

### LESSON 0: CREATE A BOMBERBOT

#### CURRICULUM STANDARDS

- Recognize common uses of information technology
- Use technology safely and respectfully, keeping personal information private
- Identify where to go for help and support when faced with issues on the Internet

#### OVERVIEW

You may have remembered a society where letters were sent by post, phones only had a number pad, and television was still the most important screen in the home. Children growing up in the 21st century are born into a world surrounded by digital devices and technology that is driven by software, the computer program running on the device, rather than hardware (the machine itself).

It is important for children to recognize that modern information and communication technology (ICT) has allowed humans to communicate and work in more advanced ways than ever before. From shopping to research to making friends, the Internet that we experienced in the past is a lot different than the Internet we have today with videos, games, social networks, and more.

However, the Internet also has its limitations and does not necessarily need to be used in every aspect of life. Just like a computer could never replace YOU as a teacher, the Internet can never replace real human interaction.

In this lesson, we will introduce your students to how they can use a **website** to learn about technology itself, discuss ways that technology has affected our lives, and help your students understand safety on the **Internet**.

In today's assignment, your students will be able to create their own Bomberbot account with a unique **username** and **password** and explain why it is important to keep their account details secure. Your students will then be able to log into their Bomberbot account from wherever they are - in school or at home.

Once students have logged into Bomberbot for the first time, you can help them update their account profile page with their real names so you can better keep track of how your students learn on Bomberbot.

If your students are older or already have familiarity with Internet safety and creating and managing accounts, you may choose to skip this lesson. However, we recommend this introductory lesson to share your experience with technology and how the Internet works.

**Note:** Before you start this lesson, make sure you already have a Bomberbot Teacher account (sign up at [www.bomberbot.com](http://www.bomberbot.com)) and have created a class with a Class Access Code for your students to connect.

### LESSON PLAN

*(Estimated Time: 30-45 minutes)*

#### GOALS

By the end of this lesson, students will be able to:

- Define the Internet and describe the role of information technology on society
- Understand Internet safety and keeping personal information private
- Understand the difference between good and bad passwords
- Choose a username for their Bomberbot account and share their account details with their parents

#### KEY CONCEPTS

- **Internet:** A network of computers connected to each other that can communicate and share information
- **Website:** A location on the Internet identified with a web address (ex: [www.bomberbot.com](http://www.bomberbot.com))
- **Account:** Username and password combination that allows a user to access a specific part of a website
- **Username:** A unique nickname that identifies a user of a website from other users
- **Password:** A secret code of numbers and letters that allows users to gain access to a specific location (ex: a house or a website)

#### MATERIALS & PREP

- Lesson 0: Create a Bomberbot Presentation
- Parent Letter

### TEACH DIGITAL LITERACY

*(Estimated Time: 15-20 minutes)*

#### [SLIDE 1] LESSON 0: CREATE A BOMBERBOT

**Do:** Explain that today you are starting a new program to learn technology with Bomberbot and that the first lesson is about the way we use the Internet.

#### [SLIDE 2] WAYS WE COMMUNICATE

**Do:** Discuss the impact of information technology on our society.

**Ask:** What are some ways we communicate with each other or get information?

**Say (suggested):** Technology in the form of computers, cell phones, tablets, and more, has changed the way people communicate, making it easier and faster to send and receive information.

**Do:** You may want to share a personal story about how you communicated with your friends or family when you were younger, before the Internet was used on a daily basis. Discuss how things were different and how they have changed. You may want to discuss pros and cons.

**Ask:** What are some ways information technology helps us? What are some things we don't need the information technology for?

### [SLIDE 3] WHAT IS THE INTERNET? (WE ARE ALL CONNECTED!)

**Say (suggested):** How has information been sent and received for many years? Postal mail was connected by a series of highways or railroads. Cables connected phone and telephone lines. Internet used to be hooked up by Ethernet cables.

Today, these connections still exist, but with the rise of wireless Internet (or "WiFi") we may not be able to see all these connections, but they are there, helping to deliver "packets" of information from one destination on the Internet to the next. You can think of the Internet like a giant spider web where all computers in the world are connected to one another by invisible, spider-like threads.

### [SLIDE 4] WHAT IS A WEBSITE?

**Ask:** What are some websites we like to visit? How do we get to this website?

**Say:** When we go to a website, we are going to a specific place, or "site" on the Internet. Today, we are going to use a website called Bomberbot which has a game that will help us learn.

**Say:** Just like every house in a neighborhood has an address, every site on the web has an address too. But instead of going to a house address like 1 Bomberbot Lane, we go to a website address, like [www.bomberbot.com](http://www.bomberbot.com).

*Did you know? Websites can be made of numbers instead of letters! In the beginning of the Internet, many websites were just numbers like 54.172.96.178:3001. Over time, we learned to give these numbered addresses ("IP addresses") names so it was easier to remember!*

**Ask:** What are some of your favorite websites? Has a website ever helped you learn something?

*Sample responses: We watch a video about biology on a science website, we read news articles online, etc.*

**Do:** If you have a smartboard, fill in the blank with suggestions of child-safe websites or websites you have used a class.

### [SLIDE 5] INTERNET SAFETY

**Say:** When we go onto the Internet, sometimes we have to be careful, because everything is open and public for anyone to see or use on the Internet - unless it is protected or kept safe. Imagine that you can knock on anyone's door and go inside the house. That is what any website on the Internet is like - unless it is a **password** protected website.

If you are also visiting someone's house, it is also a good idea to let the person living in the house know who you are. If you knock on the door, the people inside might look through the door or window to see

who you are. If they know you, they know it is safe to let you in. But a website cannot see you, so how does the website recognize you?

### [SLIDE 6] WHAT IS AN ACCOUNT?

**Say:** That's why we need to create an account, a special key that lets the owner of the house (the website) know who we are. This also allows us to come back to the house again quickly and easily. On Bomberbot, this is called your **Bomberbot account**. Your Bomberbot account allows you to create your very own Bomberbot inside of the website. You can access your Bomberbot in a place on the website that no one else but YOU can enter.

It is like your account lets you open up a special room (the platform) in the house (the website). This room (the platform) will look different than someone else's room (platform), because of what you do inside of the room (the platform), such as the games you played, or where you decide to put things.

Anyone can go to a website but you need your own account to access your own part of the website. Anyone else that wants their own "room" with their own Bomberbot needs their own account, or their own special key. YOUR special key will not let you into their room, and their special key will not let them into YOUR room!

Your account has two different parts: your **username** and your **password**. Together, these prevent other people from getting into your room.

### [SLIDE 7] CHOOSE A GOOD USERNAME

**Say:** You should never tell anyone your real name on the Internet, because you do not always know who the "owner" of the website is or what they are going to do with your information.

That's why we need to create a different kind of name called a **username**. A username is like a nickname on the Internet. Superheroes, for example, never give away their real identity. They have "code names" or "usernames" just like you!

**Usernames** should be easy for you to remember but also special. No two people can have the same username on the same website.

**Do:** Discuss examples of good and bad usernames and what makes them good or bad. Have students come up with examples of usernames and have the class judge whether or not they are unique, do not give away personal information, and are appropriate.

- Suggested examples of good usernames: NinjaTurtle17, Princess138, RocknRollKid (These are good user names because they are unique and do not give away personal information, such as real name or contact information).

- Suggested examples of bad usernames: Joris, YouSuck, 14AmstelRd, Me (These are bad user names because they are not unique and/or give away personal information, such as real name or contact information).

### [SLIDE 8] CHOOSING A SECURE PASSWORD

**Say (suggested):** Having just a username is not a good enough key to open the special room in the website. Otherwise, anyone who has your username can just enter. You also need a password. A password is a secret code made up of letters and/or numbers that only you know for your account.

**Passwords** usually need to have a certain number of characters for them to be good, strong passwords. In Bomberbot, your password needs to be at least 6 characters. Uppercase and lowercase matters!

**Do:** Discuss good and bad examples of passwords. Create practice passwords as a class and discuss whether or not they are secure.

- Suggested example of bad passwords: password, bomberbot, hello
  - Easy to guess
  - Less than 6 characters
- Suggested examples of good passwords: horsewindowseven, 16071928
  - Easy to remember
  - Can be random words or numbers strung together
  - At least 6 characters long

### MISSION 0: CREATE A BOMBERBOT

*(Estimated Time: 10 minutes)*

### [SLIDE 9 & 10] SIGN UP ON BOMBERBOT.COM

**Do:** Children should go to [www.bomberbot.com](http://www.bomberbot.com) and create a Bomberbot account by clicking “Sign Up” and choosing “I’m a Kid.” If there are not enough devices for all students, have students take turns signing up.

**Say:** To join your classmates on Bomberbot, we need a Class Access Code, which is [CODE]. This allows you to see and play, for example, the levels of other students in your class - but not the levels of other students in other classes or even in other schools.

**Do:** Give your students the Class Access Code. The Class Access Code is the special code that allows students to connect to the Class (vs. a Class in another school). Once students sign up, you should be able to see them in your Student List in “My Classes.”

*Teacher Note: If you have already created accounts for students in “My Classes”, you can explain that you are the “owner” of this house and you’ve already created an account for your students and*

*have already given them access to their own “room” and allowed them into the “Class.” Provide them with their account details (username and password).*

### [SLIDE 11] KEEPING YOUR ACCOUNT DETAILS SAFE

**Do:** Give students their “Parent Letter” where students should write down their username and password and share it with their parents when they go home.

**Say:** If you have an important key for your room in your house, you don’t want to lose it, and you don’t want to give it to strangers. You want to keep it safe! So make sure you write it down in a safe place. The only person who should know your account information is your teacher, parent, or adult that you trust.

**Do:** Have students log in again by clicking “Log In” at [www.bomberbot.com](http://www.bomberbot.com). They should refer to their account details on their Parent Letter if they forget.

**Say:** Great! Now let’s practice logging into Bomberbot to make sure it works. We won’t be starting on Bomberbot today, but we will get set up to make sure everything works.

**Ask (optional):** Why do you think the password field is in blocks? (Suggested answer: To hide anyone from seeing the password around us!)

**Do:** Once students are logged in for the first time, have them update their Account Profile with their real names.

**Say:** The first thing you should do when you start Bomberbot is to update your secret identity on your account profile page. The only person who should know your real identity, including your first and last name, is an adult you trust, such as me, your teacher (and your parents). I need to know this information so I can help you complete Bomberbot Missions. No one else in your class or even outside of your school will know who you are with your username (unless you tell them of course!)

**Do:** Help all students log out of Bomberbot.

**Say:** When you want to leave your room, make sure you click “Log out” so no one else but you can enter your room. This is like locking the door to your room again.

### [SLIDE 12] GETTING HELP

*(Estimated Time: 5 minutes)*

**Say:** Nice work! We all successfully created our own accounts with special usernames and secure passwords. We can now safely go to our own “room” in Bomberbot to learn and play games, and this “room” will be different for every account that is made. We shared our private information only with adults we trust.

**Say:** But sometimes some things can go wrong on the Internet. Sometimes we might see a weird image or someone might have written a comment that’s not so nice. Or maybe the website is just not working. When this happens, there are a couple of things we can do:

- Check that you have Internet connection. Make sure you are connected to the school WiFi or Ethernet?
- Try again! Refresh the website by clicking on the arrow on top of your browser (the box that holds your website), or close the website and open it again. If it still doesn't work, you can also try to turn your computer off and on.
- Ask a teacher or parent, describing exactly what happened. It is important that we explain the problem clearly because adults don't always see the same problem kids do.
- Don't get frustrated! Computers are not as smart as humans are. They don't always know what to do.

**Ask:** What are some things that might go wrong when we try to play Bomberbot?

*(Suggested answer: Website doesn't work, I forgot my password, etc.)*

**Ask:** What should we do when something doesn't work the way we expect it to?

*(Suggested answer: Ask a teacher, describe what happened).*

### HOMEWORK

Have students take their parent letter to a parent or guardian at home. Explain that they made a Bomberbot account and what that means.

Suggested questions for children to discuss with parents:

- What type of accounts do you have online? (Ex: E-mail, Facebook, etc.)
- What is some information we keep safe on the Internet?
- How do we know whether a website is safe or not?
- How do you keep your personal details online private?