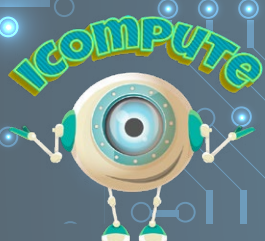
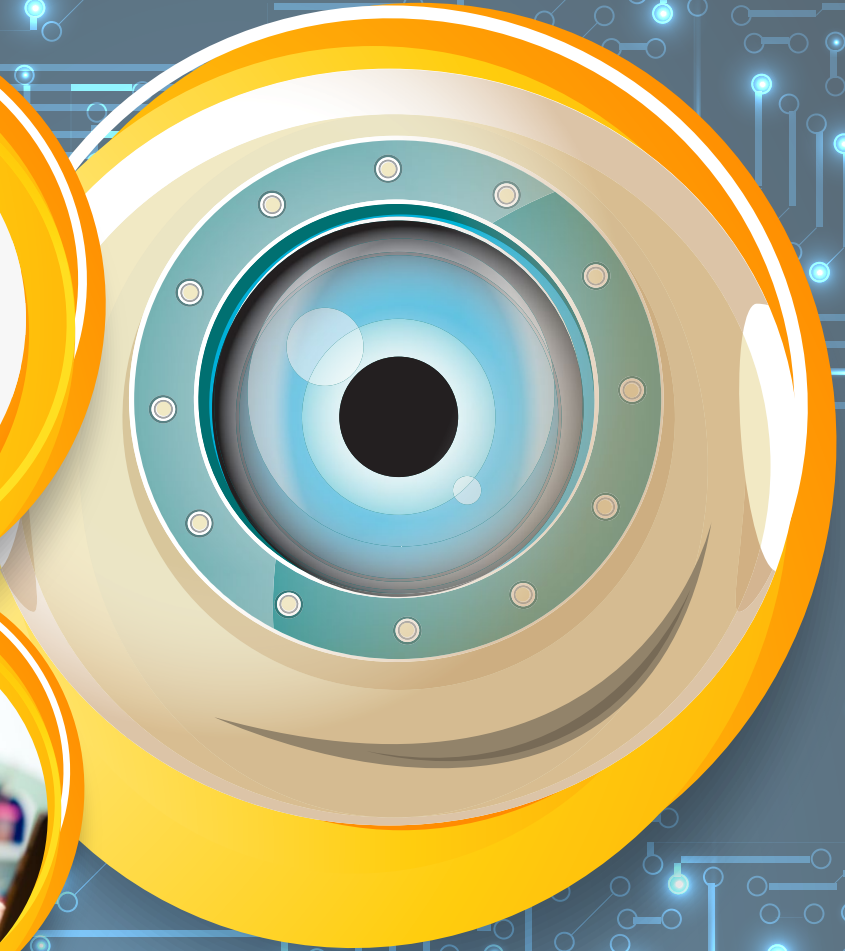


# iCompute

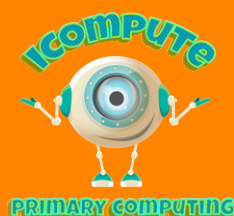
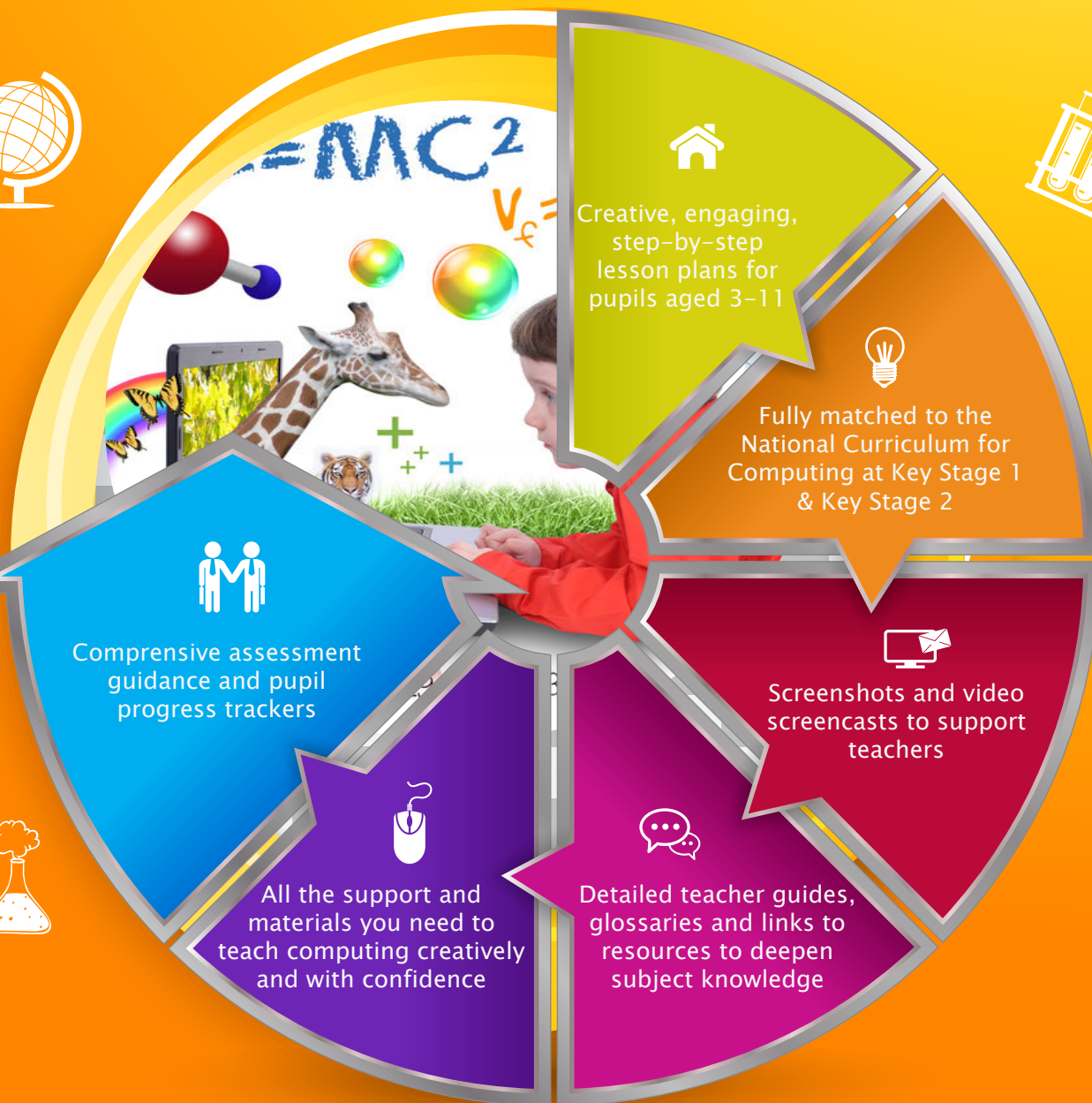


## iAntiVirus





# iCompute for Primary Schools



[www.icompute-uk.com](http://www.icompute-uk.com)



## What is a computer virus?

Coronavirus is all over the news at the moment. Have you ever heard of something called a **computer virus**? A computer virus is very similar to the flu and coronavirus.

**A computer virus is harmful software that can copy itself and attach itself to files**

## How are computer viruses spread?

If you've ever had a cold you'll know that you can spread it by coughing and sneezing. Each time you cough and sneeze you spread the virus through droplets that travel very fast and far. Anyone that has contact with these droplets can catch the virus from you.

It's the same for computer viruses. They are very infectious and can spread from computer to computer really quickly causing harm.

### Computer viruses spread through:

• Email and message attachments



• File downloads



• Links you click/tap



# Computer Viruses

## What harm can computer viruses do?

Just as a virus infecting a person can cause serious illness, a computer virus can cause serious problems.

### Computer viruses can...

- Make computers crash or run slowly
- Change files and programs
- Delete, steal and destroy data

## A computer virus is malware

Computer viruses are a type of malware. Malware is short for **malicious** (meant to harm) and **software**.

There are **other types of malware** that work in different ways.



### Worm

Software that copies itself and infects lots of computers without needing users to do anything



### Spyware

Software that spies on you, steals personal information and sends it to someone else

# Computer Viruses



## Trojan

Disguises itself as harmless software (e.g. a software update) to trick people into installing it. Then it attacks.

## How do you know if your computer has been infected?

There are lots of different viruses and malware around but the way they affect your computer often are similar. These include...

- Lots of pop-up messages
- Computer is running really slow
- Computer crashes or shows lots of error messages
- Files are missing or you can't open them
- Your browser homepage randomly changes
- Programs you don't recognise are running
- Security software is disabled



## How can we protect against viruses and malware?

Many viruses that affect people have vaccines to protect against becoming infected. Children are vaccinated against common viruses (e.g. measles, mumps and rubella). It's the same for computers, they can be protected against infection using **anti-virus** software. They work in the same way by spotting and stopping viruses from infecting people and computers.

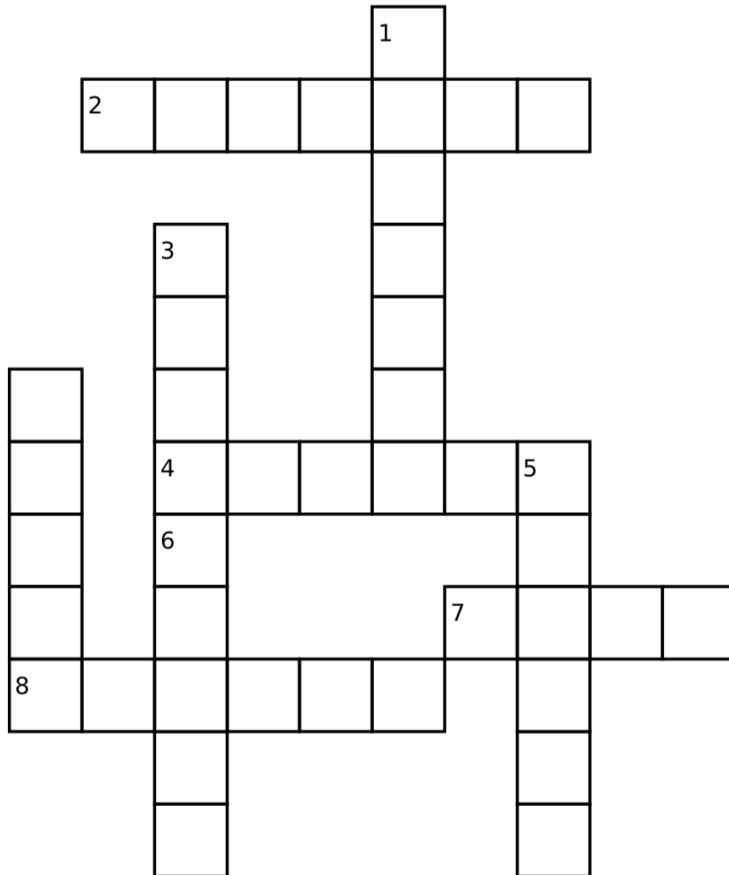
There are other things you can do too...



### Protecting computers

- Don't click on anything in messages and online unless you know exactly what it is
- Check your messages to make sure you know who it's from
- Don't download or open anything if you don't know where it's from
- Install anti-virus software and scan your computer often
- Keep anti-virus software up to date

# Computer Viruses Crossword



## Down:

- 1 Malicious software
- 3 Software that protects computers
- 5 Harmful software disguised as something else
- 6 Harmful software that copies and attaches itself to files

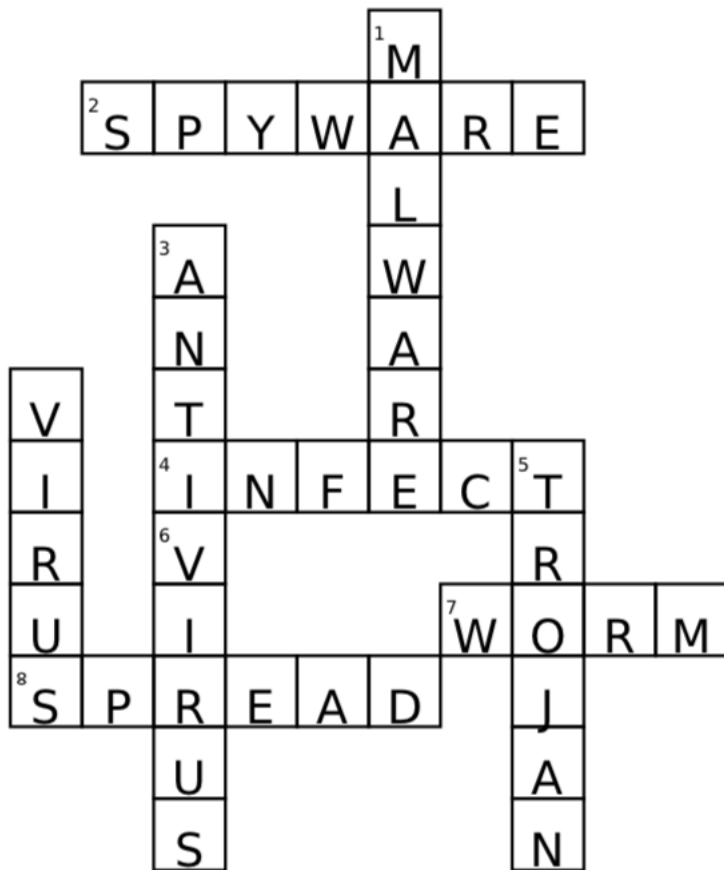
## Across:

- 2 Software that spies on you
- 4 Get in to the system
- 7 Harmful software that copies itself and does not need a user to spread
- 8 Copy from computer to computer

## Word Bank

antivirus	spread	trojan	virus
malware	worm	spyware	infect

# Crossword Solution



## Down:

- 1 Malicious software
- 3 Software that protects computers
- 5 Harmful software disguised as something else
- 6 Harmful software that copies and attaches itself to files

## Across:

- 2 Software that spies on you
- 4 Get in to the system
- 7 Harmful software that copies itself and does not need a user to spread
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## Word Bank

antivirus	spread	trojan	virus
malware	worm	spyware	infect



# Computer Viruses Poster

Create a poster for your classroom with information about types of malware and how to protect the school network.

Use digital drawing tools if you like:

<https://icomp.site/sketchpad>

# Swipe the Virus



Help! The school network has been infected with a virus!

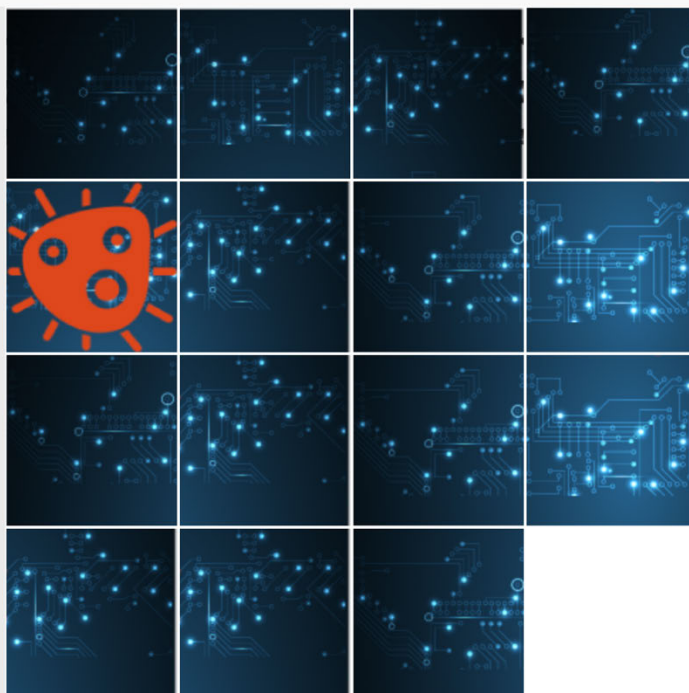
To play the game visit...

[icomp.site/anti-virus](http://icomp.site/anti-virus)

SAVE THE SCHOOL NETWORK!

**THE SCHOOL'S COMPUTER NETWORK HAS BEEN INFECTED WITH A VIRUS !  
YOUR MISSION IS TO SAVE THE NETWORK**

**AS AN ANTIVIRUS, MOVE THE VIRUS TO THE BOTTOM RIGHT SQUARE TO BE A HERO  
GOOD LUCK!**



New Game



# iCompute

LEARN | CREATE | INNOVATE



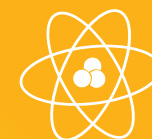
A computing scheme of work for teachers of all levels of experience.  
Fully matched to the  
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Used by thousands of teachers around the world, it contains all the materials schools need to teach computing



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