

Name _____ Date _____

4.1 Operating systems

Getting started

- 1 Tick (✓) to identify whether the software is an example of application software.

Software	Tick
Database	
Operating system	
Antivirus	
Spreadsheet	
Auto-update	
Web browser	
Word processor	
Firewall	

- 2 Complete the sentence about operating systems with the words provided.

application **drivers** **firmware** **interface** **interrupts**
memory **multi-tasking** **peripherals** **software** **system**

An operating system is an example of _____ software. The operating system performs tasks such as providing an _____, managing peripherals and managing memory to provide _____.

_____ software runs on the platform provided by the operating system.

The operating system runs on the _____, which is loaded by the bootstrap or bootloader.

The operating system also handles _____. There are signals generated by hardware or _____ to gain the attention of the processor.

Practice

- 1 Give **one** example of a hardware interrupt and **one** example of a software interrupt.

Hardware _____

Software _____

- 2 For each of the operating system functions in the table, list example tasks that it performs.

Function	Tasks
Managing memory	
Managing user accounts	
Managing peripherals and drivers	
Managing files	

Challenge

- 1** Describe how the operating system checks for, and manages, an interrupt.

- 2** Explain how the operating system allows for multitasking.
