

Cambridge English for  
**Scientists**

## ADDITIONAL ACTIVITIES

**UNIT 4** 'Use'

- a** The following sentences all describe equipment used by scientists in their work. Match the beginnings (1–10) to the endings (a–j).

1 Centrifuges are used ...	a ... a pipette was used.
2 An electron microscope is used ...	b ... to stop the experiment getting contaminated.
3 Scientists sometimes use a fume cupboard ...	c ... scientists often use an autoclave.
4 You can separate a mixture of compounds ...	d ... that scientists use to culture cells.
5 Liquid nitrogen can be used...	e ... several test tubes can be held at the same time.
6 To sterilize equipment, ...	f ... in an attempt to produce magnified images of very small objects.
7 A petri dish is a shallow glass or plastic dish ...	g ... for storing biological samples.
8 In order to measure and transfer exactly 1.75ml of the solution, ...	h ... by using High Performance Liquid Chromatography (HPLC).
9 One use of latex gloves is to protect the scientist; another use is ...	i ... to limit their exposure to hazardous chemicals and other airborne hazardous materials.
10 By using a test tube rack, ...	j ... to separate materials of different specific gravities, or to separate solid particles suspended in a liquid.

- b** Read the completed sentences from Exercise a (1–10) and circle or highlight every example of the word *use*. Then find an example of *use* as a(n) ...

- *-ing* form
- noun
- past passive verb
- present active verb
- present passive verb

- c** In pairs, decide how each of the examples of *use* you found in Exercise b is pronounced. Then ask your teacher or use a dictionary to check your answers.

- d** To express purpose (why the equipment is used), we can use the forms *in order to* + verb, *in an attempt to* + verb or simply *to* + verb. Underline examples of these forms in the completed sentences in Exercise a. Which form suggests that you may not necessarily get the result you intend?

- e** Complete the gaps in the following sentences with one of the five forms of *use* described in Exercise b, or with the words *in* or *to*.

- 1 A micrometer can \_\_\_\_\_ to measure very small lengths and diameters.
- 2 Generally, \_\_\_\_\_ order \_\_\_\_\_ produce high-voltage pulses from a low-voltage DC supply, an induction coil \_\_\_\_\_.
- 3 By \_\_\_\_\_ a magnetometer, the direction and strength of a magnetic field can be measured.
- 4 Physicists nowadays \_\_\_\_\_ particle accelerators \_\_\_\_\_ an attempt \_\_\_\_\_ learn more about the nature of matter and energy.
- 5 In the second experiment, a Polymerase Chain Reaction (PCR) technique \_\_\_\_\_ generate thousands of copies of the DNA sequence.
- 6 Protecting the sample being viewed is one \_\_\_\_\_ of a coverslip.

- f** Write five sentences about the use of pieces of equipment or techniques that you use in your work.

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## ADDITIONAL ACTIVITIES

**UNIT 4** Teacher's Notes

- a** Students match the beginnings and ends of the sentences.

**Answers**

1 j   2 f   3 i   4 h   5 g   6 c   7 d   8 a   9 b   10 e



- b** Students find examples of the word *use* in the completed sentences from Exercise a and then identify the different forms.

**Answers**

- 4 and 10 (by) using ...
- 9 use
- 8 was used
- 3, 6 and 7 use
- 1, 2 and 5 are used / is used



- c** Students work in pairs to decide how each of the examples of *use* is pronounced.

**Answers**

-ing form /ju:zɪŋ/  
noun /ju:s/  
past passive verb /wəz ju:zd/  
present active verb /ju:z/  
present passive verb /ə ju:zd/ /ɪz ju:zd/



- d** Students find examples of the phrases in the sentences in Exercise a. In pairs they then discuss the question.

**Answer**

*In an attempt to* sounds like you will not necessarily get the result you intend.



- e** Students complete the sentences.

**Answers**

- |                 |               |
|-----------------|---------------|
| 1 be used       | 4 use/in/to   |
| 2 in/to/is used | 5 was used to |
| 3 using         | 6 use         |



- f** Students write 5 sentences about equipment or techniques they use in their work.