.

The helper still says “Apple”.

Omar says, “Oops, that is a banana.”

He feels calm and helps the helper learn again.



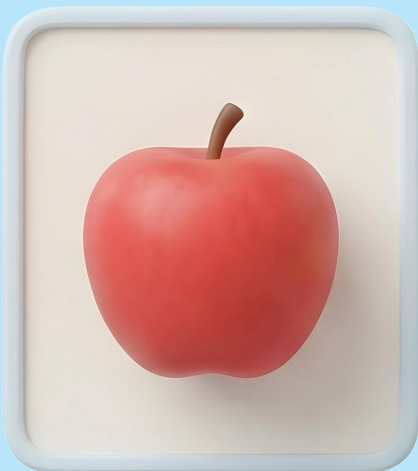
Mission

1

# Circle Wrong Guesses



Circle the pictures where the helper guessed wrong.



Mission

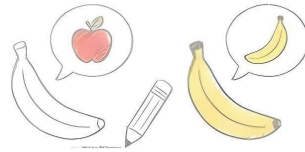
2

# Fix the Mistake



Draw a wrong guess and then the right one.

Wrong



Right



# Let's Read **Let's Talk & Check**

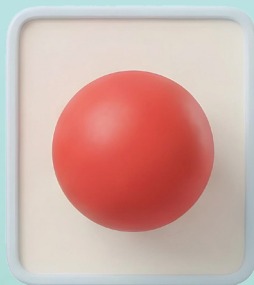
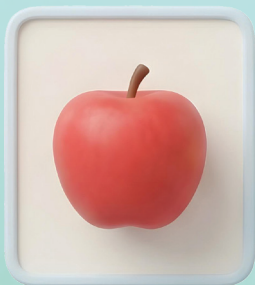
Let's talk about mistakes.

Smart helpers can guess wrong, and that is okay.

## Talk Time

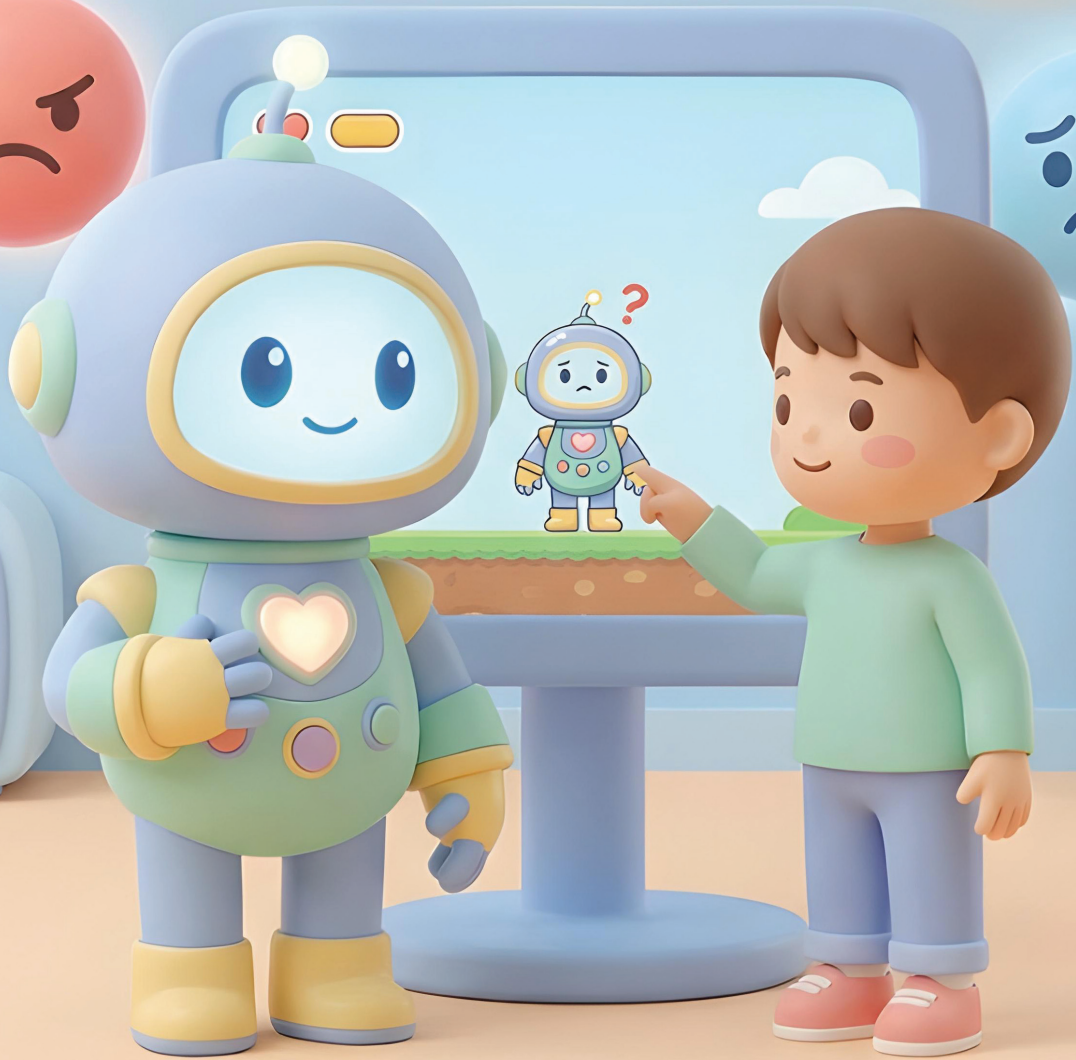
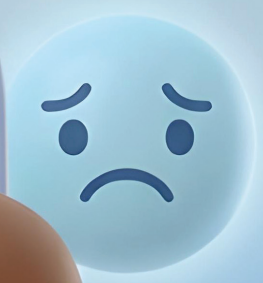
- Make a small “oops” face and then smile.
- Say, “I can help fix the mistake.”
- Point to an adult in the room who can help too.

Circle the pictures where the helper guessed wrong.



# Kind Words with Smart Helpers

Lesson 3



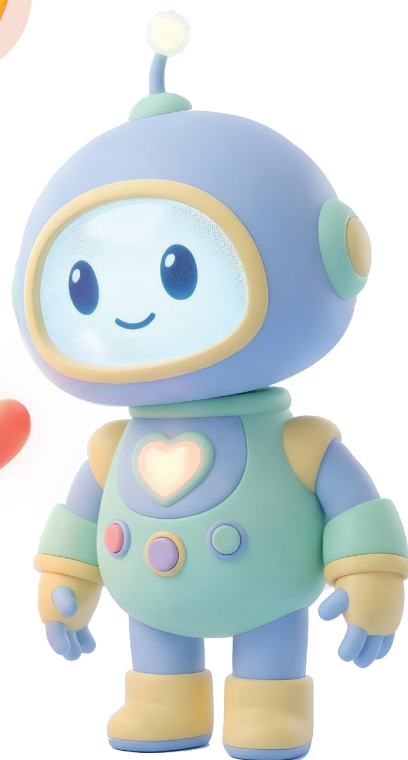


## Welcome to the mission

Hello, kind friend!

Today we learn to use **kind words** with smart helpers and people.

**Circle the kind face.**



# Story Page

Sara's helper makes a mistake in her game.  
She feels upset.  
She wants to shout at the screen.



Then she remembers, "It is only a helper."  
She takes a breath and talks kindly.  
She asks her mother to help fix the mistake.



Mission

1

# Sorting: Kind / Not Kind



Sort: kind or not kind.



Not Kind



Kind



Mission

2

# Kind with Screens



Draw yourself being kind with a screen.

## Kind with Screens



# Let's Read **Let's Talk & Check**

Let's talk about kind words on screens.  
Kind words help people feel safe and happy.

## Talk Time

- Make a happy face and a calm face.
- Say one kind word you can send to a friend.
- Say, "I stay calm even when there is a mistake."

Sort: kind or not kind.



Not Kind



Kind



Lesson  
**4**

# I Am the Boss of the Smart Helper





# Welcome to the mission

Hello, boss!

Today we learn, "I am the boss of the smart helper."

Circle who is the boss.



# Story Page

Omar uses a smart helper every day. Sometimes it shows many videos. He feels tired and wants to watch more.



He remembers, “I am the boss, not the screen.” He presses stop and goes to play. He feels proud of his choice.



Mission

1

# Sorting: Boss / Not Boss



Sort: boss choice or not boss choice.



Not boss



Boss



Mission

2

Me as Boss



Draw yourself as the boss of a smart helper.

# I Am the Boss



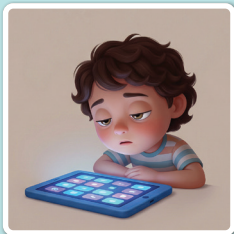
# Let's Read **Let's Talk & Check**

Let's talk about being the boss of smart helpers.  
We can start, stop, and ask an adult for help.

## Talk Time

- Show your hand like a stop sign.
- Say, "I can stop my screen when I need to."
- Name one adult who helps you with screens.

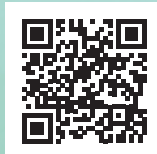
Sort: boss choice or not boss choice.



**Not boss**



**Boss**



# Cybersecurity

## Unit 2

### My Secrets and Safe Sharing



# My Secrets and Safe Sharing

Hello, friend!

In this unit,

★ we learn about **secret info**.

Some things are **only for you and your family**.



We learn who we can tell and who we do not tell.



## Objective(s)

- 🎯 I can say what “secret info” means.
- 🎯 I can point to secret info on a page.
- 🎯 I can say who I can tell my secrets to.
- 🎯 I can say “No, I do not share this.”

Some things are not secret.

- ★ We can share them with many people.
- ★ We can share a picture of a **tree**.
- ★ We can share a picture of a **flower**.
- ★ We learn the difference between **secret** and **not secret**.



**Secret**

**Not  
secret**



**Objective(s)**

- 🎯 I can point to “secret” and “not secret” pictures.
- 🎯 I can say, “This is safe to share.”
- 🎯 I can say, “This is only for family.”

Now we will look at some pictures.

- ★ Some pictures show **secret info**.
  - ★ Some pictures do **not** show secret info.
- We will talk about them together.**



Talk Time (for teacher to read)

- ★ Point to a picture that is **secret**.
- ★ Point to a picture that is **not secret**.
- ★ Say, “I only share this with family.”



Lesson  
7

# What Is Secret?





# Welcome to the mission



Hello, Cyber Hero!

Today we learn, “What is secret?”

Some things are okay to **share**. Some things we **keep safe**.

**Circle** the secret things.

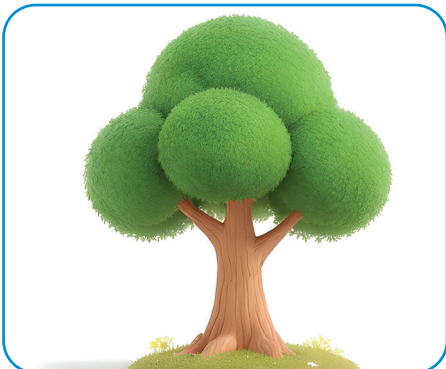
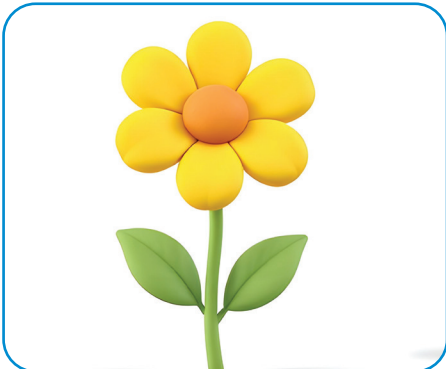


# Story Page

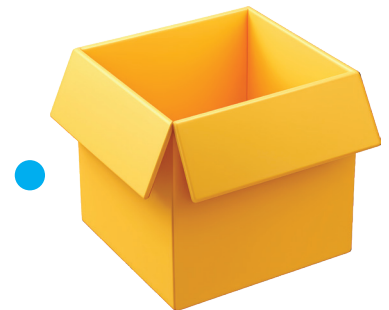
Omar and Sara look at pictures.  
They see a tree, a flower, and Omar's face.  
Omar says, "I can show the tree to everyone."  
Sara says, "Your face is special and secret."  
Omar feels a little confused.  
Their mother says, "Some things stay in the family."  
Omar nods and feels safe.



Sort the pictures: secret or not secret.

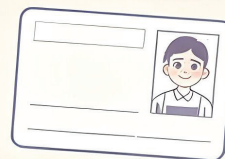


Secret



Not

My Secret Thing



Draw one secret thing you keep safe.



## Let's Talk & Check

## Let's Talk About secret info

### Talk Time:



- ★ Point to one thing in the room that is secret.
- ★ Point to one thing that is not secret.
- ★ Say, "I keep this secret safe."



Circle the secret pictures.



Lesson  
**2**

# Who Can I Tell?





# Welcome to the mission



Hello, Cyber Hero!

Today we learn, “Who can I tell?”

Not everyone is safe for secrets.

**Circle** who you can tell secrets to.



## Story Page

Sara gets a new card with her name.

A stranger at the park asks, “What is your full name?”

Sara feels unsure inside.



She remembers, “I tell secrets only to my family or my teacher.”

She looks at her mother and stays quiet.

Her mother smiles and says, “You did the right thing.”

# Matching (Safe Adult / Not Safe)

Match the child to safe adults.



# My Safe Adult



Draw the adult you tell secrets to.



## Let's Talk & Check



### Talk Time:

## Let's Talk About safe adults and strangers

- ★ Point to someone in your life who is a safe adult.
- ★ Say, "I can tell my secret info to this person."
- ★ Point to a stranger picture and say, "No, I do not tell."



### Match the child to a safe adult



Lesson

3

# My Special Code (Password Idea)





# Welcome to the mission



Hello, Cyber Hero!

Today we learn about a **special code**  
A **special code** keeps things **safe**.

**Match** the box to its lock.



# Story Page

Omar has a toy box with a lock.  
He uses a secret shape code: circle, star, triangle.  
He tells the code only to his father.



His friend asks, “What is your code?”  
Omar smiles and says, “It is my secret.”  
He feels proud he kept his special code safe.

Sort: keep secret or can share.



Keep secret



Can share





# My Shape Code

Draw a secret shape code for a box.



## Let's Talk & Check

Let's Talk About special codes.



### Talk Time:

- ★ Point to something that needs a lock at home.
- ★ Say, "I do not tell my code to friends."
- ★ Pretend to close a lock with your hands.



Lesson  
4

# Safe Pictures





# Welcome to the mission



Hello, Cyber Hero!

Today we learn about **safe pictures**

**Some pictures are okay to share.** Some should stay in the family.

**Circle** pictures that are okay for everyone to see.



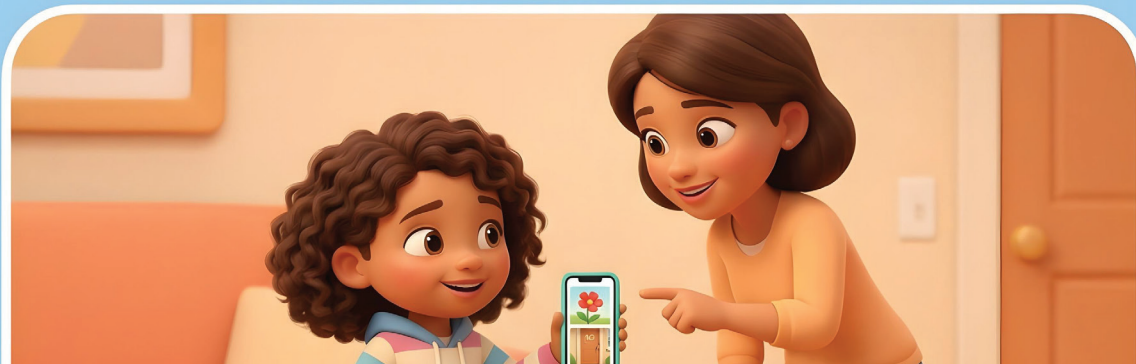
# Story Page



Sara wants to send a picture to her cousin. She takes a picture of a flower in the garden.

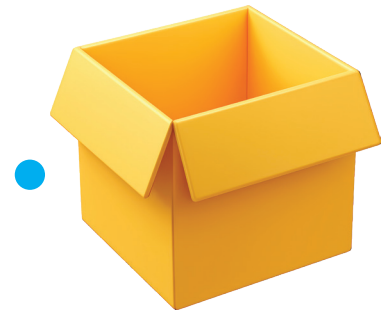


She also takes a picture of her house door.



Her mother says, “The flower is safe to share.” “The house door is secret. It shows where we live.” Sara chooses the flower and feels safe.

Sort the pictures.



Safe for  
many



Only  
family

# Safe to Share



Draw a picture that is safe to share.



## Let's Read

# Let's Talk About Places



### Talk Time:

- ★ Point to a picture that is safe for many people.
- ★ Point to a picture that is only for family.
- ★ Say, "I choose safe pictures to share."



Circle the pictures that are safe for many people.



# Cybersecurity

## Unit 3

### SMART AND SAFE SCREENS



# Smart and Safe Screens

Hello, Cyber Hero!

In this unit,

★ we learn about screens.

We will see **safe screens** and “**not sure**” screens.



We will learn **when to stop and ask an adult.**



## Objective(s)

- 🎯 I can say “safe” or “not sure” for a screen.
- 🎯 I can say, “I ask an adult before I click.”
- 🎯 I can name one good screen rule.

Some screens are for learning and good play.

- ★ Some screens try to make us click fast.
- ★ We do not need to click fast.
- ★ We can stop, close, and call an adult.



### Objective(s)



- 🎯 I can say, "I do not click strange things."
- 🎯 I can say, "I can close and ask."

Now we will look at screens.

- ★ Some screens show safe things to learn.
- ★ Some screens look strange or “not sure”.

**We can say, “Safe or not sure?” with an adult.**



**Talk Time (for teacher to read)**

- ★ Point to a screen that looks safe.
- ★ Point to a screen that looks “not sure”.
- ★ Say, “I ask an adult before I click.”

Lesson  
7

# Safe or Not Safe to Click?





# Welcome to the mission

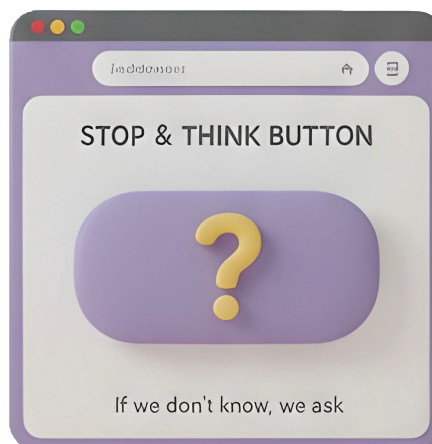
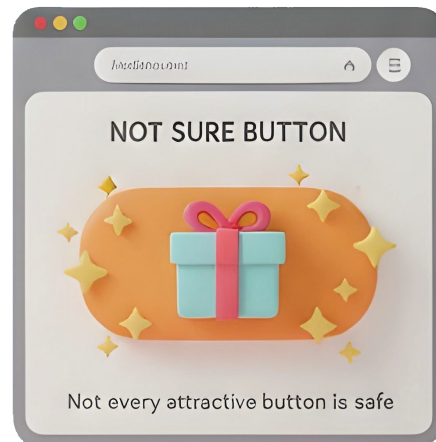
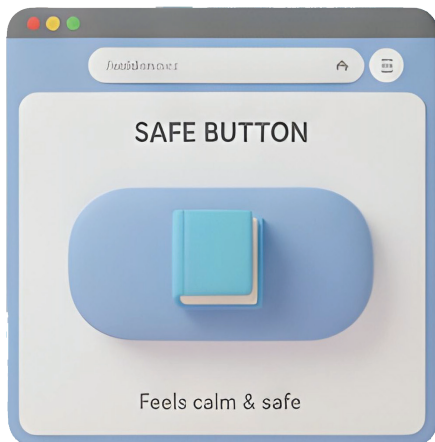


Hello, Cyber Hero!

Today we learn, “**Safe** or **not safe** to click?”

We look at buttons on screens.

**Circle** the safe button.



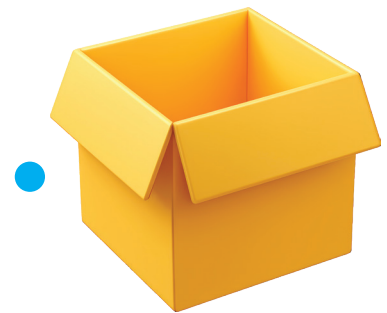
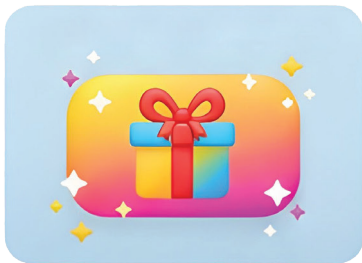
## Story Page

Omar is using a tablet.  
He sees a button with a book.  
He also sees a button with a big gift.  
The gift button has many stars and flashes.

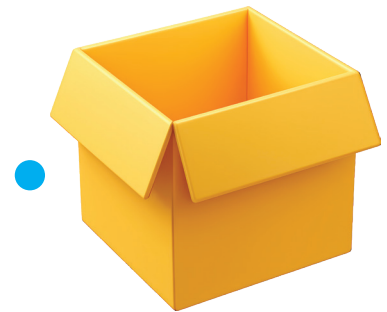


Omar feels “not sure” inside.  
He decides to not click and calls his father.  
His father says, “Good choice to ask first.”

Sort the pictures: secret or not secret.



Safe



Not  
sure

# My Safe Button

Draw one safe button on a screen.



## Let's Talk & Check

# Let's Talk About safe and "not sure" buttons

### Talk Time:



- ✦ Point to a button that feels safe.
- ✦ Point to a button that feels "not sure".
- ✦ Say, "I ask an adult before I click."

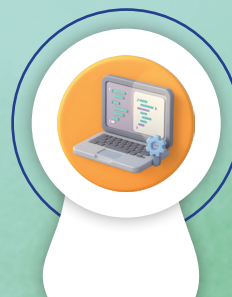


Sort the buttons: safe or not sure?



**Safe**

**Not sure**



Lesson  
**2**

# Strange Pop-Ups





## Welcome to the mission

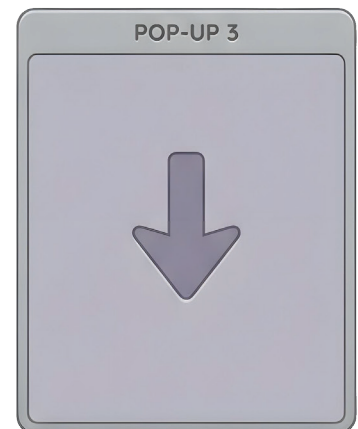
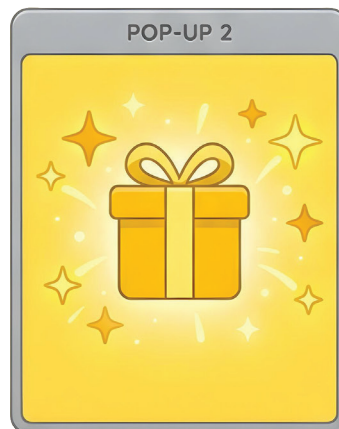


Hello, Cyber Hero!

Today we learn, about **strange pop-ups.**

Pop-ups are boxes that jump onto the screen.

**Circle** the pop-ups that look strange.



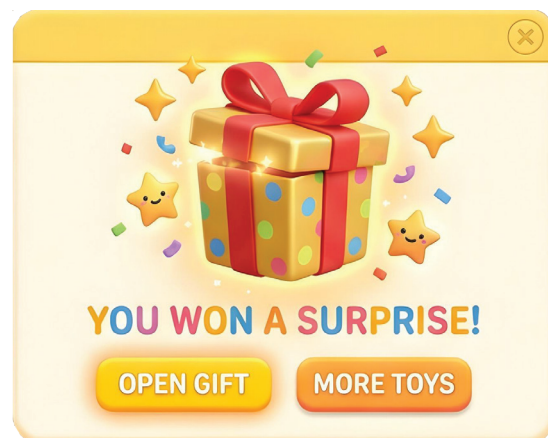
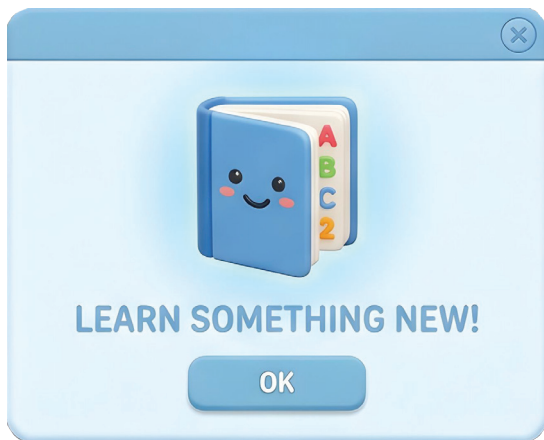
# Story Page

Sara is watching a learning video.  
Suddenly, a big pop-up jumps on the screen.  
It shows a giant gift and many flashing stars.



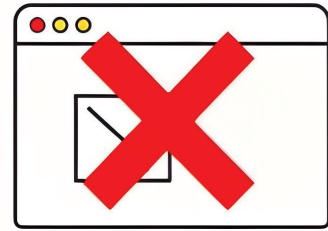
Sara feels “not sure” and a bit worried.  
She does not click it.  
She presses the close button and calls her mother.

Circle the pop-ups you should close.



# Close the Pop-Up

Draw a pop-up and make a big X on it.



## Let's Talk & Check

## Let's Talk About strange pop-ups.

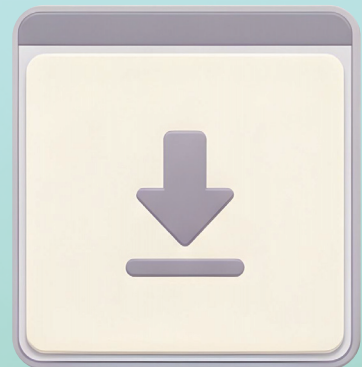


### Talk Time:

- ★ Pretend to press a big X with your finger.
- ★ Say, "I close strange pop-ups."
- ★ Say, "I show strange screens to my adult."



Circle the pop-ups you should close.



Lesson **3**

# Kind or Hurtful Messages





# Welcome to the mission



Hello, Cyber Hero!

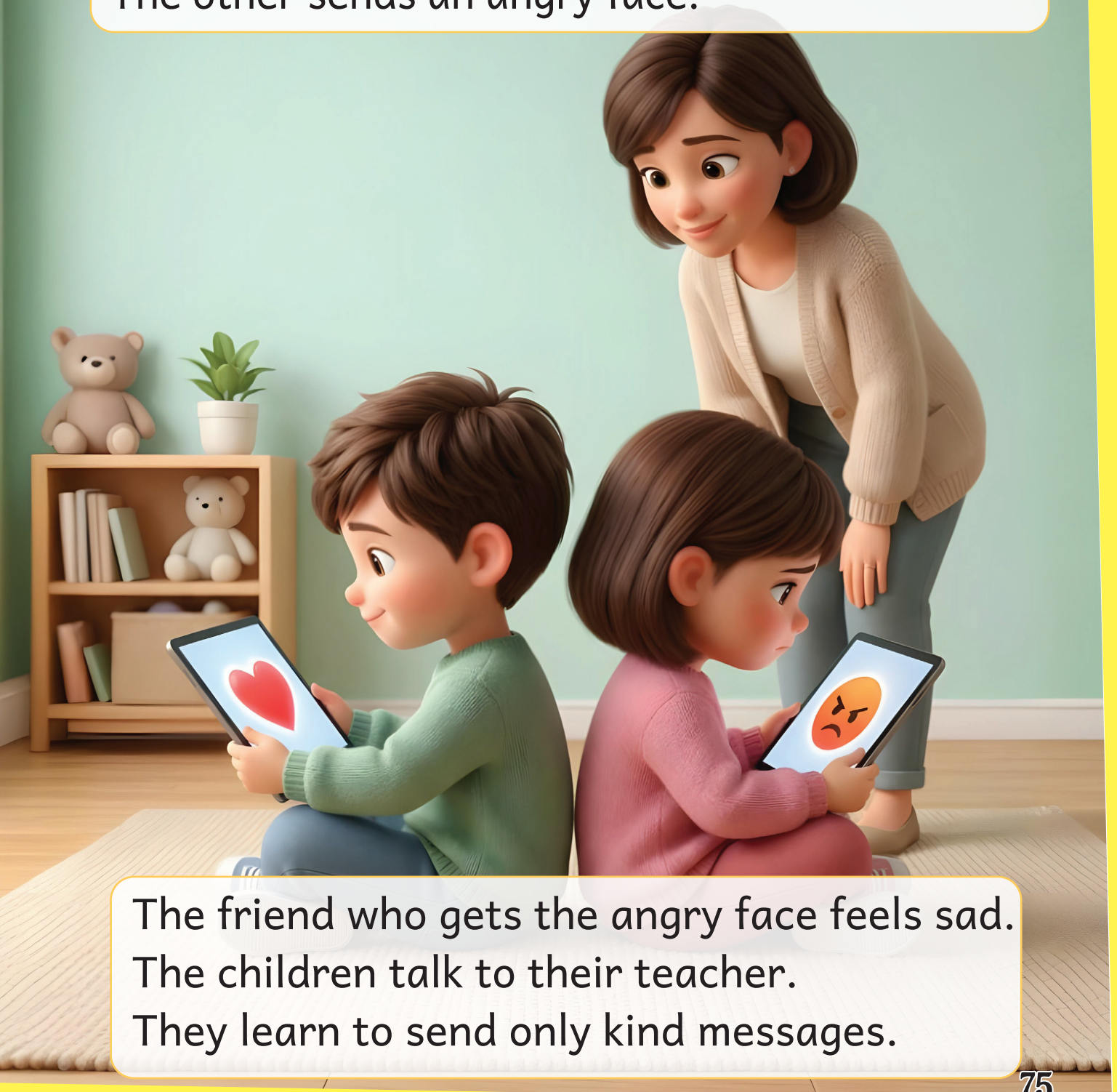
Today we learn about **kind** and **hurtful** messages on screens.

**Circle** the kind face.



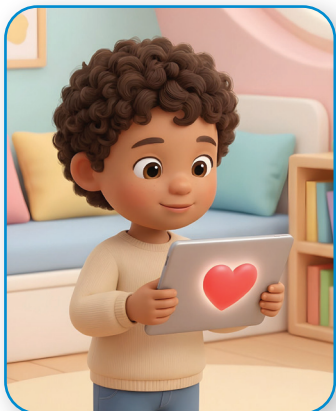
## Story Page

Two children are sending messages on a tablet.  
One child sends a heart and a smile.  
The other sends an angry face.



The friend who gets the angry face feels sad.  
The children talk to their teacher.  
They learn to send only kind messages.

Sort the messages: kind or hurtful.



Kind



Hurtful

# Kind Message



Draw a kind message on a screen.



## Let's Talk & Check

Let's Talk About kind screen messages.

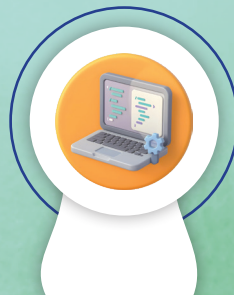


### Talk Time:

- ★ Make a happy face and a calm face.
- ★ Say one kind word you can send to a friend.
- ★ Say, "I stay calm even when there is a mistake."



Circle the kind.



Lesson  
**4**

# Time to Stop Screens





# Welcome to the mission

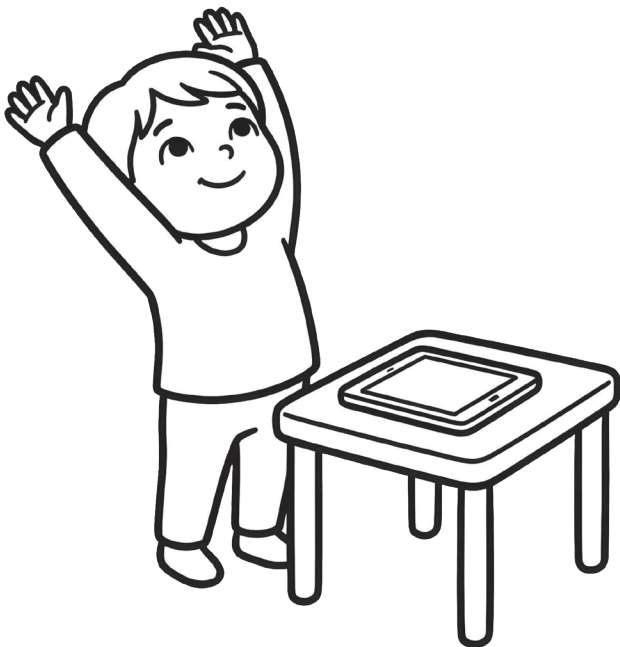


Hello, Cyber Hero!

Today we learn when to **stop screens.**

Our **eyes** and **body** need rest.

**Color** the good screen habit green.



# Story Page



Omar loves his game.  
He plays for a long  
time.  
His eyes feel tired  
and his head hurts.

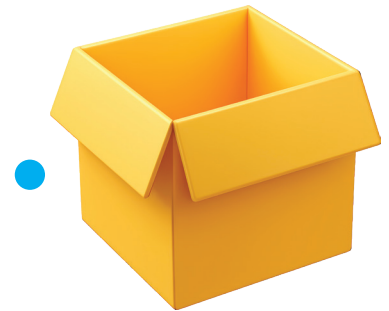
His mother says, "Time to stop now."



Omar closes the  
game and takes  
a break.  
After rest, he  
feels much  
better.



Sort: good screen habit or not good.



Good



Not Good

# After Screens I...



Draw one thing you do after screen time.



## Let's Read

# Let's Talk About stopping screens



### Talk Time:

- ★ Show with your hand how to press stop.
- ★ Say, "I can stop when my adult says stop."
- ★ Name one thing you do after screen time.



Sort: good screen habit or not good.



Good

Not Good

