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## STARTER () Technology quiz

Take the quiz below to test your knowledge of technology. Circle the correct answers.

- 1. When was the first iPhone released?
  - a. 1999
  - (b) 2007
- 2. 'Apps' are also known as:
  - a Digital applications
  - b. Apples
- 3. The first social media site was created in:
  - a 1997
  - b. 2010
- 4. What does Al stand for?
  - a. Academic intelligence
  - b. Artificial intelligence
- 5. Which came first?
  - a The X-ray (takes pictures insign the body)
  - b. The television
- 6. Robots can now be used to perform some operations.
  - a True
  - b. False
- 7. The UAE has smart ambulances. They can make traffic lights turn from re to green.
  - (a) True
    - b. False
- 8. Which of the following can be a type of personal medical technology?
  - a. Mobile phone app
  - b. Heart rate monitor
  - c Both



#### Discussion: Technology in healthcare

In pairs, answer the questions below and then discuss your answers with the class.

How do you think technology is being used in healthcare?

Vaccins, Procedures & systems that improve patient care. Technology is used in Patient diagnosis & in Patient treatment and recovery.

2\*Medical technology is also used to prevent diseases before they happen.

They have the ability to carry out more advanced medical research.

Can you think of any devices that are used to diagnose and treat people?

Stethoscopes.	ices mar are used to and most use and mear peop	ic.
O & Hypodermic needles.		
91		

: 0 3 Blood Dressure cuffes:

MRI Scanners.

OB Heart monitors.



### True or false



Decide if the following statements are true or false.

	True	False
Medical technology includes medicines and vaccines.	V	
Medical technology helps people to live a healthy lifestyle.	/	
Medical technology is only used in patient treatment.		/
Medical technology is raising healthcare costs.	V	



## What are they?

Look at the pictures of medical inventions from the past. Do you know what any of them are or what they might be used for? Write your answers in the spaces provided.













1. This was invented in 1816. What is it?

Stethoscope.

What do you think it is used for?

It is used for listening to the action of someone's heart or

2. This was invented in 1895. What is it?  X-ray. (Medical Imaging)).
What do you think it is used for?
The most Limilian use of it is for checking frontures.
But it can also detect if there is any disorder in the body
internal organs.
3. This was invented in 1898. What is it?
Hearing aid.
What do you think it is used for?
It is used for improving hearing by making found audible to
a person with hearing loss.
4. This was invented in 1965. What is it?  Portable defibrillator ((AED))
What do you think it is used for?
It is used the as a quick to simple treatment of sudden coordiac arrest.
5. This was invented in 1956. What is it?  Metered Dose Inhaler.
What do you think it is used for?
It is used for helping Deople in delivering a specific amount of medication to the lungs.
of medication to the lungs.
6. This was invented in 1714. What is it?  Ther Mometer.
What do you think it is used for?
It is used for checking or testing 80x660xs 80m Someone's
***************************************



CHAINS.

## Medical advances timeline



Write the date next to each of the medical advances. Then put them in the correct order from 1-10. Number 1 should be the oldest and number 10 the most recent.

	Date	Order
Insulin is first used to treat diabetes	(1922))	4
MRI body scanner is created	189311	F
Chemotherapy is first used	((1946))	[3]
First remote 'telesurgery' is peri (rive)	((2001))	[9]
First cancer vaccine is created	((1970))	[6]
Stem-cell therapy acreated	((1998))	[8]
3D printer is used for a skull transplant	((2014))	[10]
Discovery of penicillin	((1928))	[2]
First human organ transplant	((1954))	[4]
CPR is first used	(1960))	5



## CHAIN

#### Healthcare in the past

Look at the statements below about healthcare 100 years ago. Which one surprises you the most? Choose the one that is most surprising to you and then write how it is different from what happens in healthcare today.

- 1. 1Babies were born at home.
- 2. Doctors made house calls instead of patients visiting them in clinics or hospitals.
- 3. Surgery was usually carried out in people's houses.
- 4. People did not have access to specialist scans, medicines and vaccinations.

I was most surprised by:
1# Surgery was usually carried out in Dentie's houses.
I was surprised because:
2#It's totally different what is happening nowadays!
······································
······································
It is different from what happens today because:
3 # Doctors used to perform surgeries in hospitals are
nowadays 1-
***************************************



#### Augmented reality

Write a short paragraph that describes augmented reality.

[\*Argumented reality is the technology that allows objects in the real world to be enhanced by computer generated information.

It works by combining live video-streaming with state of the -art AR software \*]



#### What are the innovations?

S.

Write a short description of each of the medical innovations in the boxes provided.



#### Electronic bealth records:

amount of information about Patients & health are patterns.



#### Smart ambulances:

tit is a project for smart connectivity between the national ambulance services & hospitals.

Those ambulances can turn red traffic signals green and beam patients details directly to hospitals.



#### Augmented reality platforms:

+ They are platforms that work by combining live video-streaming with state-of-the- art AR software.



## Discussion: The future of healthcare

Think about what you have already learned. What do you think healthcare might look like in the future? Discuss with your class and make notes below.

In the Luture, there will be more modern medical technologies that can be used in the process of treating people Such as Brain-implant therapies, Implanted technology.

Nano technology and 3D bio Printing.



#### **Innovations**

Answer the following questions about innevations.

What are innovations:

Name two innovations in healthcare:

How often are exciting innovations being created?

\* They are new ideas, processes

1 Brain - implant therapies.

23D bioprinting.

\* Every single day . \*





#### **Healthcare innovations**

Look at the pictures of some healthcare innovations below. Try to match them with the descriptions.



A robot surgeon; able to assist doctors carry-out precision surgery



Arter Dicial intelligence (AI)
Asspital receptionist



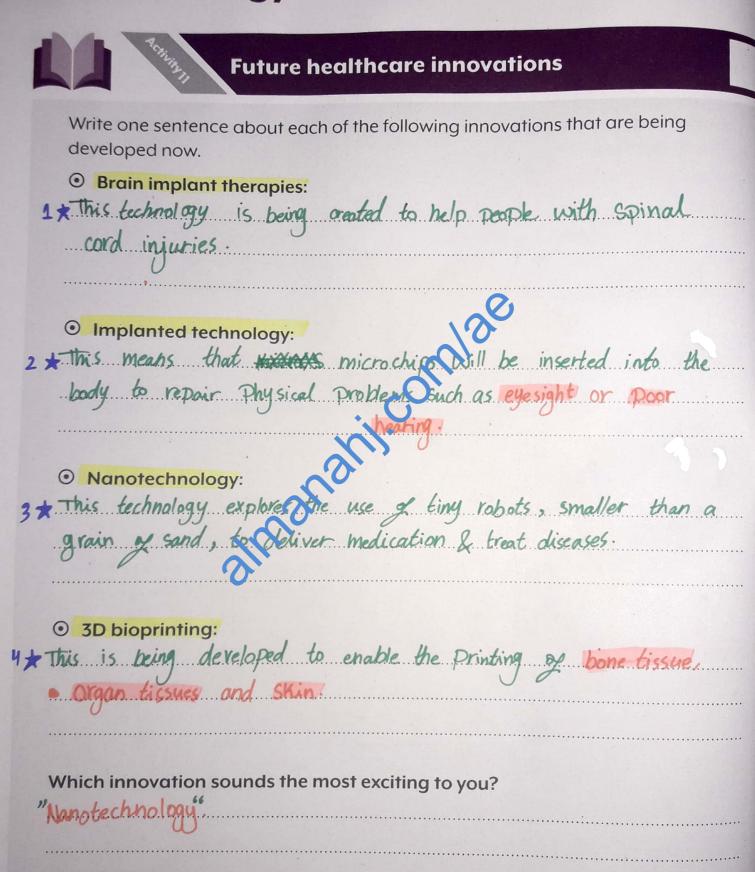
Nanotechnology; nano-robots carrying out cellular repairs

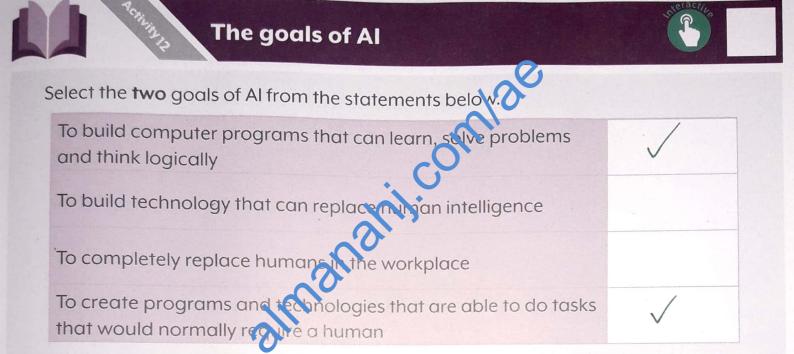


A magnetic resonance imaging (MRI) scanner; used to create images inside the body



An ECG or heart rate monitor; used in hospitals to monitor a patient's heart rate





## 11.2 Artificial intelligence in healthcare



### Al's benefits in healthcare



Finish the sentences about the benefits of Al in healthcare.

Al improves patient care by:

standardising tests and treatments

making tests and treatments more disorganised.

Al minimises medical errors by:

deleting medical records after 30 days.

analysing patient

Al can diagnose diseases:

slower than

accurately than a human.



## being used in healthcare?

Look at the descriptions of how Al is being used in healthcare. Write what type of artificial intelligence they are describing.

D	e	S	C	ri	p	ti	io	n

This artificial intelligence can be used in

This AI can be used to check patients into hospitals and collect patient information.

This type of artificial intelligence can look at X-rays to detect diseases or small defects.

This artificial intelligence records the health data of large amounts of patients.

#### Type of Al

This artificial intelligence can be used in operations to help guide surgeons' instruments. AI asisted robotic Surgery".

2 "Virtual nursing assistant" \*

4 Data & Statistics. \*