WORKSHEET

# F12.2 Personal data and privacy

Technology and society · GCSE · OCR J277 1.6.1, AQA 8525 3.8, Edexcel 1CP2 5.2.1 · about 15 min

Name _____ Class _____ Date _____

## What this lesson is about

What personal data is, the Data Protection Act 2018, and anonymising a log.

- What counts as personal data?
- The Data Protection Act 2018
- Data minimisation in a program
- Anonymising

## Questions

**6 marks in all**

**1.** Which of these is personal data? [1 mark]

- ☐ **A** A student's school email address
- ☐ **B** The number of robots in a room
- ☐ **C** The speed of a motor
- ☐ **D** The colour of a mat

**2.** Which law protects personal data in the UK? [1 mark]

- ☐ **A** The Data Protection Act 2018
- ☐ **B** The Computer Misuse Act 1990
- ☐ **C** The Copyright, Designs and Patents Act 1988
- ☐ **D** The Freedom of Information Act 2000

**3.** What does data minimisation mean? [1 mark]

- ☐ **A** Collect only the data you actually need
- ☐ **B** Compress the data
- ☐ **C** Delete all the data at once
- ☐ **D** Store data on the smallest disk

**4.** Which is a right people have over their own data? [1 mark]

- ☐ **A** To see what is held about them and have mistakes corrected
- ☐ **B** To see everyone else's data
- ☐ **C** To be paid for it
- ☐ **D** To stop the company trading

**5.** A school keeps robot logs with names for ten years. Which principle does this break? [1 mark]

- ☐ **A** Kept no longer than needed
- ☐ **B** Accuracy
- ☐ **C** Lawfulness
- ☐ **D** Security

**6.** What does this program print? [1 mark]

```
rows = [('Sam', 240), ('Ava', 180)]
for n, (name, cm) in enumerate(rows, start=1):
    print(f'student {n}: {cm} cm')
```

## The task: anonymise the log

Each row of `log` is a name, an email and a distance in centimetres. Print an anonymised line for each, in the form `student 1: 240 cm`, numbering the students from 1 in the order they appear. Then print `records: <n>` and `total: <n> cm`. Nothing in the output may contain a name or an email.

```
# the two lines every program starts with: the commands, then the robot
from bugbot import *
connect()

# name, email, distance in cm
log = [
    ("Sam Patel", "sam@school.uk", 240),
    ("Ava Ng", "ava@school.uk", 180),
    ("Jo Reilly", "jo@school.uk", 95),
    ("Kit Hale", "kit@school.uk", 310),
]
```

**Plan your program here, then type it in and press Run.**

**Do it on the robot**

www.bugbotlab.com/learn/f12-2-personal-data-and-privacy/

The simulator checks it and tells you when it passes. Nothing to install, no account.

## Challenges

1. Print the furthest distance without printing who drove it.
2. Which principle of the Act does anonymising the log help you follow?
3. A school keeps every robot log for ten years. Which principle does that break?