X-rays 1

1 X-rays are often used to investigate injuries inside the body. The photograph shows an X-ray of a hand.

The X-ray photograph is produced on white film that reacts to X-rays. The parts of the film that are exposed to X-rays turn black.



1 (a)	Which of the following properties of X-rays allows an image to be formed on the film.		
	Tick ✓ the correct box(es). [2 marks]		
	They can ionise atoms		
	They are transmitted by healthy tissue		
	They are absorbed by metal and bone		
	They are part of the electromagnetic spectrum		
1 (a) (i)	Another way of using X-rays is in a computer tomography scanner (CT scanner).		
	Give one advantage and one disadvantage of using a CT scanner to produce images inside the body. [2 marks]		
	Advantage		
	Disadvantage		

my-GCSEscience.com ESPQ CHY3 XRAY

1 (b)	X-rays are not used to produce images of babies in the womb.	
	Use your understanding of X-rays to explain why.	[4 marks]
		[+ marks]
		(Total 8 marks)