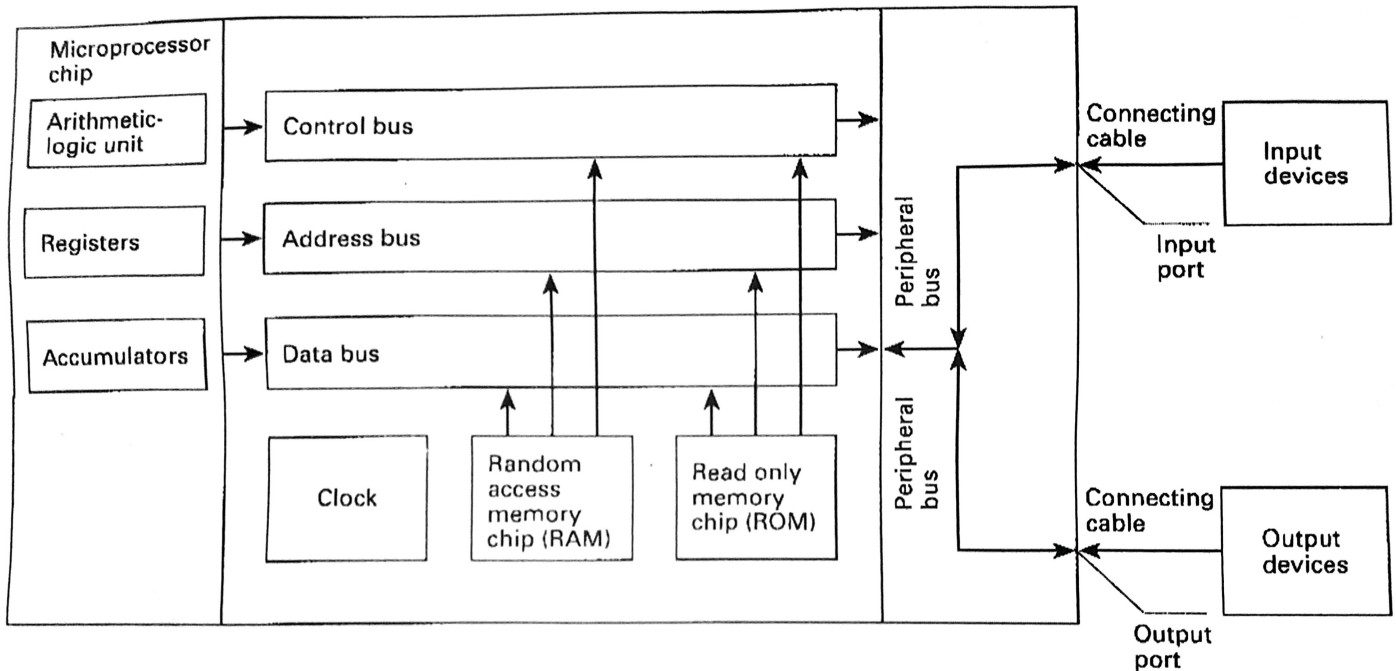


Reading

Task 12

Use the information in the reading passage and the diagram to help you match the terms below with the appropriate explanation or definition.

- A processor consists of many different electronic circuits and devices for performing control functions, arithmetic and logic operations, and data transfers. Data may be transferred from backing storage to the internal memory or from the internal memory to the arithmetic unit by means of
- 5 conductive channels known as buses. The part of the processor which controls data transfers between the various input and output devices is called the control unit.



- | | |
|-----------------------|--|
| 1 microprocessor chip | a used to send address details between the memory and the address register |
| 2 registers | b consists of an arithmetic-logic unit, one or more working registers to store data being processed, and accumulators for storing the results of calculations |
| 3 accumulators | c a group of signal lines used to transmit data in parallel from one element of a computer to another |
| 4 control bus | d groups of bistable devices used to store information in a computer system for high-speed access |
| 5 address bus | e an electronic circuit, usually a quartz crystal, that generates electronic pulses at fixed time intervals to control the timing of all operations in the processor |
| 6 data bus | f used for storing part of the operating system and application software known as 'firmware'; can only be read; cannot be written to or altered in any way |
| 7 clock | g used to store numeric data during processing |
| 8 RAM | h a group of signal lines dedicated to the passing of control signals |
| 9 ROM | i used for the temporary storage of application programs and data; can be written to and read from |

Speaking

Task 13

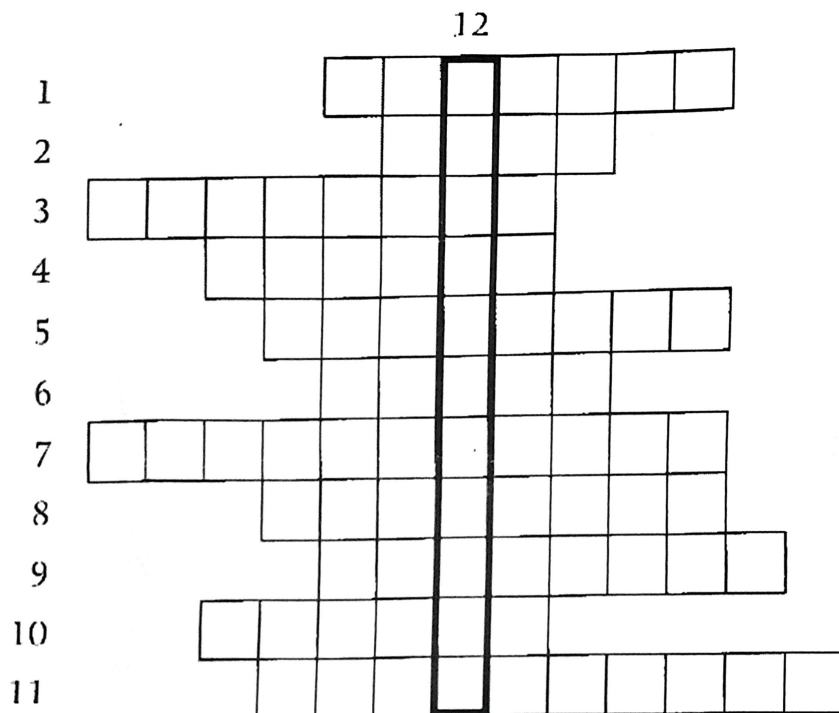
Work in pairs. Write down the list of terms (1–9) in Task 12 on a piece of paper. Without referring to your book, take turns to ask and answer questions about their functions.

- Useful expressions
What is/are ...?
What does/do ... do?

Word-play

Complete the puzzle and find the key word in 12 down.

Task 14



Across

- 1 A conductive line such as a data bus. (7)
- 2 A visual symbol used in a menu to represent a file or program. (4)
- 3 An input device used in computer games. (7)
- 4 An _____ device converts the electrical signals inside a computer into a form that can exist outside the computer. (6)
- 5 The name given to system software that is held in ROM. (8)
- 6 A device with one or more buttons used to point at locations on a computer screen. (5)
- 7 The part of the CPU that transmits co-ordinating control signals and commands to the computer. (7,4)
- 8 1,048,576 bytes. (8)
- 9 A large store of computerized data. (8)
- 10 The _____ system was first used commercially on the Apple Macintosh computer, but is now widely used on IBM machines. (7)
- 11 A signal route dedicated to sending information about locations within a computer. (7,3)

Down

- 12 A register containing the results of an operation performed by the arithmetic-logic unit. (11)