

# Year 8 Computing Learning Journey

## Spreadsheets

Functions & Charts  
Filtering & Sorting



## Networks

LANs, WANs & Connection Types  
Topologies  
Network Hardware



## Programming with Edublocks

Drawing shapes with Turtle  
user input and variables  
Selection with If-Else  
Subroutines



# KEY VOCABULARY

## Term One - Networks

- **Network:** Two or more computers connected to share data and resources.
- **LAN:** Local Area Network – a network in a small geographical area like a school.
- **WAN:** Wide Area Network – a network that covers a large geographical area.
- **Topology:** The physical or logical layout of a network (e.g., star, bus).
- **Router:** A device that connects different networks together and routes data.



## Term Two - Spreadsheets

- **Spreadsheet:** A program that stores data in rows and columns for analysis.
- **Cell:** The intersection of a row and column in a spreadsheet.
- **Formula:** A calculation using cell references (e.g., =A1+B1).
- **Function:** A predefined formula (e.g., SUM, AVERAGE, IF).
- **Filter:** A tool to display only the rows that meet specific criteria.



## Term Three - Programming with Edublocks

- **Variable:** A storage location in a program that holds a value.
- **Input:** Data given to a program by the user.
- **Selection:** A decision-making process using if, elif, else.
- **Iteration:** Repeating a block of code using loops (for, while).
- **Subroutine:** A named section of code that performs a specific task (function or procedure).



## Quick Recap Questions



1. What is the difference between LAN and WAN?
2. Give an example of a spreadsheet function and explain what it does.
3. What is a variable used for in programming?
4. What is the difference between selection and iteration?
5. What is the purpose of a subroutine in code?