VOTESFORSCHOOLS

Primary KS2

Be informed.

Be curious.

Be heard.

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Is cyber security important to you?

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Starter: A week for safety…

Watch (2-4 mins)
Click the image to watch a short video about cyber security. Then, take a few minutes to think about the three questions shown on the post-it notes.

0:00-1:11

https://safeshare.tv/x/RbMWyJToe1I

What do you think they want to "protect" and why?

What do you already know about cyber security?

What would you like to learn about cyber security?

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Our learning journey for this week!

Start

Starter: A week for safety…

Why are we talking about this?

What is cyber security?

What is your digital footprint?

Where can it go wrong?

Does it matter to you?

Vote!

Finish

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Why are we talking about this?

It's that time of year again: 9th February marks **Safer Internet Day 2021**! This year, the theme is **"An internet we trust: exploring reliability in the online world".**

However, this is **not the only reason we are discussing online safety** today: we have also had some help from **IBM** and the **National Cyber Security Centre (NCSC)** with this topic, and they are very keen to **hear what you have to say**.

All these **organisations**, along with **many others**, work hard to make sure we understand the **importance of cybersecurity** and **staying safe online**.

National Cyber Security Centre

IBM

Cyber security: The protection of devices, services and networks (and their information) from damage.

But **is cyber security important to you?** If not, **why might this be**? These are just some of the **questions** you are going to be thinking about today.

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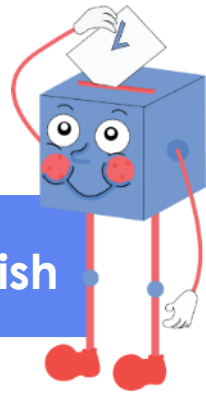

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What is cyber security?

Teacher's Note:
If short on time, just click to reveal the answers!

This week, you are talking about **cyber security.** It's a phrase you **might have heard** before, but what exactly **does it mean**?

Filling the knowledge gap! (2-5 mins)
Take a look at the information about cyber security. Using the word wall below, can you fill in the blank spaces?

1. **Cyber security** helps **protect** the devices we use, like **computers and tablets**.
2. Sometimes these **devices** can get things called **viruses**, which can be **damaging**.
3. **Cyber security** also helps to **stop personal information** from being **stolen** or **shared**.
4. **Personal information** can include things like your **address** or **birthday**.
5. We **spend lots of time online** today, which is why **cyber security** is **so important**.

Birthday	**Protect**	**Viruses**	**Information**
Address	**Cyber security**	**Online**	**Stolen**

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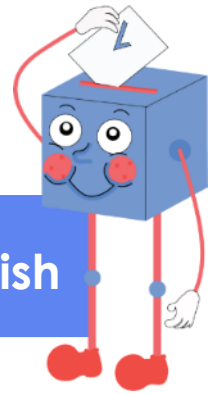

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What is your digital footprint?

You've probably heard people talk about **"digital footprints"** before, but **do you know what they are**? To help you, first think about normal footprints…

Imagine… (1-2 mins)

Imagine that you were walking through a big, muddy forest, leaving your footprints behind you. What would a detective be able to learn about you if they found your footprints?

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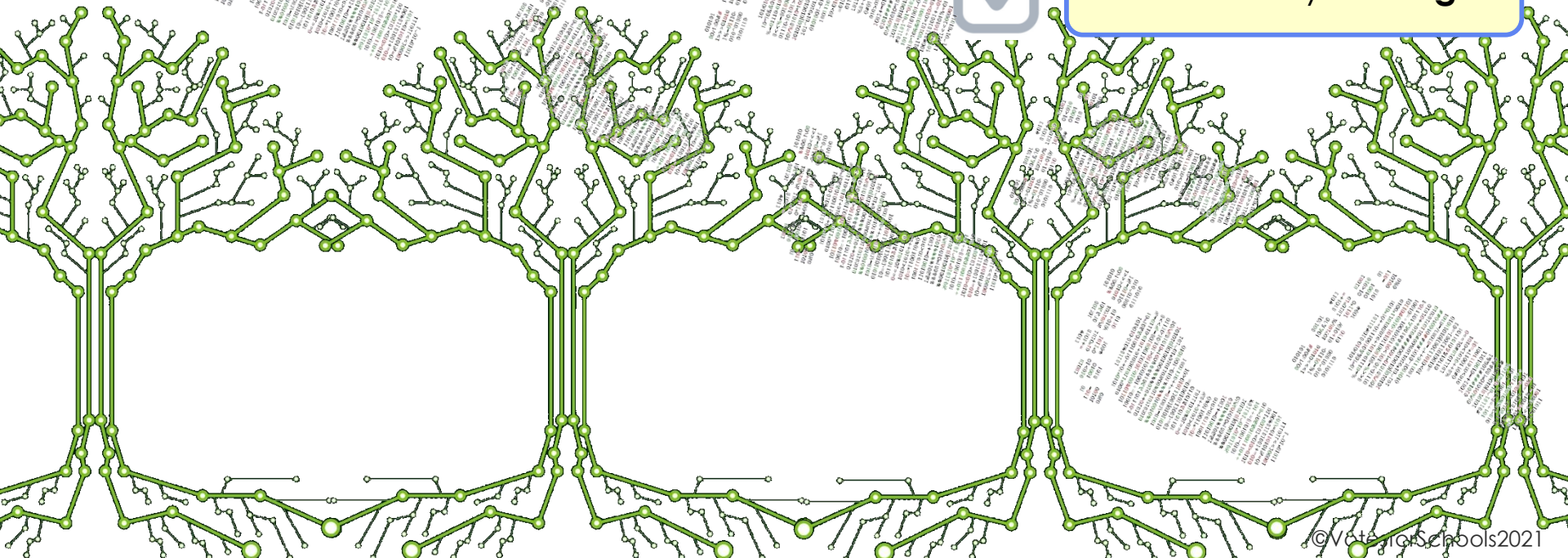
What is your digital footprint?

From just a footprint, **a detective can find out lots of things**, such as….

Just like in a muddy forest, **every time you use the internet you leave behind "digital footprints."** Each footprint contains a little **piece of information about you.**

- What **shoes** you were wearing
- What **size feet** you have
- How **tall** you are
- How much you **weigh**



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What is your digital footprint?

Unlike real footprints, **digital footprints can contain much more information about you**, such as…

The **videos** you like to watch

The type of **people** you connect with

Which **websites** you have visited

Which **shows** you like to watch

The **places** that you have visited

The things that you have **bought** online

Any time that you are connected to the internet, **this information is being collected** and being made into your own digital footprint.

My devices.. (2-3 mins)

Spend two minutes thinking about all of the devices in your house that are connected to the internet. How many can you think of?

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What is your digital footprint?

As you saw on the last slide, the **devices and programmes** we use **know a lot about us** because of our **digital footprint**.

This can be **both a good and a bad thing**. This is what you will be thinking about **next**!

Good versus bad (3-5 mins)
If you have time, copy out the table on the right. Then, on the next slide you are going to see some pros (good things) and cons (bad things) about having a digital footprint. On your own or with a partner, can you sort each thing into the correct part of the table?

Pros	Cons

Challenge:
Are there any that could be both good and bad?

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What is your digital footprint?

Can you sort each thing into the correct part of the table?

Pros	Cons

Places like Netflix **recommend shows we might enjoy.**

When we buy things, **our card details are stored.**

You can **log in to different pages and devices** easily.

To set up accounts, we have to **share our date of birth.**

Things we posted **a long time ago** can be **traced.**

It's easy for **anything suspicious to be detected** on accounts.

You can create **a positive version** of **yourself!**

If a system is **hacked**, all your **information** could be **stolen**.

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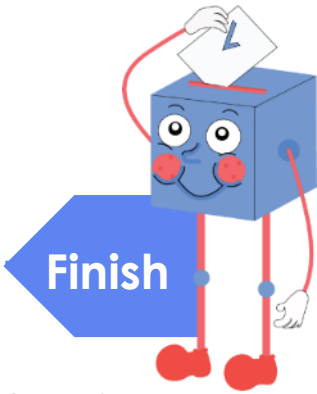

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Where can it go wrong?

Have you done it? (4-5 mins)
Take a look at these four statements. For each one, use your thumbs to show whether it is something that you have experienced before.

This **sounds like** me…

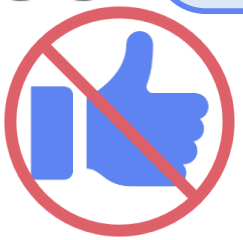
This **doesn't sound like** me!

I'm forgetful, so **I use the same password** for all of my websites. It has **numbers** and **special characters** though.

My laptop has this weird problem where **it always has ads popping up.** They're annoying, but I just **close them** and **carry on** with what I'm doing.

I **entered a competition** to win a holiday. All I had to do was **fill in a form** with my **address**, my **phone number** and my **full name** and then wait to see if I'm the **winner**!

I found a website that lets me **download expensive games for free**. They are making my computer quite **slow** though…



Did you put your thumbs up for any of those scenarios? If so, **your cyber security could be at risk.** Head to the next slide to find out why.

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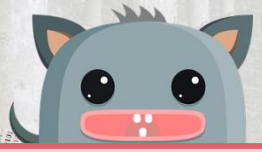
Where can it go wrong?

Like you did before, **imagine the internet as a massive forest**, which is covered in all of our **digital footprints**!

Inside this internet forest, there are different types of **"monsters"** who try **take information from our digital footprints.** These include…

Code Monster

Lots of **viruses** and **spyware** are hidden inside "software" that you can **accidentally download onto your computer** when you try to download a picture, a game or a file. **Once downloaded, it infects your computer.**



Information Monster

This monster will try to persuade you to hand over your **confidential information** such as passwords. For example, you might **see an email** that looks like it's from a site that you use. It will ask you to **click a link to log in** to the site, but the site will be fake. **When you put your information in, it will be stolen.**

Mistake Monster

Human errors are the mistakes we make when we are online that **give away** our **information**. For example, **using the same password on different sites** means that if one of your passwords is stolen by the Information Monster, the Mistake Monster can use it to **get into your other accounts.**

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Where can it go wrong?

Which monster is it? (2-4 mins)
Now that you know what "monsters" can do on the internet, take a look at these four statements again. Which monster is, or could be, attacking each one? Then, click to see if you are right.

Challenge:
Can you think of a time that you met any of these monsters?

Code Monster

Mistake Monster

Information Monster

Mistake Monster
Using the same passwords could mean that all of your accounts get hacked.

Code Monster
Things "popping up" randomly means that the Code Monster has already infected your computer.

Information Monster
Entering a "competition" online is just one way that this monster will try to steal your information.

Code Monster
The Code Monster tries to get into your device by pretending that it is a game or other file.

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Does it matter to you?

Does it matter to you? (5-10 mins)
On the next few slides, you are going to read what different children have to say about how important cyber security is to them. For each one, use your fingers to show how much you agree or disagree with them.

I totally disagree | I slightly disagree | I'm in the middle | I slightly agree | I totally agree

Does it matter to you?

I think that having a digital footprint is really **scary**. I think **I'm going to stop using the internet** completely.

I totally disagree

I slightly disagree

I'm in the middle

I slightly agree

I totally agree

Does it matter to you?

If you know how your digital footprint can be used, you **know how to keep yourself safe** too. I'm **not worried.**

I totally disagree

I slightly disagree

I'm in the middle

I slightly agree

I totally agree

Does it matter to you?

I share lots of things online, but it doesn't matter. There are **billions of people in the world**, so there's **not much chance** of something bad **happening to me.**

I totally disagree

I slightly disagree

I'm in the middle

I slightly agree

I totally agree

Does it matter to you?

I care a lot about my cyber security and **have different passwords for every site**. I keep them all written in my **notebook.**

I totally disagree

I slightly disagree

I'm in the middle

I slightly agree

I totally agree

Does it matter to you?

Cyber security protects us so that we can use all of the good parts of the internet and not the bad. **As long as we're all careful, this is a great thing!**

I totally disagree

I slightly disagree

I'm in the middle

I slightly agree

I totally agree

Does it matter to you?

Reflect (2-3 mins)
Now that you've heard what other people think about cyber security, take a few moments to think about how you feel about it. Use the sentence starters to help!

I think that cyber security is important to me because…

I don't think that cyber security is important to me because…

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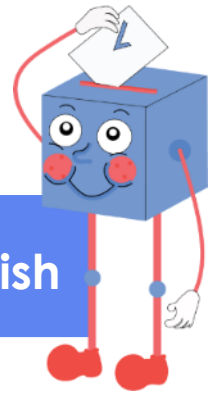

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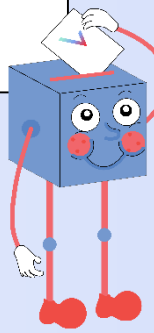
Is cyber security important to you?

Yes	No
• Now I know how my information can be used, I will be much more careful with what I do online. • Cyber security should be important to everybody. If we were all more careful, we'd all be safer. • Now that we are all online much more, there is a bigger risk for everyone. This is why we should all take it seriously. • …	• Hardly any of my information is online, so cyber security doesn't really matter to me. • There are billions of people in the world with their information online, so it's not likely to happen to me. • There are lots of experts whose job it is to protect us from things that happen online, so we don't have to worry about it. • …



We will be **sharing your thoughts on this topic** with **IBM**, the **National Cyber Security Centre**, **Safer Internet Centre** and **CEOP**.

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