

6 Automated systems – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

6.1 A system that does a job by itself, with no person controlling it.

6.2 To measure something (for example temperature or light).

6.3 To carry out the action (for example a motor moves a part).

6.4 sensor → microprocessor → actuator.

6.5 When the result of the action is measured again by the sensor, and used to decide what to do next.

6.6 The **sensor** measures the room temperature; the **microprocessor** compares it with 20 °C and decides; the **actuator** turns the heater on (if too cold) or off (if warm enough). The sensor keeps re-measuring (feedback), so the temperature stays steady.