

# The Tech Challenge

for upper primary

Name: \_\_\_\_\_



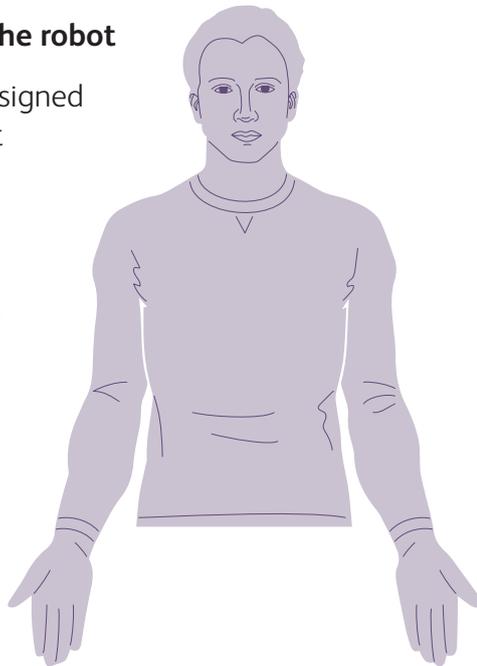
Take the Museum Tech Challenge! Explore our galleries to find out how technology has changed our lives. Learn some interesting job facts and find out where to go for more information.

## Start on Level 1 – Making It

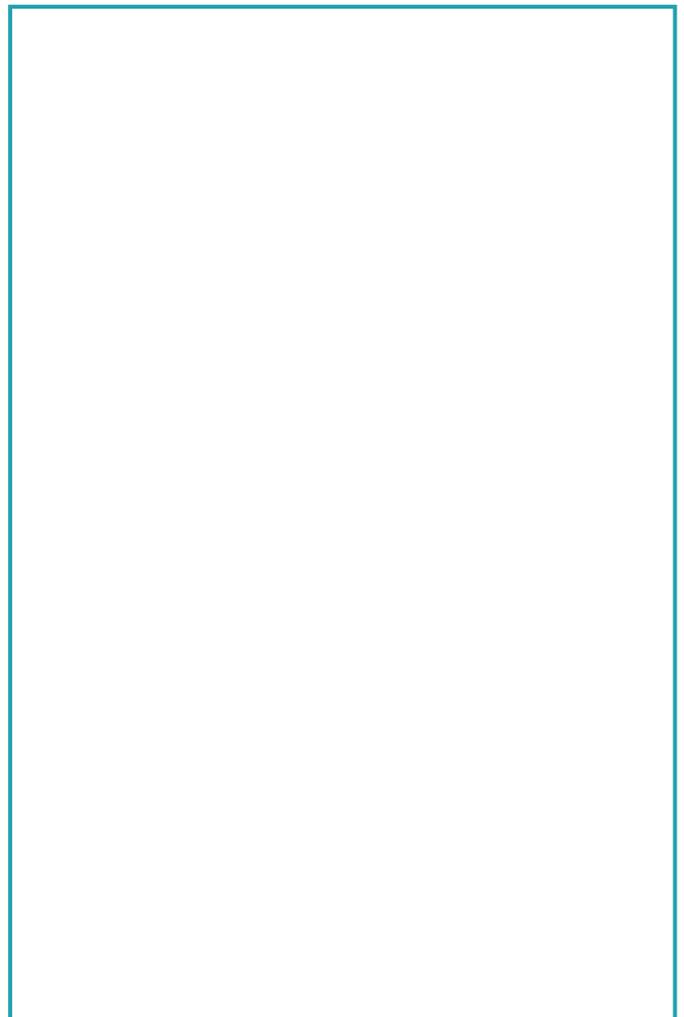
### Find Freddy the robot

Freddy was designed by scientists at the University of Edinburgh.

Circle the two features which Freddy has in common with a human.



Choose another robot that you can see nearby and draw it here.



Watch the video clip.  
What could Freddy do?

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What is it used for?

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### Go to Level 3 – Communicate

Find the enhanced personal role radio beside the 'At war' sign (in big central case, object 7)

This radio uses encryption. This means that the information sent is coded so that a secret message cannot be read by anyone else.

Who uses this type of radio?

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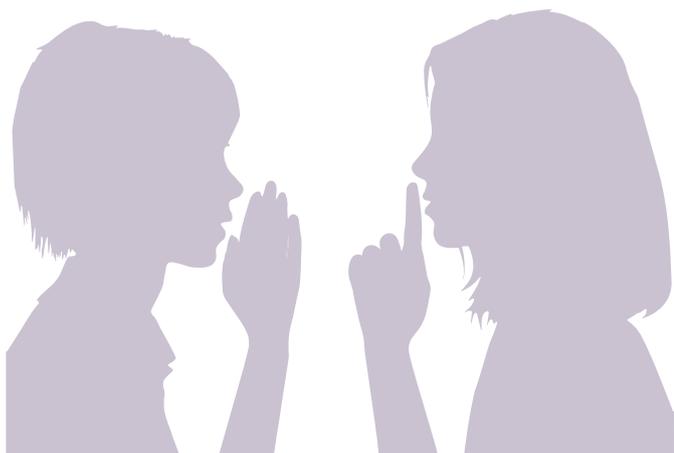
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Online passwords and messages can be encrypted.

When you go online what information should you not share with other people?

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*Computer coding skills are needed across all areas of work including fashion, health, sport and food & drink*

Find the Motorola phone known as 'The Brick'

This was made in 1987.

Draw a picture of a mobile phone which we use today.



Make a note of three differences between the phones.

- 1 \_\_\_\_\_
- 2 \_\_\_\_\_
- 3 \_\_\_\_\_

What does this tell us about how phone technology has changed?

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## Go to Technology by Design

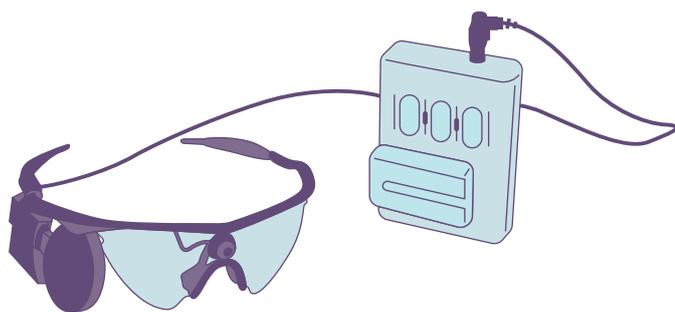
### Find the Engineering Humans section

Technology has been used to make devices which can help improve people's lives.

Find these objects and complete the missing letters to show which body part they relate to.



\_ e \_ r \_



\_ y \_ s

Go to the touch screen and read about contemporary prosthetics.

### Find the story about James Young (scroll to the last screen)

A prosthetic arm was designed for him by the Alternative Limb Project.

What technology does his new arm include?

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*A wide range of subjects including computing, maths, science and art can lead to a job using digital technology*

## So now you know more about: **Digital Technologies**

Almost everything we use from smartphones to home appliances and the Internet was designed by someone with digital technology skills.

Find out more at [www.myworldofwork.co.uk](http://www.myworldofwork.co.uk) and [www.digitalworld.net](http://www.digitalworld.net). Find out what subjects you need to study at school for different jobs, what skills you need, how many jobs there may be in the future and lots more.

