











Technology Around Us: A World of Information Technology

National Curriculum Recognise common uses of information technology beyond school.		Lesson Duration It is estimated that this lesson will take approximately 60 minutes.
Aim To understand how information technology is used in different places and by different people.		
Success Criteria I can identify examples of information technology in the wider world. I can describe how information technology is used in different places. I can talk about how people in different jobs make use of information technology.	Key Vocabulary: Information technology (IT)	
Resources Lesson Pack	Preparation Knowledge Organiser – one per child (This contains all the key knowledge for the unit and will be used during every lesson.) Job Character Worksheets - one set per group (optional) Differentiated Who Uses What? Activity Sheets – one per child as required.	

Prior Learning: In Lesson 2, children were introduced to the term 'information technology' and began to recognise items of technology included within this group.

Learning Sequence

	<p>Remember It: Use the Lesson Presentation to recall prior learning about information technology. Ask children to talk with their partner about each statement and decide whether it is true or false. Take feedback from the class before revealing the answer to each statement on the Lesson Presentation.</p> <p>Ask children to look on their Knowledge Organisers for the term information technology. Ask pairs to read the definition of information technology to each other.</p>	
	<p>Where Is Information Technology Used?: Use the Lesson Presentation to encourage children to think about the places where they may have seen information technology being used. Look in more depth at examples of the information technology used on the roads, in a cafe, in the supermarket and at an airport. Give children the opportunity to relate these examples to their own experiences of visiting these places. Can children think of any other places that information technology is used?</p>	
	<p>Who Uses Information Technology?: Encourage children to think about familiar uses of technology. Ask them how they use IT. Do they know what information technology their parents might use in the jobs they do? Take feedback from the class. Use the Lesson Presentation to investigate three different jobs (police officer, doctor and bus driver) where information technology plays an important role. Ask children to think about why the items of information technology are used in each job. Can they explain how the information technology helps the people to do their jobs?</p> <p>This part of the lesson can be carried out together using just the Lesson Presentation or you may wish to make use of the Job Character Worksheets so that children can work in groups to record their own ideas about what IT each person uses before coming back together to explore them in more depth on the Lesson Presentation.</p>	
	<p>Who Uses What?: Use the Lesson Presentation to introduce the differentiated Who Uses What? Activity Sheets. Explain to the children that in this activity they will be thinking about what information technology people use to help them do their jobs.</p>	
	<p>★ Children draw lines to match the information technology shown to the job in which it is used.</p> <p>★★ Children draw and name one piece of information technology used in each job shown.</p> <p>★★★ Children write about the information technology used in the different jobs shown.</p>	
	<p>More Or Less: Encourage children to think about the different levels of IT use in the wider world. Use the Lesson Presentation to discuss jobs that use a high level of information technology and those that do not rely as heavily on information technology. Can children think of an item of information technology that might be used in many different jobs?</p>	

Exploreit

Discussit: Provide groups with a copy of the _____ to encourage discussion about the use of information technology. Select one of the suggested activities in the pack that is most appropriate for each group to carry out.

Drawit: Set children the task of drawing a person using information technology as part of their job. Children could extend their work by writing about what the person in their drawing is doing.

Assessment Notes:



Computing

Technology Around Us

A World of Information Technology



Meet Quizby!

Can you spot me in the
Lesson Presentation?

The questions that appear will help you to think about the key learning throughout the lesson.



Aim

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Success Criteria

- I can identify examples of information technology in the wider world.
- I can describe how information technology is used in different places.
- I can talk about how people in different jobs make use of information technology.

Remember It

What is information technology?
How is it different from other types of technology?

Look at the statements below. Talk to your partner about each one.
Are they true or are they false?

A smartphone is information technology because it is a type of computer.

T

A kettle is a type of information technology.

F

Information technology needs to be connected to the Internet to work.

F

A digital camera is not information technology because it only creates and stores pictures.

F

Devices that create, store or exchange data are types of information technology.

T

Remember It

Find the words information technology on your Knowledge Organiser.

Information technology is:

- technology that creates, stores or exchanges information;
- technology that is a computer or that needs a computer to work.

Information technology is often called IT.



Where Is Information Technology Used?

Information technology is used in many different jobs and many different places.

Have you been to any of these places?

Next section



supermarket



cafe



airport



on the road

X

Can you think of any other places that information technology is used?



On the Road

What sort of information technology might you find out and about on the road?

Click on a picture to find out more.

Can you think of any other information technology that might be important on the road?



A speed camera records the speed of a car. If the car is going too fast it takes a picture and sends the information to the traffic police.



Some traffic lights use sensors to record how many cars are waiting. This information controls how often the traffic lights change colour.



Smart road signs use radar signals to measure how fast a car is travelling. This information controls a sign to tell drivers to slow down.

Back

Visiting the Cafe

What sort of information technology might you find when you visit the cafe?

Click on a picture to find out more.

Can you think of any other information technology that might be important in a cafe?



A credit card reader takes information from a customer's credit card and communicates with the bank to take the correct amount of money.



Some cafes use a digital food ordering device. The waiter clicks on a button to select the food that has been ordered. The information is sent to the kitchen to be cooked.



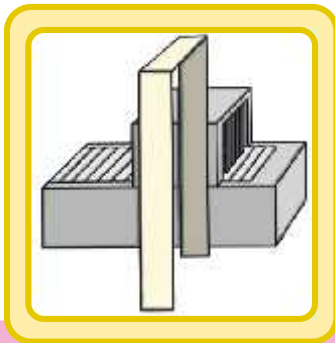
The cafe owner can use a mobile phone to take bookings from customers.

Back

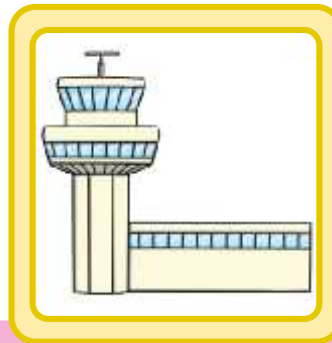
At the Airport

What sort of information technology might be used at the airport?
Click on a picture to find out more.

Can you think of any other information technology that might be important at the airport?



A security scanner uses signals to create a picture of what is inside your bag.



In the air control tower, a controller uses lots of different information to support the pilots in and around the airport.



Information boards are controlled by a computer. The information is updated all the time to tell people what time their flight is arriving or departing.

Back

In the Supermarket

What sort of information technology can you see when you go to the supermarket?

Click on a picture to find out more

Can you think of any other information technology that might be important in the supermarket?



A barcode scanner uses a light sensor to read information on a bar code. The scanner passes the information to a computer so that new items can be ordered.



A self checkout lets customers scan their shopping and pay for their items independently.



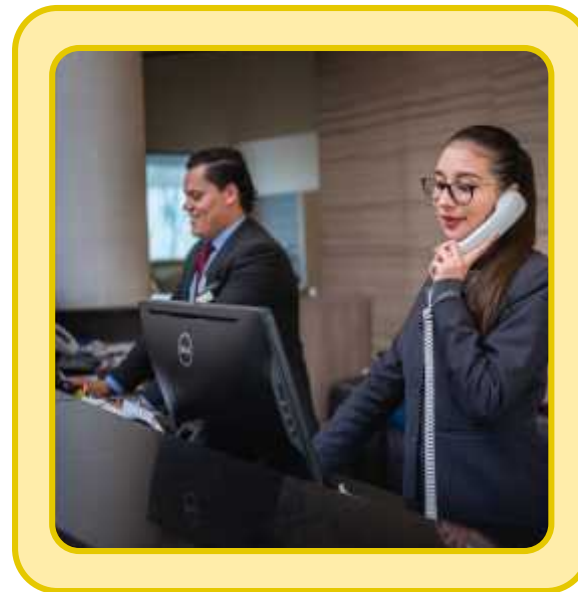
A shop assistant scans items and the till records how much each item costs. The till adds all the amounts together and prints a receipt for the customer.

Back

Who Uses Information Technology?

What information technology do you use? Think about what you use in school and at home.

What about the people you live with? Do they use information technology in their jobs?



Who Uses Information Technology?

People need different sorts of information technology depending on what job they do.

Click on one of the people below to investigate what IT they use when they are at work.

X

How does the information technology help them to do their job?



police officer



doctor



bus driver

Next Section

Who Uses Information Technology?

What information technology does a police officer use when they are at work?



walkie-talkie



laptop or computer



body cam



CCTV cameras

Back

Who Uses Information Technology?

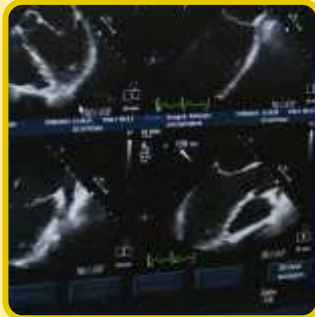
What information technology does a doctor use when they are at work?



x-ray machine



laptop or computer



ultrasound



smartphone

Back

Who Uses Information Technology?

What information technology does a bus driver use when they are at work?



card reader



electronic signs



GPS navigation system



traffic lights

Back

Who Uses What?

In my job I use lots of information technology. Can you think of any?



In my job I use lots of information technology. Can you think of any?

Use the activity sheets to investigate what information technology different people use in their jobs.

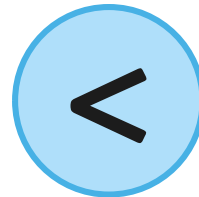
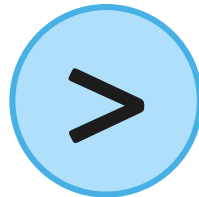
More Or Less

Some jobs use more information technology than others.

Look at the people below. How much information technology do you think they use in their jobs? Click on the greater than or less than arrow to show which person uses the most information technology in their job.



vet



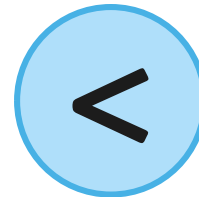
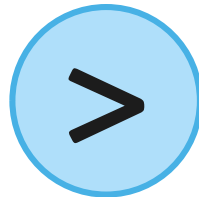
hairdresser

More Or Less

Look at the people below. How much information technology do you think they use in their jobs? Click on the greater than or less than arrow to show which person uses the most information technology in their job.



dog walker



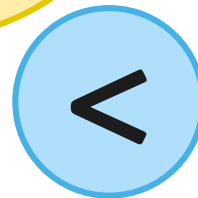
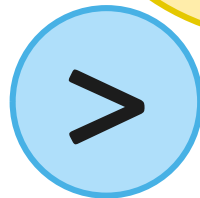
pilot

More Or Less

Look at the people below. How much information technology do you think they use in their jobs? Click on the greater than or less than arrow to show which person uses the most information technology in their job.



astronaut



waiter



X

Can you think of an item of information technology that might be used in many different jobs?



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Who Uses Information Technology?

What information technology does a bus driver use in their job?



Record your ideas on the sheet.



Who Uses Information Technology?

What information technology does a doctor use in their job?



Record your ideas on the sheet.



Who Uses Information Technology?

What information technology does a police officer use in their job?

Record your ideas on the sheet.



Who Uses Information Technology?

What information technology does a bus driver use in their job?

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Who Uses Information Technology?

What information technology does a doctor use in their job?



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doctor

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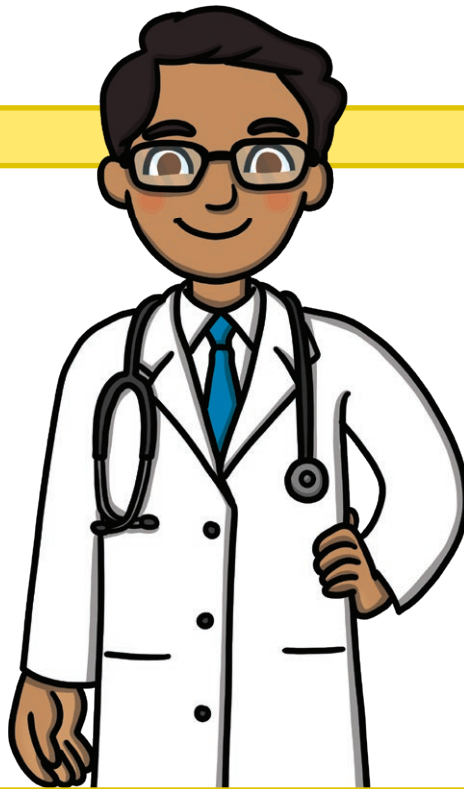


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What information technology does a doctor use in their job?



Record your ideas on the sheet.



doctor

Who Uses Information Technology?

What information technology does a police officer use in their job?



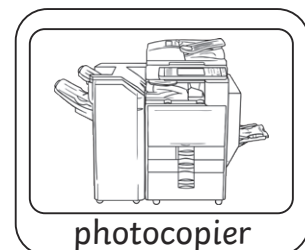
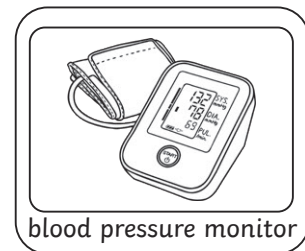
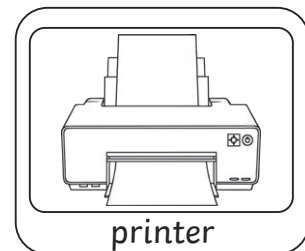
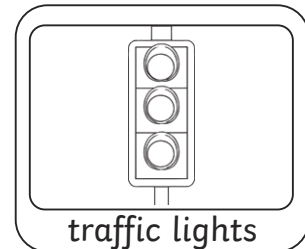
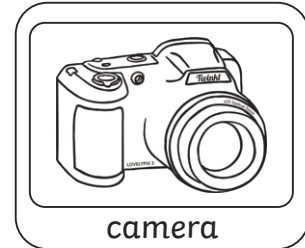
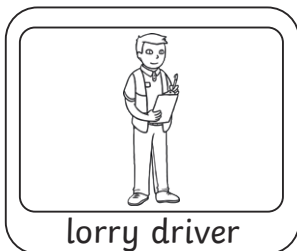
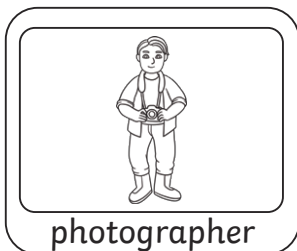
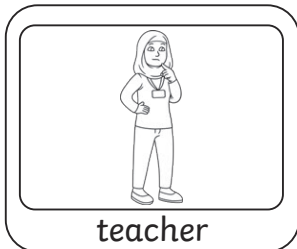
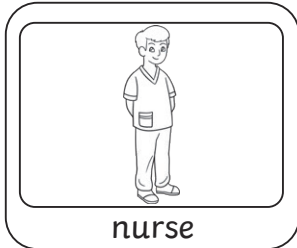
Record your ideas on the sheet.



Who Uses What?

To understand how information technology is used in different places and by different people.

Draw lines to match the person to the information technology they use to do their job.



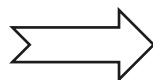
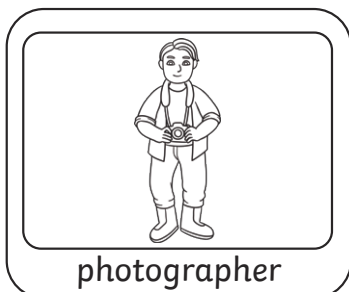
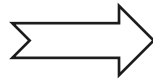
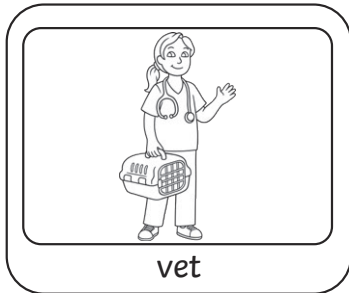
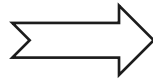
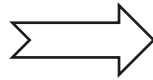
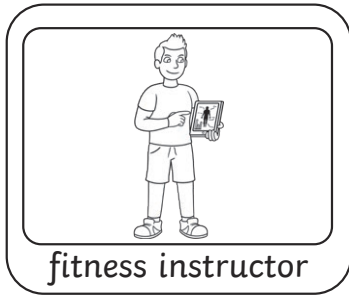
Challenge: Choose one person from your sheet. Explain to your friend how they use information technology in their job.



Who Uses What?

To understand how information technology is used in different places and by different people.

Think about the job each person does. Draw a picture of one piece of information technology they might use to help them do their job. Write the name of it at the bottom of the box.



Challenge: Explain to your friend how each person uses information technology in their job.



Who Uses What?

To understand how information technology is used in different places and by different people.

Think about the job each person does. Write about the information technology they might use to help them do their job.



librarian

A librarian uses...



journalist

A journalist uses...



vet

A vet uses...



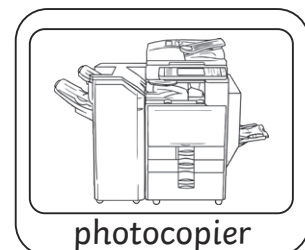
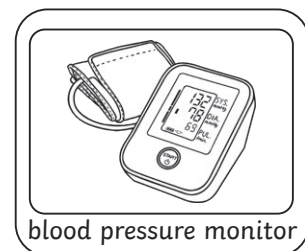
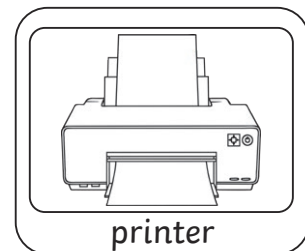
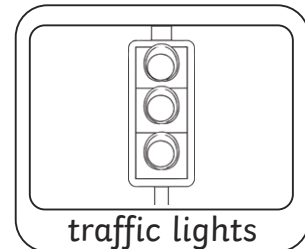
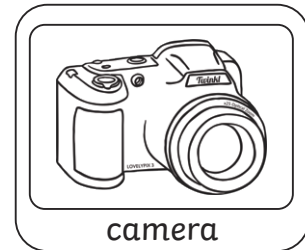
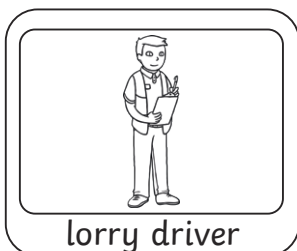
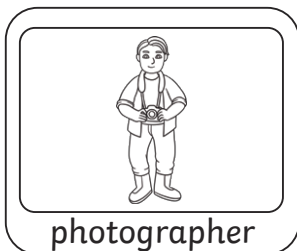
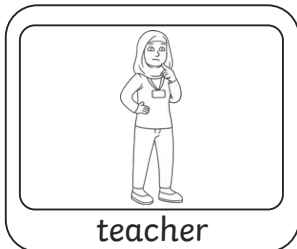
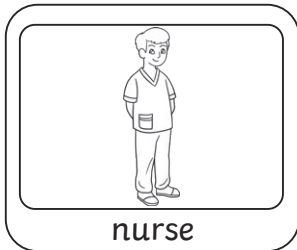
musician

A musician uses...

Who Uses What? Answers

To understand how information technology is used in different places and by different people.

Draw lines to match the person to the information technology they use to do their job.



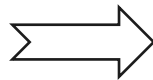
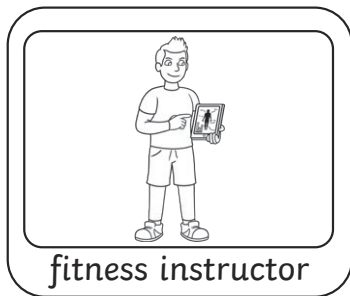
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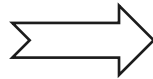
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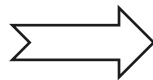
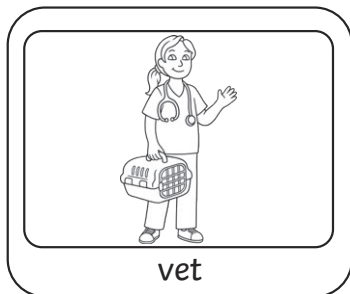
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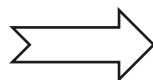
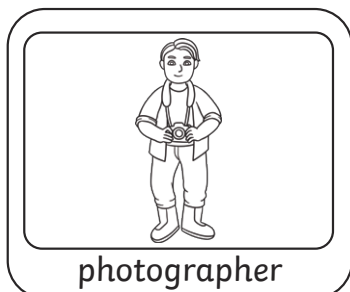
Pupils' own responses, such as:
smartwatch
running machine
training app on a smartphone



Pupils' own responses, such as:
computer
smartphone
printer
photocopier



Pupils' own responses, such as:
computer
the Internet
phone
scanner



Pupils' own responses, such as:
camera
computer
printer

Challenge: Explain to your friend how each person uses information technology in their job.



Who Uses What? Answers

To understand how information technology is used in different places and by different people.

Think about the job each person does. Write about the information technology they might use to help them do their job.



librarian

Pupils' own responses, such as:

A librarian uses...a barcode reader to scan the books and a computer to look up information.



journalist

Pupils' own responses, such as:

A journalist uses...a microphone to interview people and a computer to write their news stories.



vet

Pupils' own responses, such as:

A vet uses...a telephone to speak to people and a computer to look up patients' records.



musician

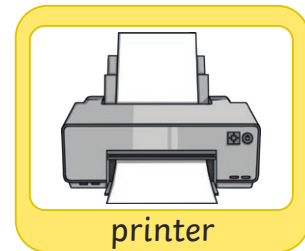
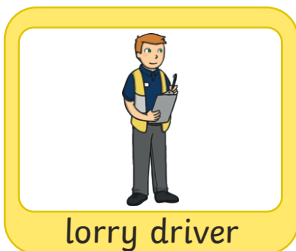
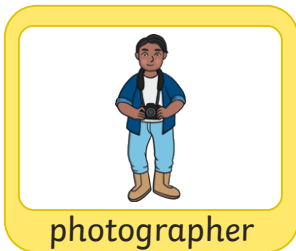
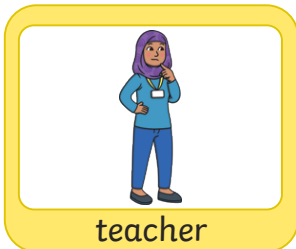
Pupils' own responses, such as:

A musician uses...a microphone to record their music and the Internet to share their music with other people.

Who Uses What?

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Draw lines to match the person to the information technology they use to do their job.



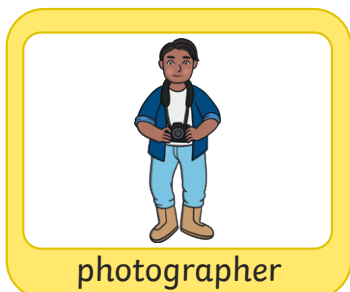
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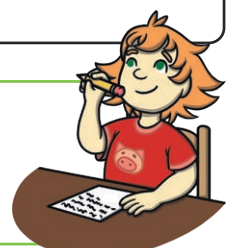
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A librarian uses...



A journalist uses...



A vet uses...

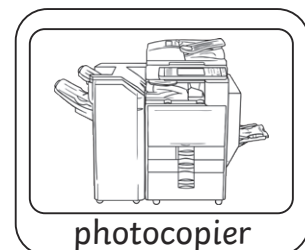
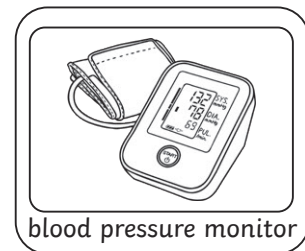
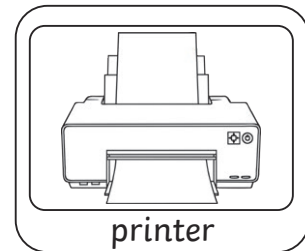
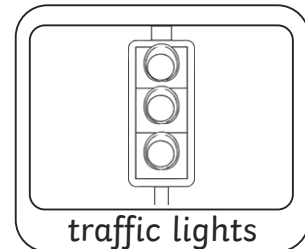
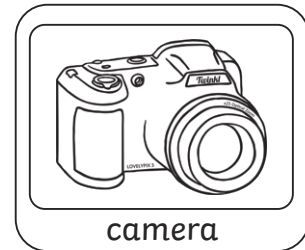
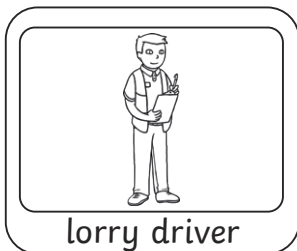
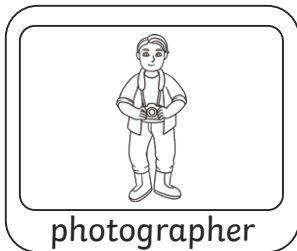
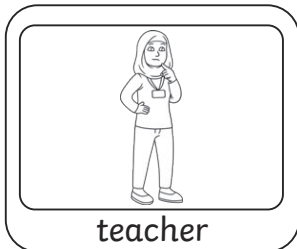
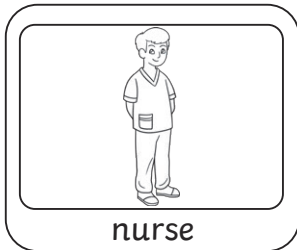


A musician uses...

Who Uses What? Answers

To understand how information technology is used in different places and by different people.

Draw lines to match the person to the information technology they use to do their job.



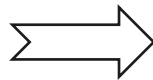
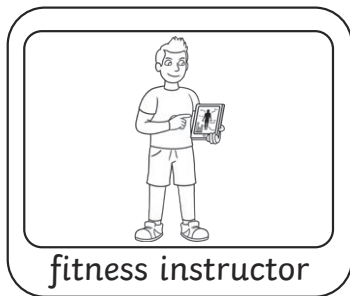
Challenge: Choose one person from your sheet. Explain to your friend how they use information technology in their job.



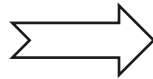
Who Uses What? Answers

To understand how information technology is used in different places and by different people.

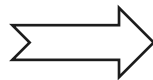
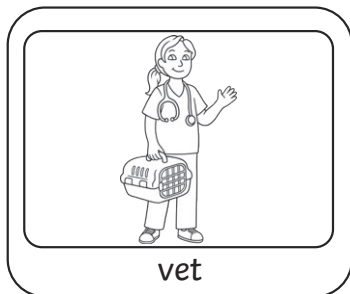
Think about the job each person does. Draw a picture of one piece of information technology they might use to help them do their job. Write the name of it at the bottom of the box.



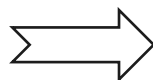
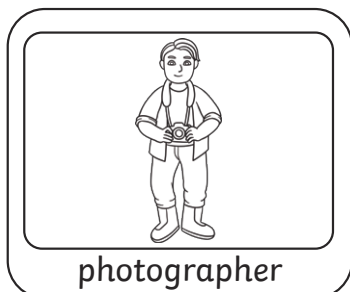
Pupils' own responses, such as:
smartwatch
running machine
training app on a smartphone



Pupils' own responses, such as:
computer
smartphone
printer
photocopier



Pupils' own responses, such as:
computer
the Internet
phone
scanner



Pupils' own responses, such as:
camera
computer
printer

Challenge: Explain to your friend how each person uses information technology in their job.



Who Uses What? Answers

To understand how information technology is used in different places and by different people.

Think about the job each person does. Write about the information technology they might use to help them do their job.



librarian

Pupils' own responses, such as:

A librarian uses...a barcode reader to scan the books and a computer to look up information.



journalist

Pupils' own responses, such as:

A journalist uses...a microphone to interview people and a computer to write their news stories.



vet

Pupils' own responses, such as:

A vet uses...a telephone to speak to people and a computer to look up patients' records.



musician

Pupils' own responses, such as:

A musician uses...a microphone to record their music and the Internet to share their music with other people.

Technology Around Us | A World of Information Technology

To understand how information technology is used in different places and by different people.		
I can identify examples of information technology in the wider world.		
I can describe how information technology is used in different places.		
I can talk about how people in different jobs make use of information technology.		

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