



X-rays

Symbol Book

X-rays

Symbol

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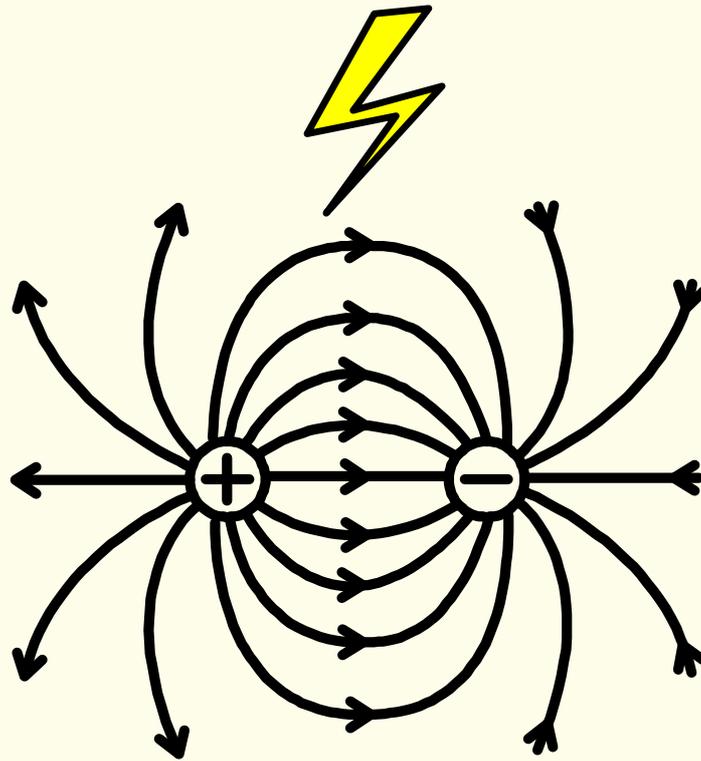
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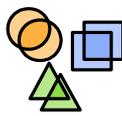
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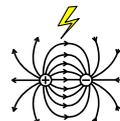
X-rays



are a

type

of



electromagnetic

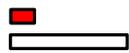


radiation.

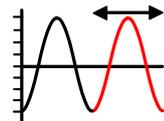


X-rays

have a



shorter



wavelength

than



visible light.



X-rays

have



more



energy

than

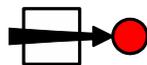


visible light.

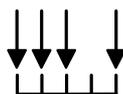


X-rays

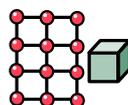
can



go through



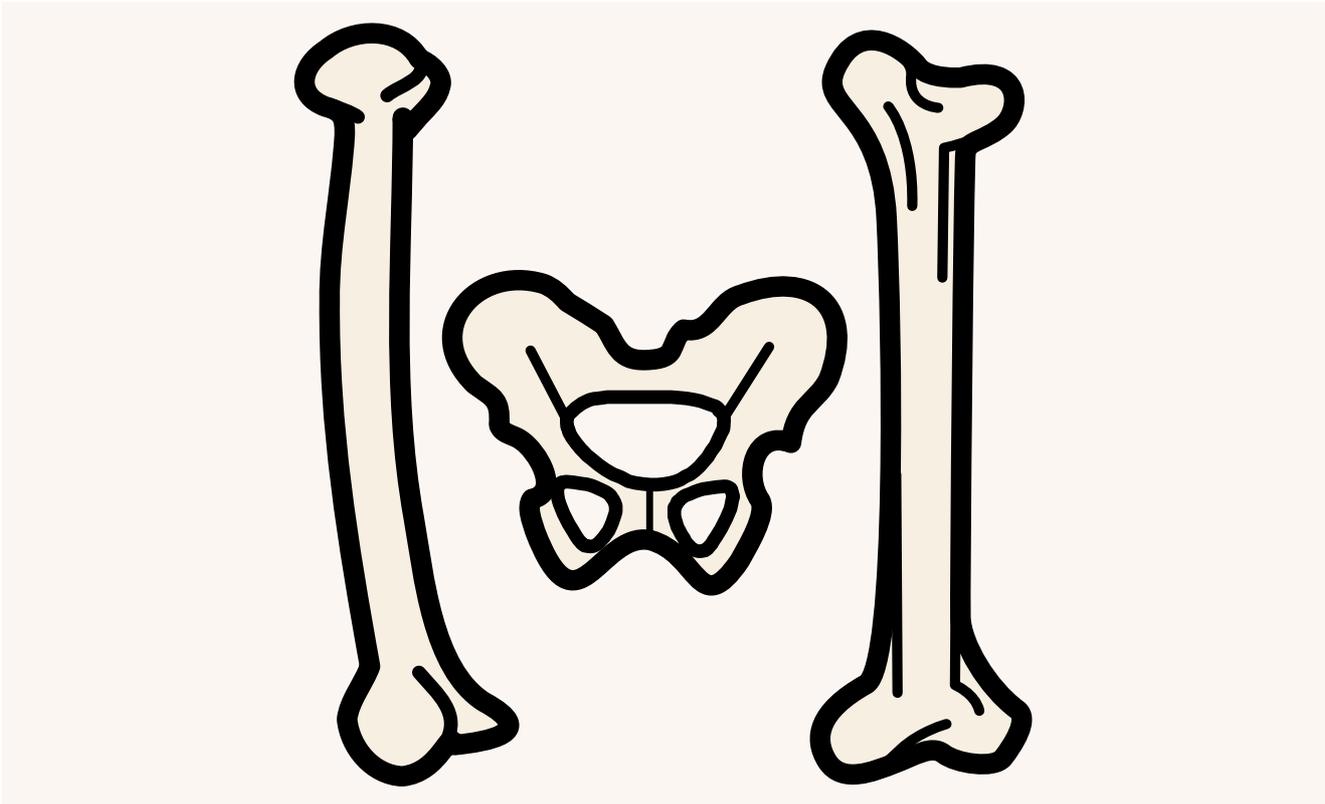
many



solid

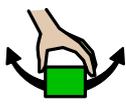


materials.



X-rays

are



used

by



doctors

and



dentists.

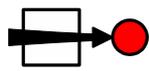


X-rays



can

pass through



the

soft tissue

of

our bodies.

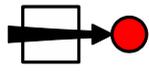


X-rays



cannot

pass through



bones



or

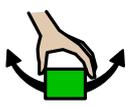


teeth.



X-rays

are



used

to

photograph our



bones

and



teeth.



X-rays



were

discovered

by



Wilhelm Röntgen

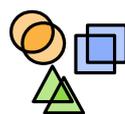
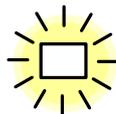
in

1895.

1895.

X

=



The

X

was

because

it was

a new

type

of

energy.



Röntgen



received

a



Nobel Prize

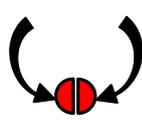
for his



discovery.

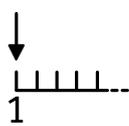


Röntgen



made

the

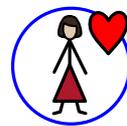


first



x-ray

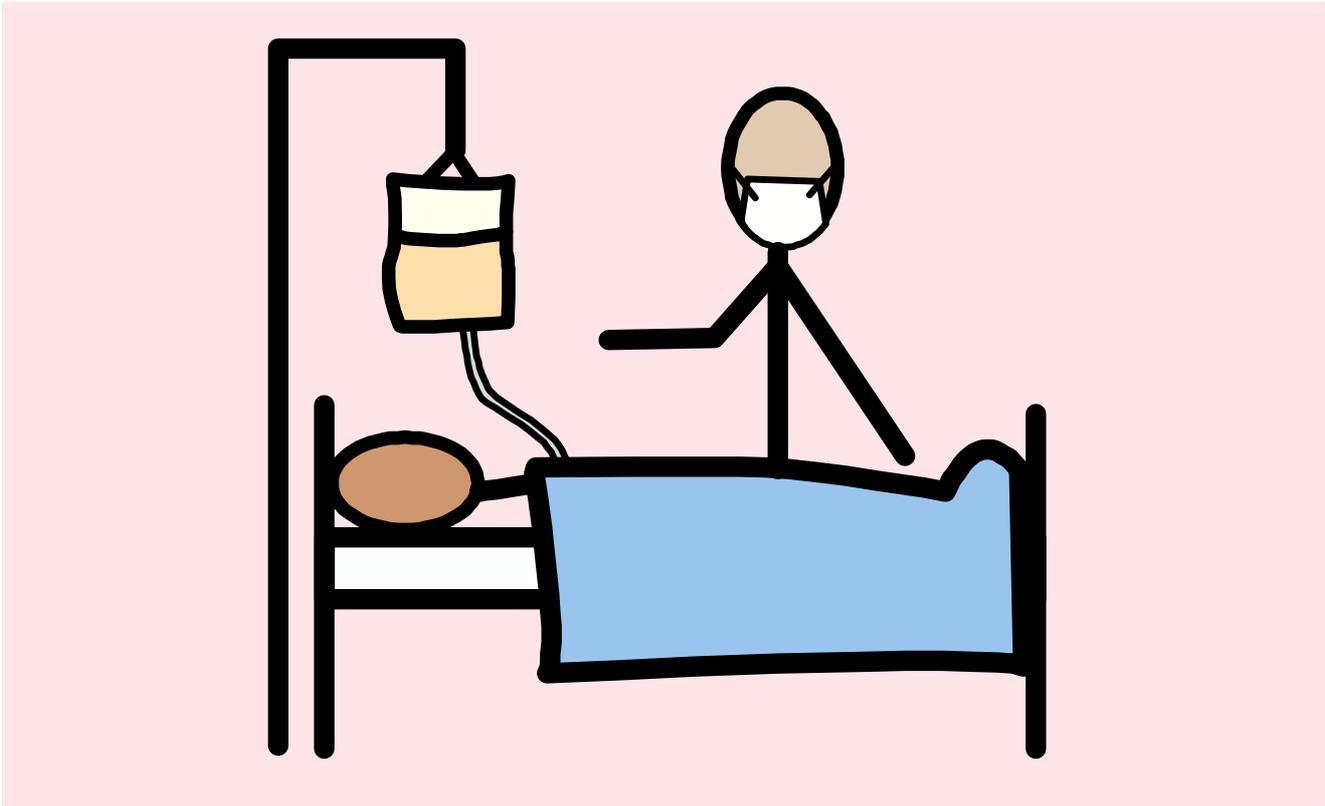
of his



wife's



hand.



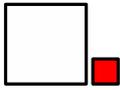
In 1914 Marie Curie developed x-ray vans.

Marie helped treat soldiers during World War 1.

X-rays showed the location of fractures and bullets.

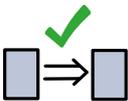
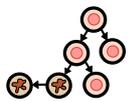
This helped doctors operate.



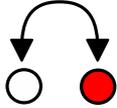
There are  small  amounts of  x-rays in the  air.

 X-rays  can  damage  living  cells.

 Too much  x-ray  radiation  can  be dangerous.

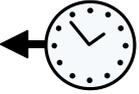
 Too much  x-ray  radiation  can  cause  cancer.



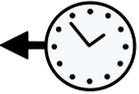





 Your doctor or dentist may ask for an x-ray.




 Having an x-ray is safe.



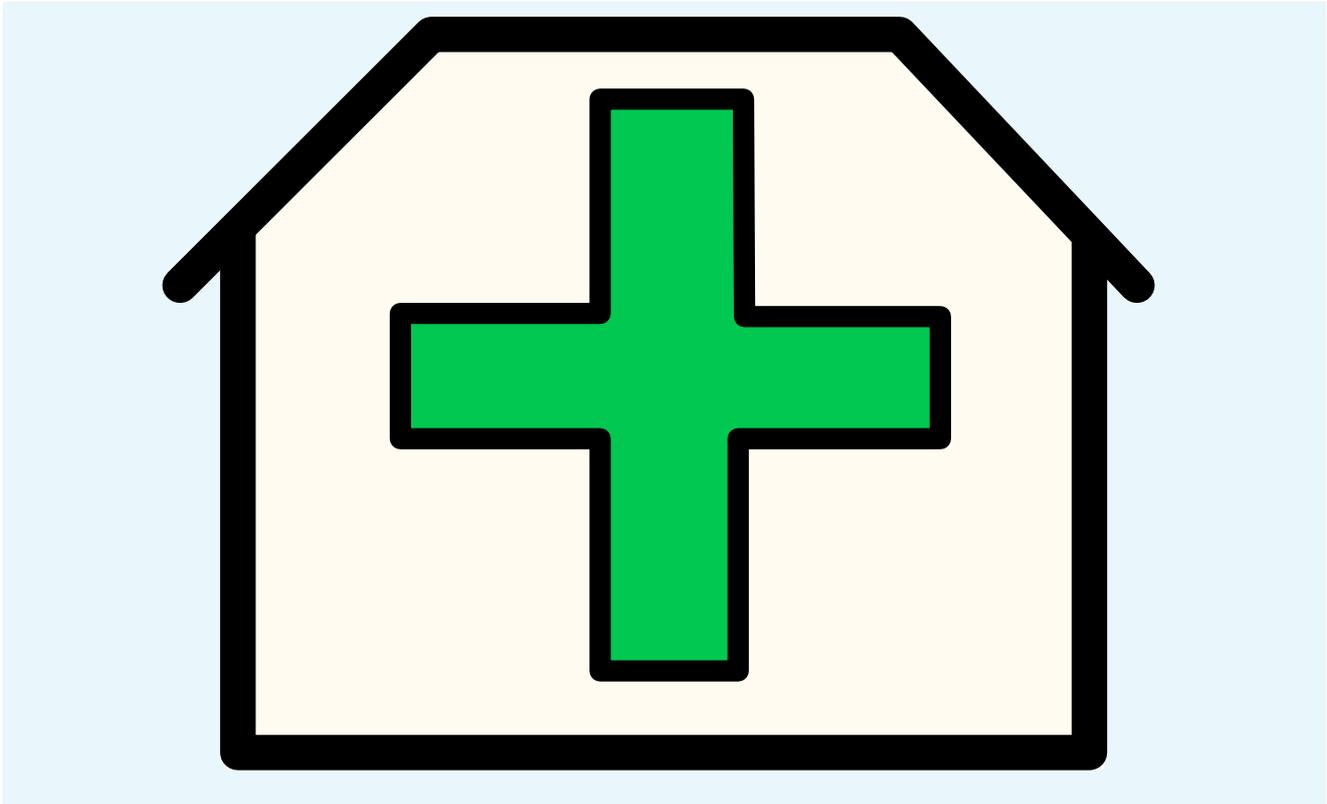


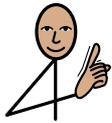
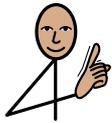
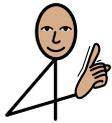
 Having an x-ray does not hurt.



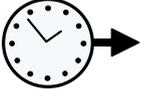
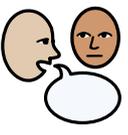
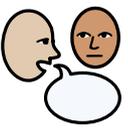


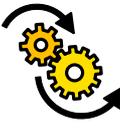

 X-rays help the doctor find injuries.



 You  may  have to  go to a  hospital  for an  x-ray.

 Reception  can  help  you  find  the  x-ray department.

 The  radiologist  will  talk to  you  about the  x-ray.

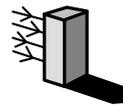
 A  radiologist  operates  the  x-ray machine.



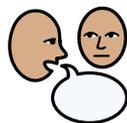
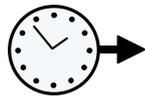
You may have to wear a hospital gown.



This is because your clothes would block the x-ray.

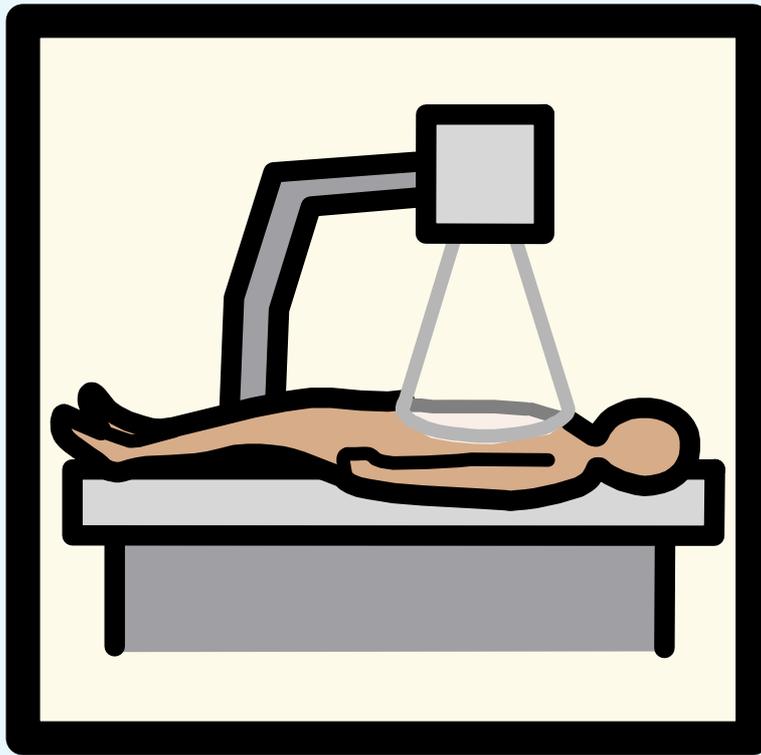


The radiologist will tell you what to do.

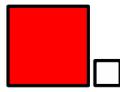


If you become worried you can ask for a break.

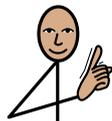
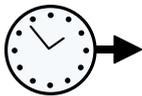




The x-ray room has large machines.



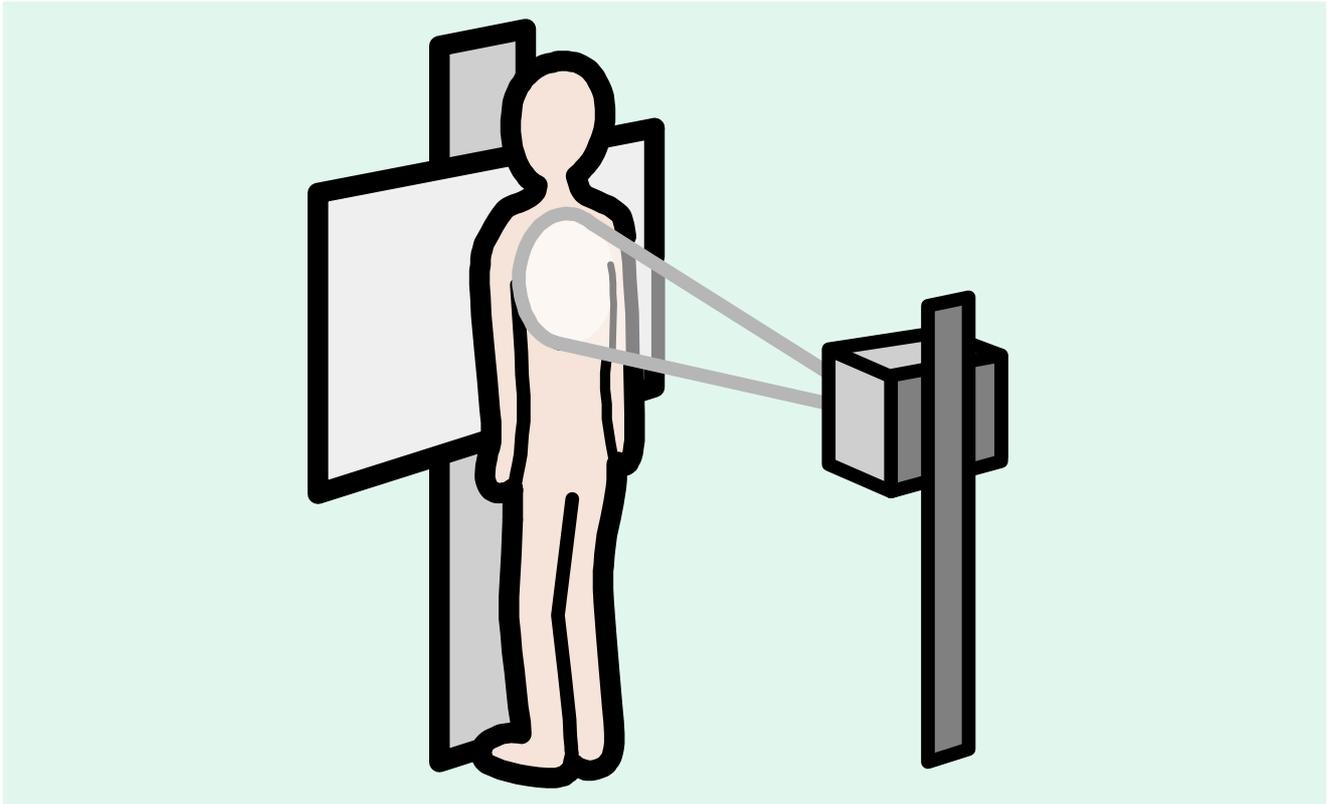
An x-ray machine takes pictures inside your body.



You will need to be very still.



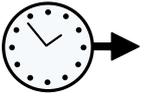
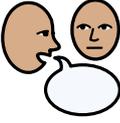
Try not to move whilst the x-ray is taken.



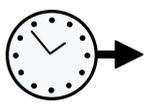
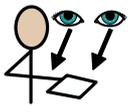




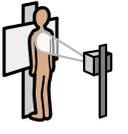
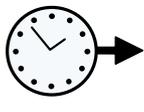
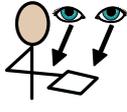
 You may be asked to stand for a chest x-ray.

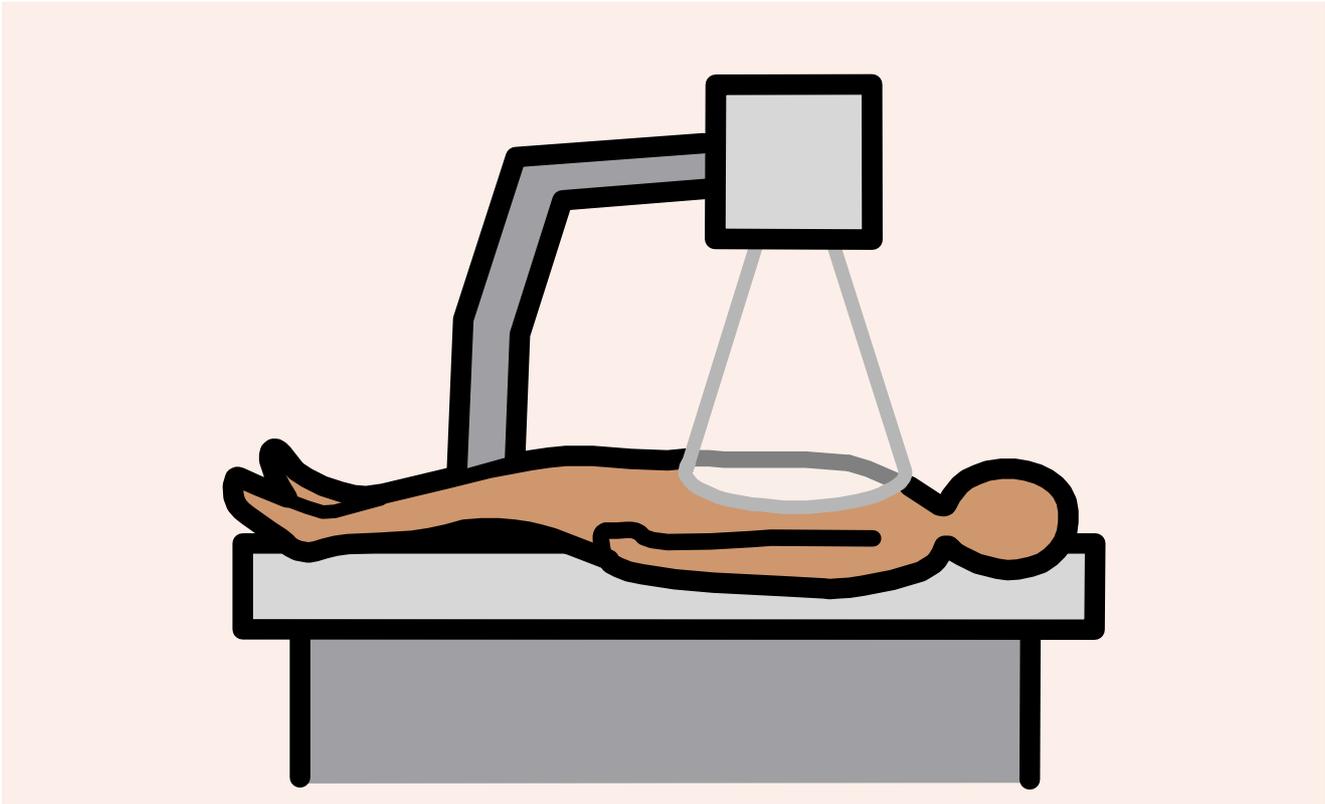
 The radiologist will tell you what to do.

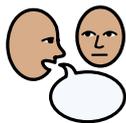
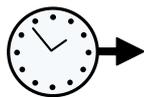

 A chest x-ray will show your spine and ribs.

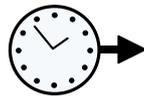
 A chest x-ray will also show your lungs.



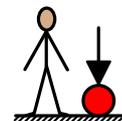
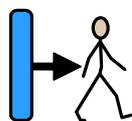
You may be asked to lie on a bed.



The radiologist will tell you where to lie down.



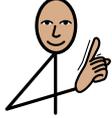
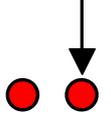
The machine will be moved into right position.

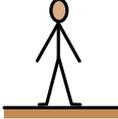


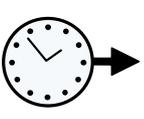
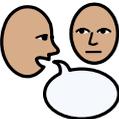
The radiologist will leave but your family can stay.

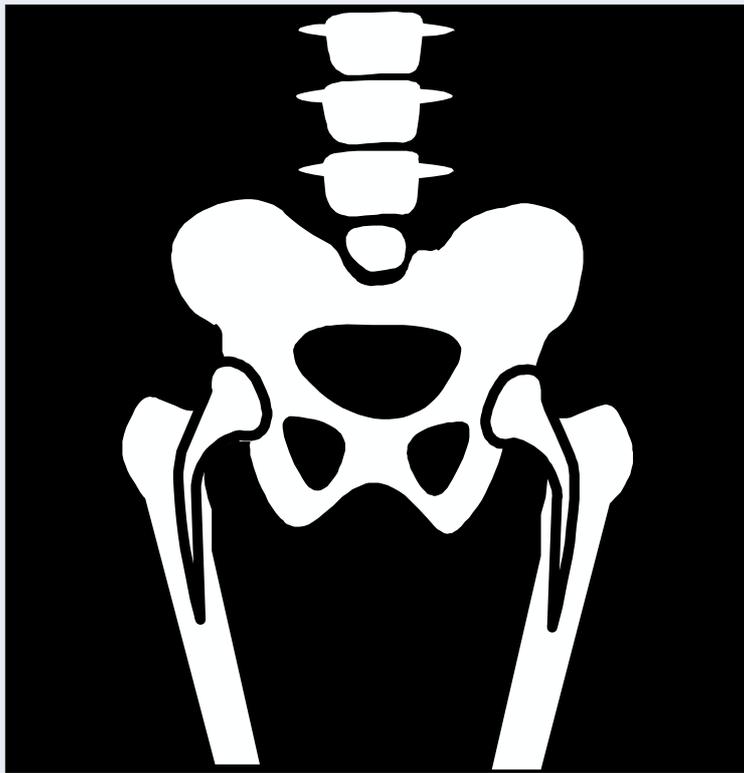


The  radiologist will  return after  the  x-ray is  taken.

You  may  have to  have another  x-ray  taken.

You  may  need to  sit or  stand a  different  way.

The  radiologist will  tell  you what to  do.



X-rays



can



photograph



many



parts of your body.



You

may

have an

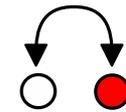


x-ray

of your



arm



or



wrist.



You

may

have an

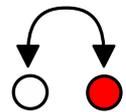


x-ray

of your



leg



or



ankle.



You

may

have an

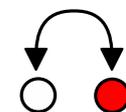


x-ray

of your



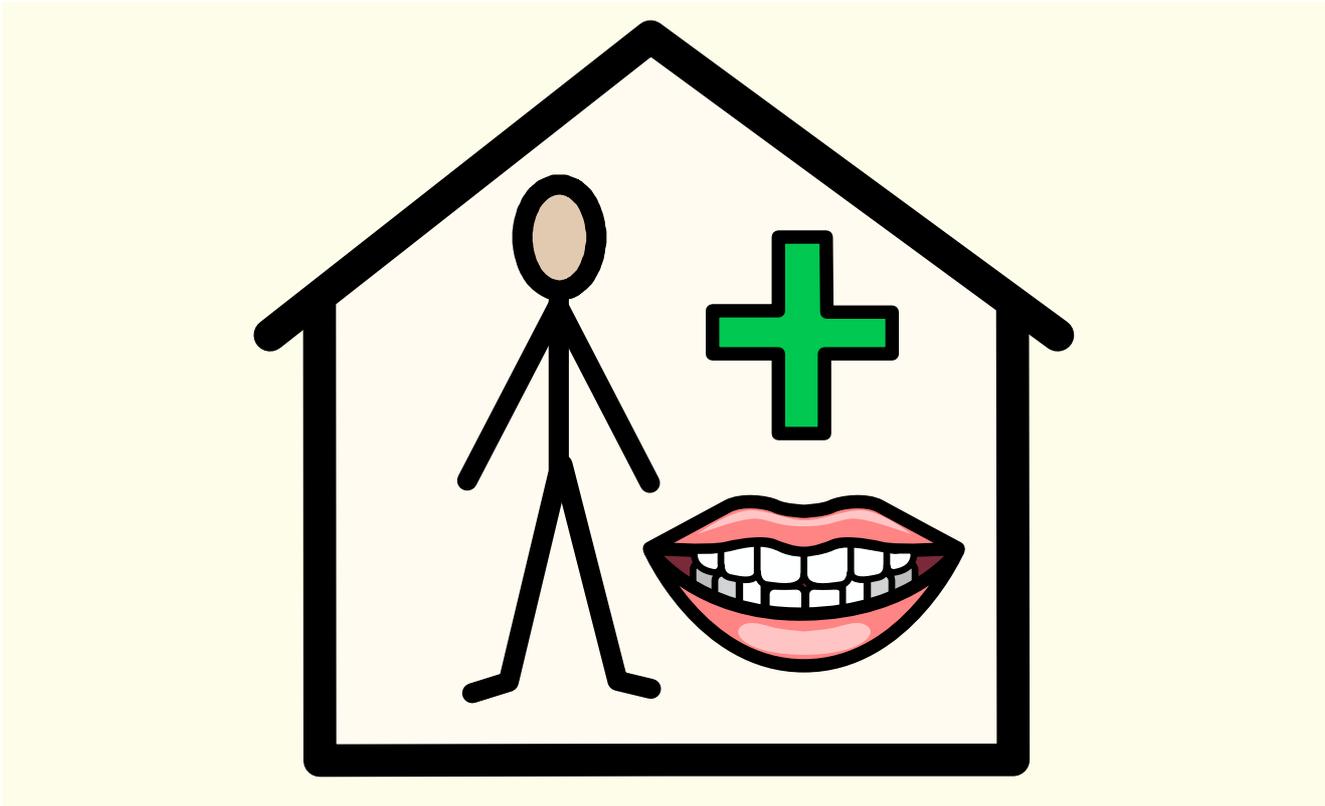
hip



or



chest.



You may be asked to have an x-ray at the dentist.

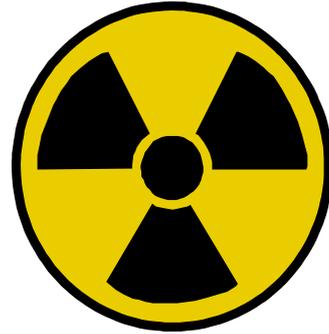
The dentist will place a mouthpiece in your mouth.

They will ask you to bite down on the mouthpiece.

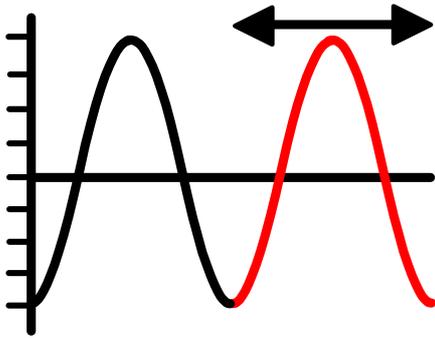
The dentist will then take the x-ray of your mouth.



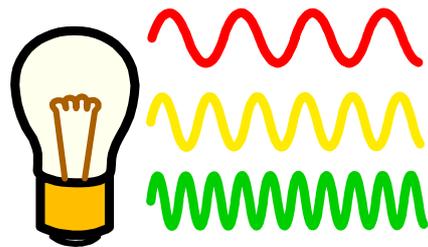
x-rays



radiation



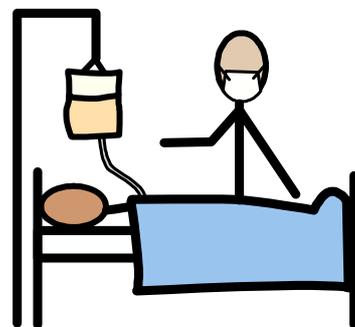
wavelength



visible light



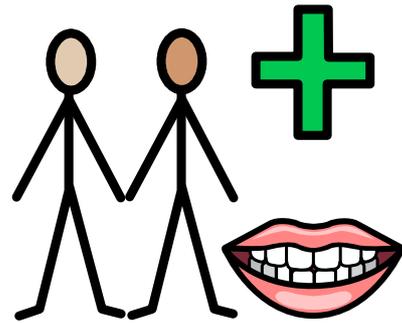
treat



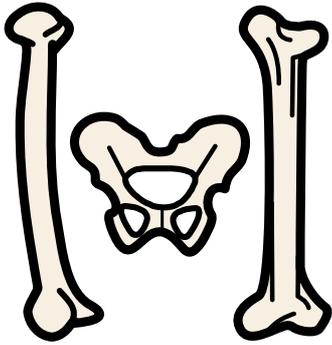
operate



doctors



dentists



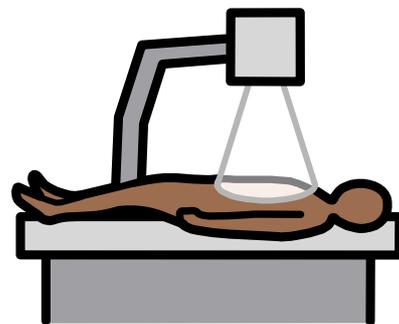
bones



teeth



x-ray



x-ray machine