

6 Robots and AI – Part 2

Name: _____ Class: _____ Date: _____

Vocabulary

Write each word three times.

English

Write it 3 times (English)

robot

Artificial intelli-
gence

Recall

Robots and artificial intelligence are special automated systems.

New ideas

Read these first, then do the Practice.

■ 1 Robots

A **robot** is a machine that can carry out tasks. It uses sensors, a processor and actuators:

robot

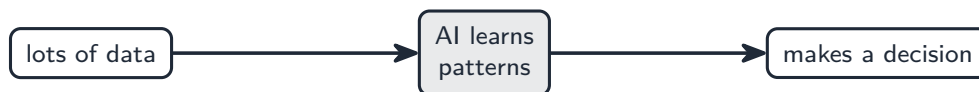
sensors → sense the world

processor → makes decisions

actuators → move parts

■ 2 Artificial intelligence

Artificial intelligence (AI) is software that learns from data and makes decisions:



For example, AI can recognise faces or recommend videos.

Watch out: a **robot** uses the same three parts as any automated system – *sensors*, *a processor*, *actuators*. **AI** is software that *learns from data* to make decisions, rather than following fixed rules.

Practice

Try these in order.

6.6 What is a *robot*? [1]

6.7 Name the three kinds of part a robot uses. [2]

6.8 What does AI stand for? [1]

6.9 What does AI learn from? [1]

6.10 Give one real example of AI. [1]

6.11 Challenge. A self-driving car is described as using AI. Explain what makes it AI rather than a simple automated system. [2]