



created by inventors. Inventors are like real-life magicians who use their imagination, creativity, and a lot of hard work to turn their ideas into inventions that can do amazing things.

Inventions can be big, like cars and airplanes that take us to faraway places, or small, like the paperclip that keeps your papers together. Some inventions help save lives, like medicines and medical equipment, while others make it easier to talk to friends and family no matter where they are in the world.

Imagine a world without your favorite video games or without the internet to help you with your homework. Pretty hard, right? That's why inventors and their inventions are so important. They dream up and create new things that make our lives better, more fun, and sometimes even change the world.

So, get ready to dive into the fascinating world of inventors and inventions. You'll learn about famous inventors who made history with their creations and discover how you, too, can think like an inventor. Who knows? Maybe one day, you'll invent something that everyone will use!

### **Learning objectives and goals:**

- I should be able to recall who Tim Berners-Lee is and what he invented.
- I should be able to explain how the World Wide Web changed the way people access information and communicate.
- I should be able to differentiate between the internet and the World Wide Web that Tim Berners-Lee created.
- I should be able to discuss why Tim Berners-Lee's invention is important for modern communication.

### **Who is Tim Berners-Lee and what did he create that we use every day?**

Tim Berners-Lee is a very important person in the world of computers and the internet. He is a scientist from England, and he created something amazing that we all use almost every day – the World Wide Web. This might sound a bit complicated, but it's actually something you're probably very familiar with.

Before the World Wide Web was invented, using the internet was much harder and not very user-friendly. It was difficult for people to find information and share it with others. Tim Berners-Lee wanted to make it easier for everyone to use the internet, share information, and communicate with each other. So, in 1989, while he was

working at a place called CERN, which is a big science laboratory in Switzerland, he came up with the idea of the World Wide Web.

What Tim Berners-Lee did was create a system that lets us see web pages on the internet through a browser, like Chrome, Safari, or Firefox. These web pages can contain text, pictures, videos, and links to other pages. The "links" part is really important because it lets us click on a word or picture and quickly go to a new page to learn more about that word or picture. This might seem normal to us now, but it was a revolutionary idea at the time!

The World Wide Web made it super easy for people to put information online and for others to find it. This is why we can now learn about anything we want, watch videos, play games, and talk to our friends online.

One of the coolest things about Tim Berners-Lee is that he decided to make the World Wide Web available to everyone for free. He didn't want to make money from it; he wanted everyone, no matter where they are in the world, to have access to information and the ability to share it. Thanks to him, the internet has grown into the huge, amazing resource it is today, helping people learn, communicate, and share ideas.

So, every time you use the internet to do your homework, chat with a friend, or watch a video, you're using the World Wide Web that Tim Berners-Lee created. He's a true hero in the world of technology, making our lives easier and more connected.

## **How did the creation of the World Wide Web change the way people around the world communicate and access information?**

The creation of the World Wide Web was a big change for everyone around the world. Before the World Wide Web existed, getting information or talking to people who were far away was much harder and took a lot more time. If you wanted to find out something, you might have to go to the library and look through lots of books, or you had to ask someone who knew. Communicating with someone in another country could take days or even weeks if you were sending letters.

Then came the World Wide Web, invented by Tim Berners-Lee. It made everything about finding information and talking to people very different. Imagine having a magic book that could instantly open to any page with the exact information you wanted, or being able to send a message to a friend on the other side of the world and getting a reply just a few seconds later. That's kind of what the World Wide Web started to do for us.

With the World Wide Web, all you need to do is type what you're looking for into a computer or a phone, and you can find information about it right away. It could be something for school, like the history of dinosaurs, or something fun, like how to

make slime at home. You can also watch videos, play games, and read stories from all over the world.

Communicating with people changed a lot too. Now, you can send an email, a message, or even make a video call to someone no matter where they are, and you can do it any time you want. It's like everyone in the world is just next door, instead of being far away.

The World Wide Web also made it easier for people to share their own stories and information with others. Anyone can create a website or a blog about what they love or what they know, and share it with people all over the world. This means we can learn from so many different people, see things from their point of view, and understand each other better.

So, the World Wide Web changed the way we get information and talk to each other by making it faster, easier, and possible to connect with anyone, anywhere. It's like a big web that connects the whole world, and it's made learning and sharing with others a big part of our daily lives.

## **When did Tim Berners-Lee invent the World Wide Web, and how has it evolved since then?**

Tim Berners-Lee invented the World Wide Web in 1989. That might seem like a long time ago, but in the grand scheme of things, it's pretty recent! Back then, computers were already being used, but they couldn't easily share information with each other, especially if they were in different places. Tim Berners-Lee was working at a place called CERN, which is a big science laboratory in Switzerland, and he saw that scientists needed a better way to share their discoveries and data with each other all around the world.

So, he came up with the idea of the World Wide Web. It's like he built a bridge that let computers connect and talk to each other using links. These links could take you from one document to another, no matter where in the world those documents were stored. He also created the first web browser, which is a program we use to look at web pages, and the first web server, which is like a big computer that sends web pages to people's browsers when they want to see them.

Since Tim Berners-Lee invented the World Wide Web, it has changed a lot and grown incredibly. At first, it was mostly used by scientists and researchers. But soon, more and more people started using it for all sorts of things. Here's how it has evolved:

**More Websites:** In the early 1990s, there were only a few websites, but now there are billions! Websites have become more colorful and interactive, meaning you can do things like play games, watch videos, and talk to friends directly on a webpage.

**Better Speed and Accessibility:** The internet has gotten much faster, and you can now access it from almost anywhere in the world. You can use the World Wide Web from computers, tablets, phones, and even some watches!

**Social Media:** Platforms like Facebook, Twitter, and Instagram didn't exist when the World Wide Web was first created. Now, social media sites are some of the most visited places on the web, allowing people to share their lives, thoughts, and pictures with friends and family.

**Online Shopping and Services:** You can now buy almost anything you want online, from books and clothes to groceries. Plus, there are tons of services online, like streaming movies and music, without having to leave your house.

**Learning and Information:** The World Wide Web has become a huge library where you can learn about anything. There are websites for learning new skills, doing homework, and even taking courses on things you're interested in.

From its simple beginnings as a way for scientists to share information, the World Wide Web has grown into a huge part of our daily lives. It's hard to imagine what life would be like without it! Tim Berners-Lee's invention has truly changed the world, making it easier for people to connect, learn, and share with each other no matter where they are.

### **Let us hear 5 to 10 new words about the topic to expand vocabulary.**

- **Inventor** - Someone who creates something new that has never existed before.
- **Browser** - A software application used to access and view websites on the internet.
- **Link** - A reference in a web page that you can click on to jump to another page or document.
- **Server** - A computer or computer program that manages access to a centralized resource or service in a network.
- **Platform** - A base software or service that allows developers to create applications or content.
- **Interactive** - Computer systems or programs designed for users to engage in dialogue or activity.
- **Social Media** - Websites and applications that enable users to create and share content or to participate in social networking.
- **Streaming** - Transmitting or receiving data (especially video and audio material) over the internet as a steady, continuous flow.
- **Accessibility** - The quality of being able to be reached or entered; in technology, it often refers to the design of devices, services, or environments for people with disabilities.

- Connectivity - The ability of computers, smartphones, or other devices to connect to the internet or to each other.

Now it's time to do a few tasks and think about what we just learned.

### **Tasks:**

1. Research Activity: "Find three interesting facts about Tim Berners-Lee and write them down. You can work with a partner."
2. Comparison Chart: "Draw a chart that shows the difference between the internet and the World Wide Web. Use pictures and words."
3. Interview Role Play: "With a partner, pretend one of you is Tim Berners-Lee and the other is a reporter. The reporter should ask questions about how he came up with the idea for the World Wide Web."
4. Invention Poster: "Create a poster about your own invention. Include a drawing of your invention, describe what it does, and explain how it could help people."

Once you have answered the tasks, this episode ends.

Here start the ideas for the teachers:

### **Ideas for the teacher**

- Introduction Video: Start the session with a short, engaging video about Tim Berners-Lee and the creation of the World Wide Web to spark interest.
- Interactive Timeline: Create an interactive timeline in the classroom that highlights the key milestones in the development of the World Wide Web. Allow students to add facts or images they find during their research.
- Web Page Designing: Use simple, child-friendly web design tools to let students create their own web page designs. This can be a simple project where they imagine the content and layout for a page about their favorite hobby or animal.
- Group Discussion: Facilitate a group discussion on how students use the internet and the World Wide Web in their daily lives, emphasizing the impact of Tim Berners-Lee's invention.
- Guest Speaker: If possible, invite a local web developer or a teacher with web design knowledge to talk about the basics of creating websites and the importance of the World Wide Web.