DT

GCSE · NEW AND EMERGING TECHNOLOGIES · LESSON 1

Technology at work

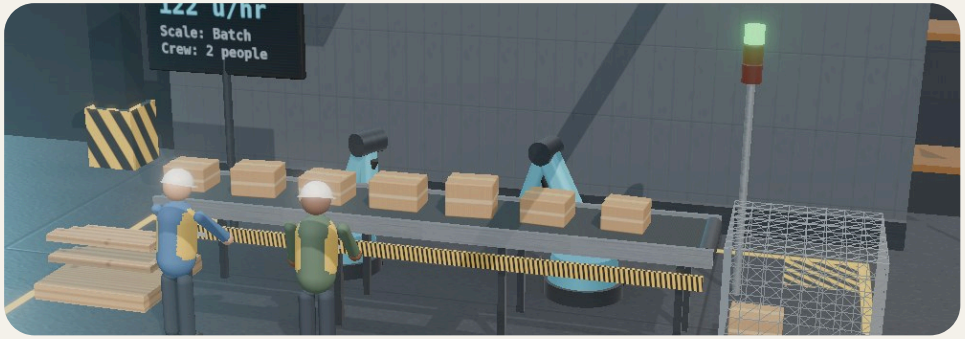
Knowledge organiser
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KEY WORDS

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.

KEY KNOWLEDGE

- Robots suit repetitive, accurate, dangerous jobs; they cannot do anything they are not programmed to do.
- Automation removes some jobs but creates others: programming, maintenance, supervision.
- The Internet is the network; the World Wide Web is the pages we reach through it.
- Good factory layout follows the order things are made, cutting walking and waiting.
- Crowdfunding raises money from many backers and tests demand before making.
- Co-operatives share ownership; Fairtrade guarantees fair prices for producers.



REMEMBER

New technology brings trade-offs: faster, safer, more accurate, but costly, and some skills become obsolete.

CHECK YOURSELF

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

Answers: 1 B · 2 C · 3 B

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