

# Topic 5: The Internet and Its Uses

EAL keyword sheet - Cambridge IGCSE Computer Science 0984. Write the word in your own language in the last column.

| Keyword                         | Meaning                                                                           | Example sentence                                         | In my language |
|---------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------|----------------|
| internet                        | A huge worldwide network of connected networks.                                   | <i>The internet connects millions of computers.</i>      |                |
| World Wide Web (WWW)            | A collection of web pages that you can see using the internet.                    | <i>The web is one service that runs on the internet.</i> |                |
| web browser                     | Software used to find and show web pages.                                         | <i>Chrome is a web browser.</i>                          |                |
| URL (uniform resource locator)  | The address of a web page.                                                        | <i>A URL starts with https://.</i>                       |                |
| HTTP                            | The set of rules for sending web pages. It does not protect data.                 | <i>HTTP is not secure.</i>                               |                |
| HTTPS                           | A secure version of HTTP that encrypts the data.                                  | <i>Banks use HTTPS.</i>                                  |                |
| protocol                        | A set of rules for how devices send and receive data.                             | <i>HTTP is a protocol.</i>                               |                |
| web server                      | A computer that stores web pages and sends them when asked.                       | <i>The web server sends the page to my browser.</i>      |                |
| DNS (domain name system)        | A system that changes a website name into an IP address.                          | <i>DNS finds the IP address for a URL.</i>               |                |
| IP address                      | A number that identifies a device on a network.                                   | <i>Every device on the internet has an IP address.</i>   |                |
| ISP (internet service provider) | A company that gives you a connection to the internet.                            | <i>My ISP charges me every month.</i>                    |                |
| HTML                            | The code used to build the structure of a web page.                               | <i>HTML tells the browser what to display.</i>           |                |
| cookie                          | A small file saved on your device by a website to remember information about you. | <i>A cookie remembers my login.</i>                      |                |
| session cookie                  | A cookie that is deleted when you close the browser.                              | <i>A shopping basket may use a session cookie.</i>       |                |

| Keyword                   | Meaning                                                                   | Example sentence                                          | In my language |
|---------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------|----------------|
| <b>persistent cookie</b>  | A cookie that stays on your device until it runs out of time.             | <i>A persistent cookie remembers my language.</i>         |                |
| <b>digital currency</b>   | Money that exists only in electronic form.                                | <i>Bitcoin is a digital currency.</i>                     |                |
| <b>cryptocurrency</b>     | A digital currency that uses encryption and has no bank in control.       | <i>Cryptocurrency can be sent anywhere in the world.</i>  |                |
| <b>blockchain</b>         | A list of records (blocks) joined together that cannot easily be changed. | <i>Blockchain is used to record transactions.</i>         |                |
| <b>cyber security</b>     | Protecting computers, networks and data from attack.                      | <i>Cyber security keeps my data safe.</i>                 |                |
| <b>malware</b>            | Software made to cause harm to a computer or steal data.                  | <i>Viruses and spyware are malware.</i>                   |                |
| <b>virus</b>              | Malware that attaches itself to files and spreads when they are opened.   | <i>A virus can delete files.</i>                          |                |
| <b>worm</b>               | Malware that spreads by itself across networks.                           | <i>A worm can slow down a whole network.</i>              |                |
| <b>trojan horse</b>       | Malware that pretends to be a useful program.                             | <i>I installed a free game but it was a Trojan horse.</i> |                |
| <b>spyware</b>            | Malware that secretly records what you do, e.g. passwords.                | <i>Spyware sent my passwords to a hacker.</i>             |                |
| <b>ransomware</b>         | Malware that locks your files until you pay money.                        | <i>The school was attacked by ransomware.</i>             |                |
| <b>phishing</b>           | Fake emails or messages that trick you into giving personal information.  | <i>The phishing email asked for my password.</i>          |                |
| <b>pharming</b>           | Sending users to a fake website even when they type the correct address.  | <i>Pharming steals login details.</i>                     |                |
| <b>hacking</b>            | Getting into a computer system without permission.                        | <i>Hacking is against the law.</i>                        |                |
| <b>DDoS attack</b>        | Many computers send so many requests that a website stops working.        | <i>A DDoS attack made the site crash.</i>                 |                |
| <b>brute-force attack</b> | Trying every possible password until the right one is found.              | <i>A long password is hard to break by brute force.</i>   |                |

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|-----------------------|-----------------------------------------------------------------------------|--------------------------------------------------------|----------------|
| <b>firewall</b>       | Software or hardware that checks network traffic and blocks dangerous data. | <i>The firewall blocked the attack.</i>                |                |
| <b>authentication</b> | Proving who you are, e.g. with a password or fingerprint.                   | <i>Two-factor authentication gives extra security.</i> |                |
| <b>biometrics</b>     | Using your body, e.g. fingerprint or face, to prove who you are.            | <i>My phone uses biometrics to unlock.</i>             |                |
| <b>proxy server</b>   | A server between a user and the internet that can filter and hide traffic.  | <i>The school uses a proxy server.</i>                 |                |