DT

GCSE · WORKSHEET

Technology at work

Name _____

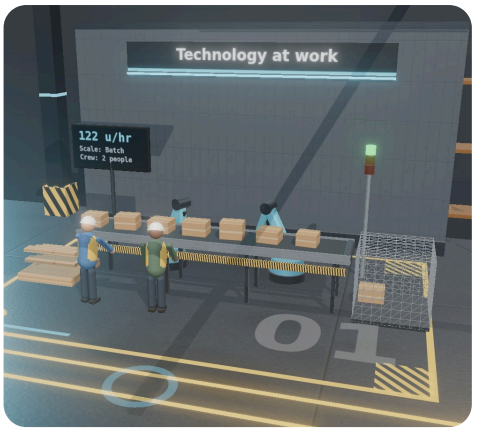
Class _____ Date _____

1 · Key words

Write the correct key word next to each meaning.

Automation **Fairtrade** **Obsolete** **Co-operative** **Robotics** **Crowdfunding**

	Using technology to do tasks with little human input.
	Machines programmed to carry out physical tasks.
	Raising money from many people, usually online, to fund a product.
	A business owned and run by its members.
	A scheme that guarantees producers a fair price and decent conditions.
	No longer used or useful.



Explore the 3D model at www.dtclassroom.com

2 · Quick check

Circle the correct answer.

1. Which job is a robot best suited to?

A Comforting a patient
B Spray painting 500 identical car doors
C Designing a chair for a client
D Negotiating with a supplier

2. What is the difference between the Internet and the World Wide Web?

A They are the same thing
B The Web is the network; the Internet is the pages
C The Internet is the network; the Web is the pages accessed over it
D The Internet is only email

3. What does crowdfunding also help a new business to test?

A Material strength
B Whether people actually want the product
C Factory layout
D Tax rates

4. Why might a factory be laid out in the order things are made?

A To use more floor space
B So people and parts travel less and output rises
C To make it look modern
D So robots can be hidden

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GCSE · APPLY IT

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3 · Apply it

1. Give two jobs in a car factory that robots are good at, and explain why. [4]

2. A supermarket adds self-checkouts. Describe one benefit for the shop and one drawback for staff. [4]

3. How does crowdfunding help a small business test an idea before making it? [3]

4 · Exam practice

Explain two ways in which automation has changed manufacturing. [4 marks]

Stretch

Your school wants to automate its canteen. Would you recommend it? Give a judgement and justify it.

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GCSE · TEACHER ANSWERS

Technology at work

Name _____

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1 · Key words

Automation	Using technology to do tasks with little human input.
Robotics	Machines programmed to carry out physical tasks.
Crowdfunding	Raising money from many people, usually online, to fund a product.
Co-operative	A business owned and run by its members.
Fairtrade	A scheme that guarantees producers a fair price and decent conditions.
Obsolete	No longer used or useful.

2 · Quick check

1. B: Spray painting 500 identical car doors. Repetitive, accurate, hazardous tasks suit robots. They cannot show empathy, creativity or negotiate.

2. C: The Internet is the network; the Web is the pages accessed over it. The Internet is the physical network. The Web is the collection of pages you reach through it.

3. B: Whether people actually want the product. If nobody backs it, few people would buy it, so crowdfunding tests demand.

4. B: So people and parts travel less and output rises. Good flow cuts walking and waiting, increasing throughput and safety.

4 · Exam practice: indicative content

- Robots do repetitive tasks (1), so products are consistent with less human error (1).
- Production can run 24 hours a day (1), increasing output and lowering cost per item (1).
- Fewer manual jobs (1), but new skilled jobs in programming and maintenance (1).

Teacher-written practice question in the AQA style, not taken from an AQA paper.