



X-rays

Symbol Book

X-rays

Symbol

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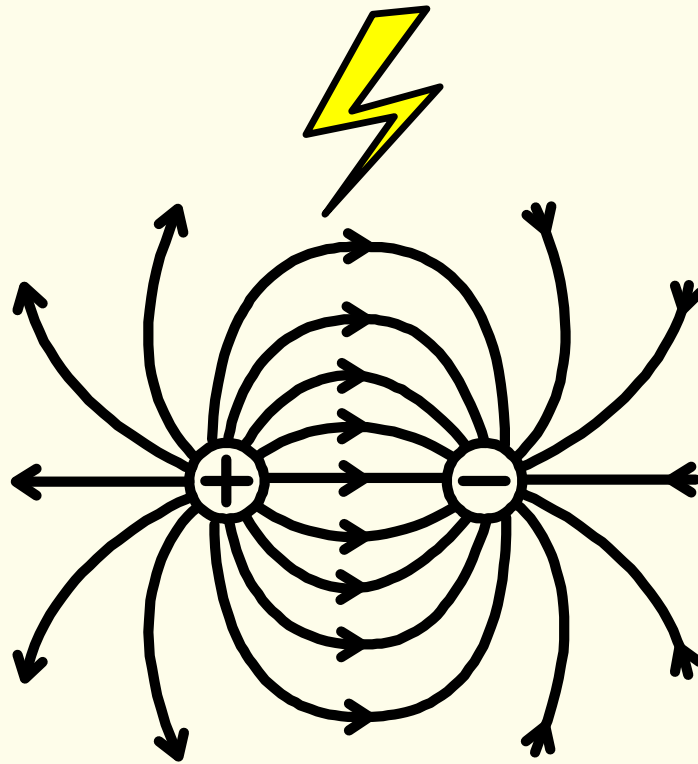
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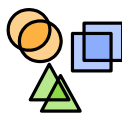
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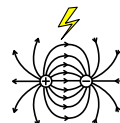
X-rays



are a

type

of



electromagnetic

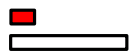


radiation.

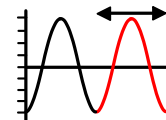


X-rays

have a



shorter



wavelength

than



visible light.



X-rays

have



more



energy

than

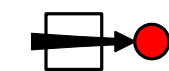


visible light.



X-rays

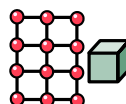
can



go through



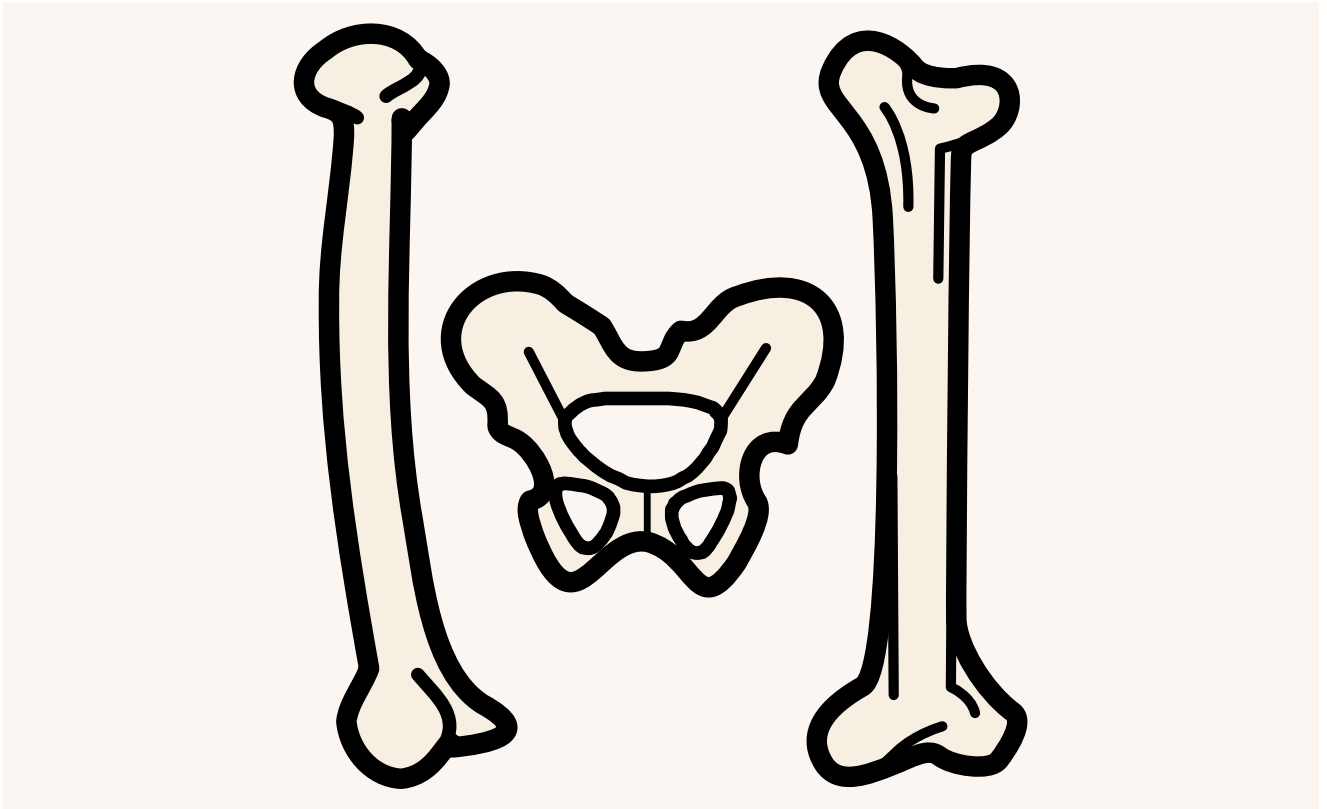
many



solid



materials.



X-rays

are



used

by



doctors

and



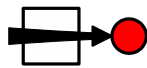
dentists.



X-rays



can



pass through

the



soft tissue

of



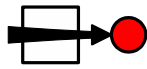
our bodies.



X-rays



cannot



pass through



bones



or



teeth.



X-rays

are



used

to



photograph our



bones



and



teeth.



X-rays



were

discovered

by



Wilhelm Rontgen

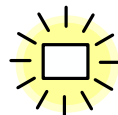
in

1895

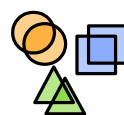
1895.

X

=



a new



type



of

energy.



Rontgen



received

a



Nobel Prize

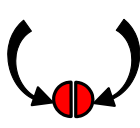
for his



discovery.

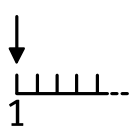


Rontgen



made

the

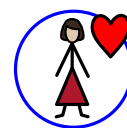


first



x-ray

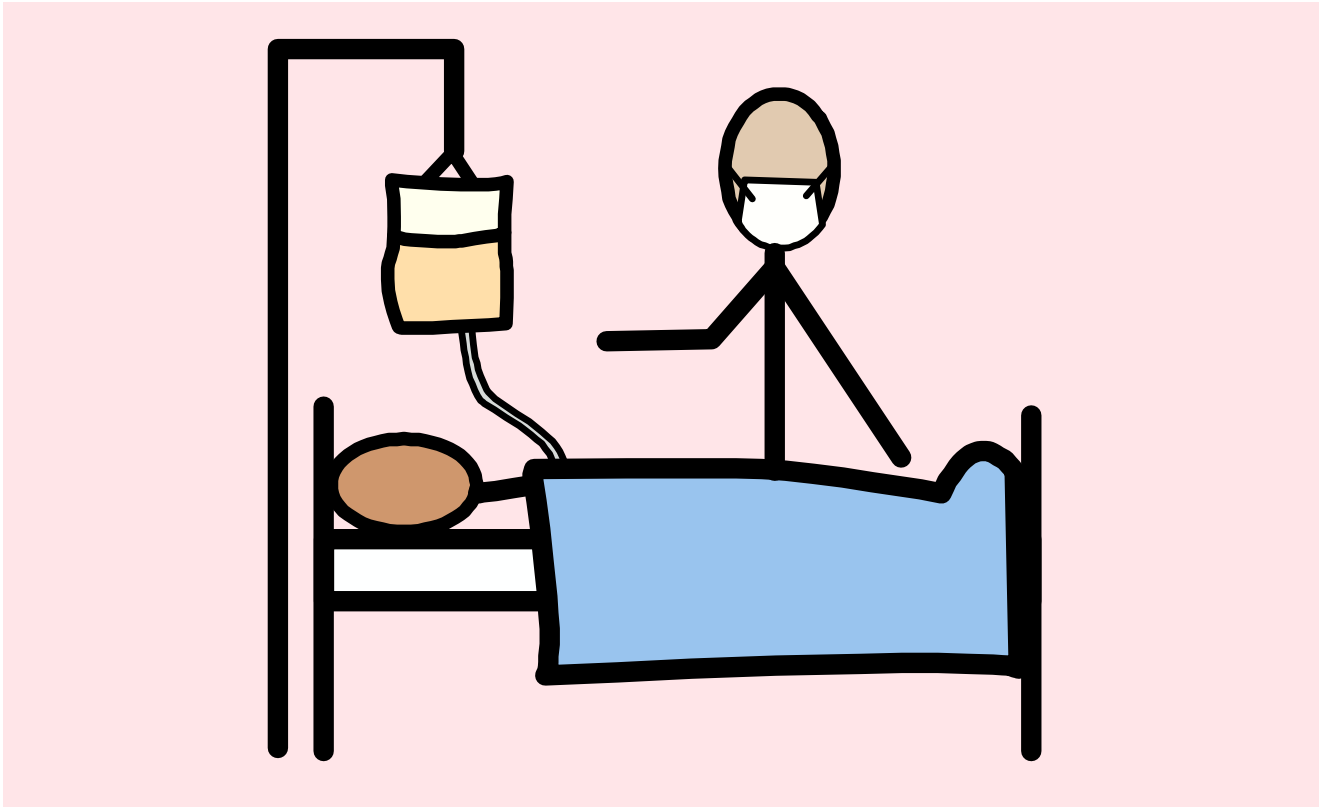
of his



wife's



hand.

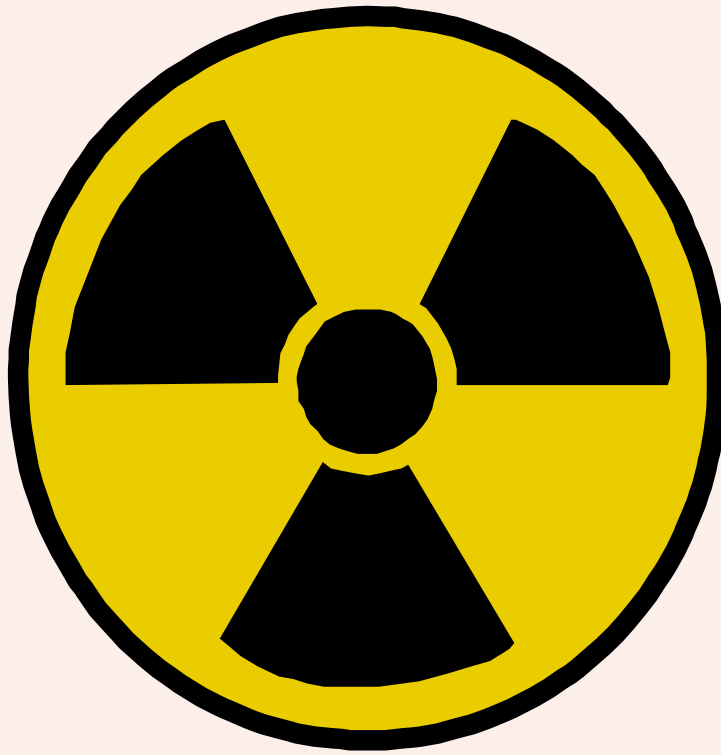


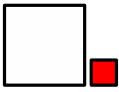



In 1914 Marie Curie developed x-ray vans.

Marie helped treat soldiers during World War 1.

X-rays showed the location of fractures and bullets.

This helped doctors operate.




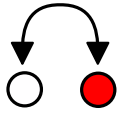



There are  small  amounts of  x-rays in the  air.

 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.








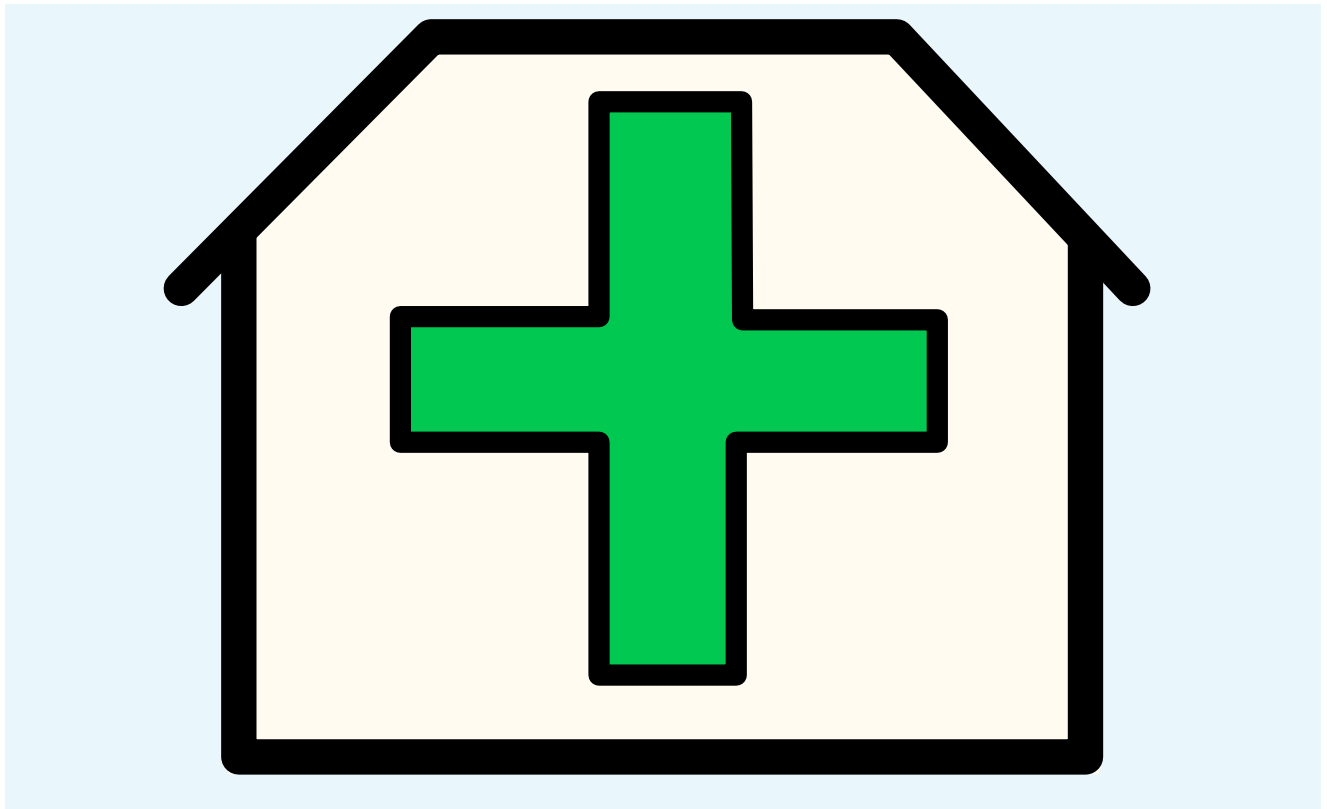

 Having an x-ray is safe.





 Having an x-ray does not hurt.










 X-rays help the doctor find injuries.



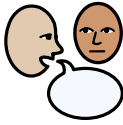
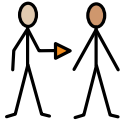




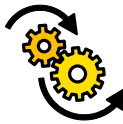





 You may have to go to a hospital for an x-ray.

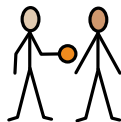




 Reception can help you find the x-ray department.






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

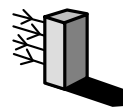



 A radiologist operates the x-ray machine.



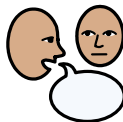
You may have to wear a hospital gown.



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

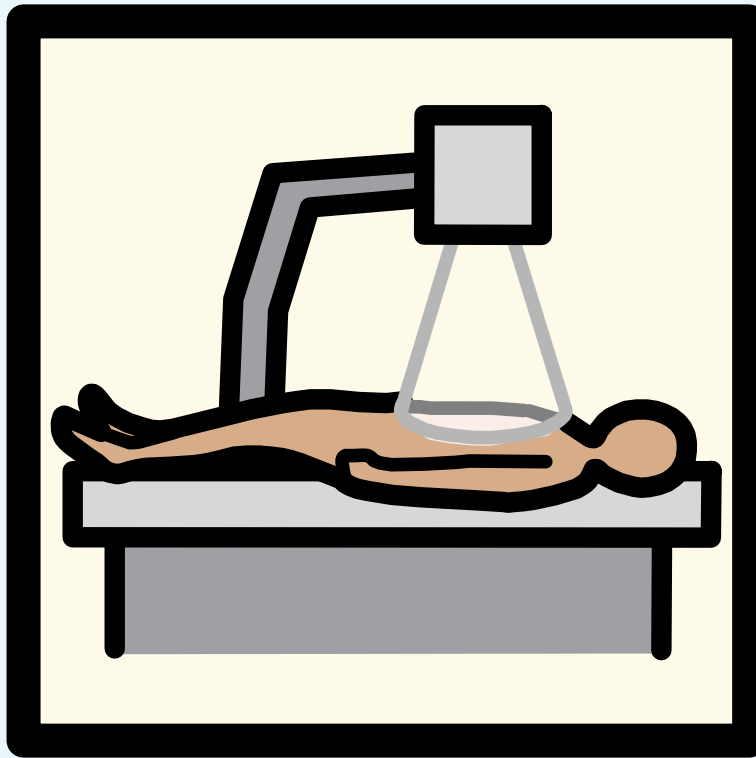


The radiologist will tell you what to do.

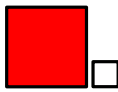


If you become worried you can ask for a break.

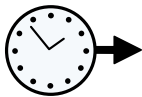




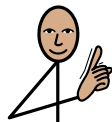
The x-ray room has large machines.



An x-ray machine takes pictures inside your body.

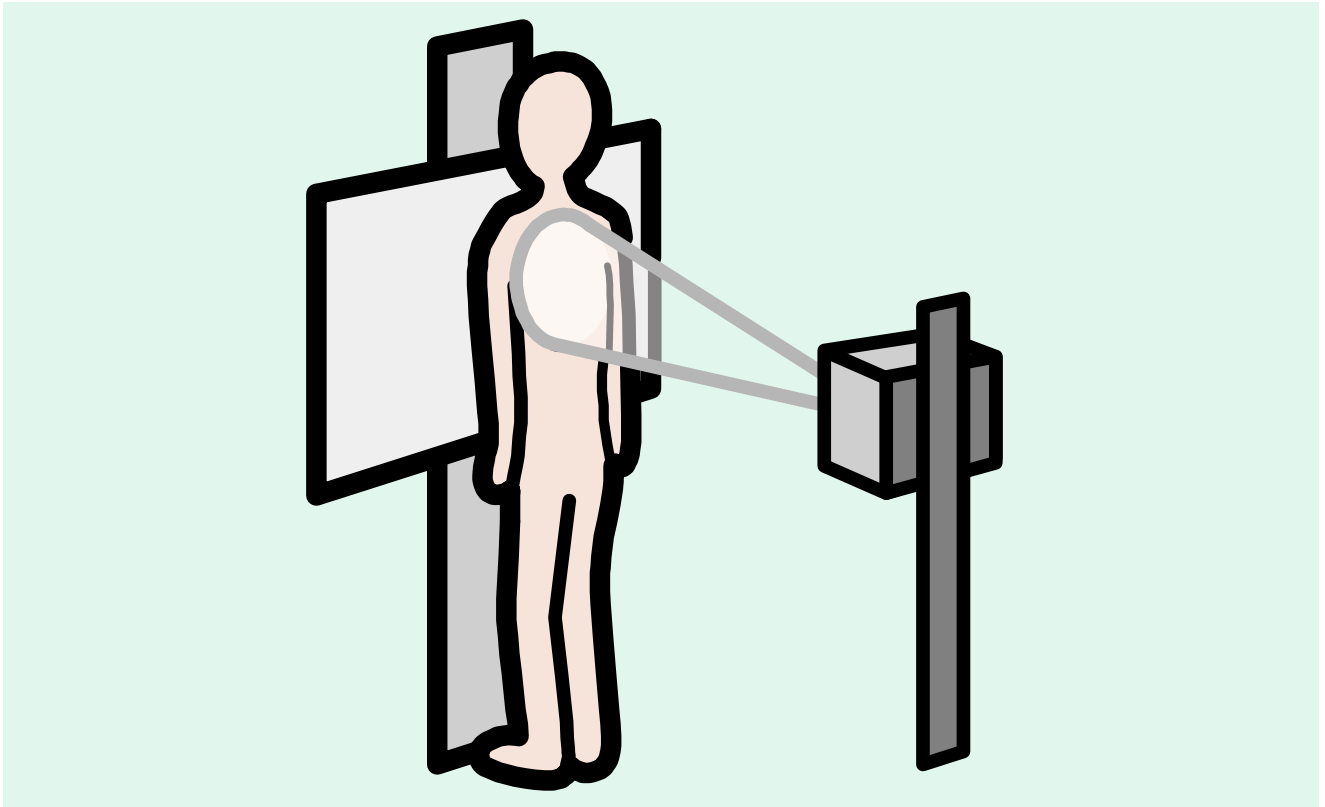



You will need to be very still.


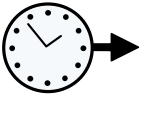
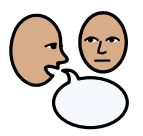



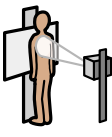
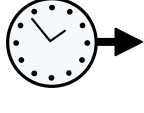
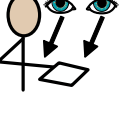
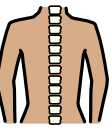

Try not to move whilst the x-ray is taken.

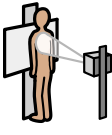
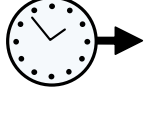
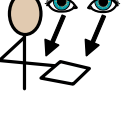



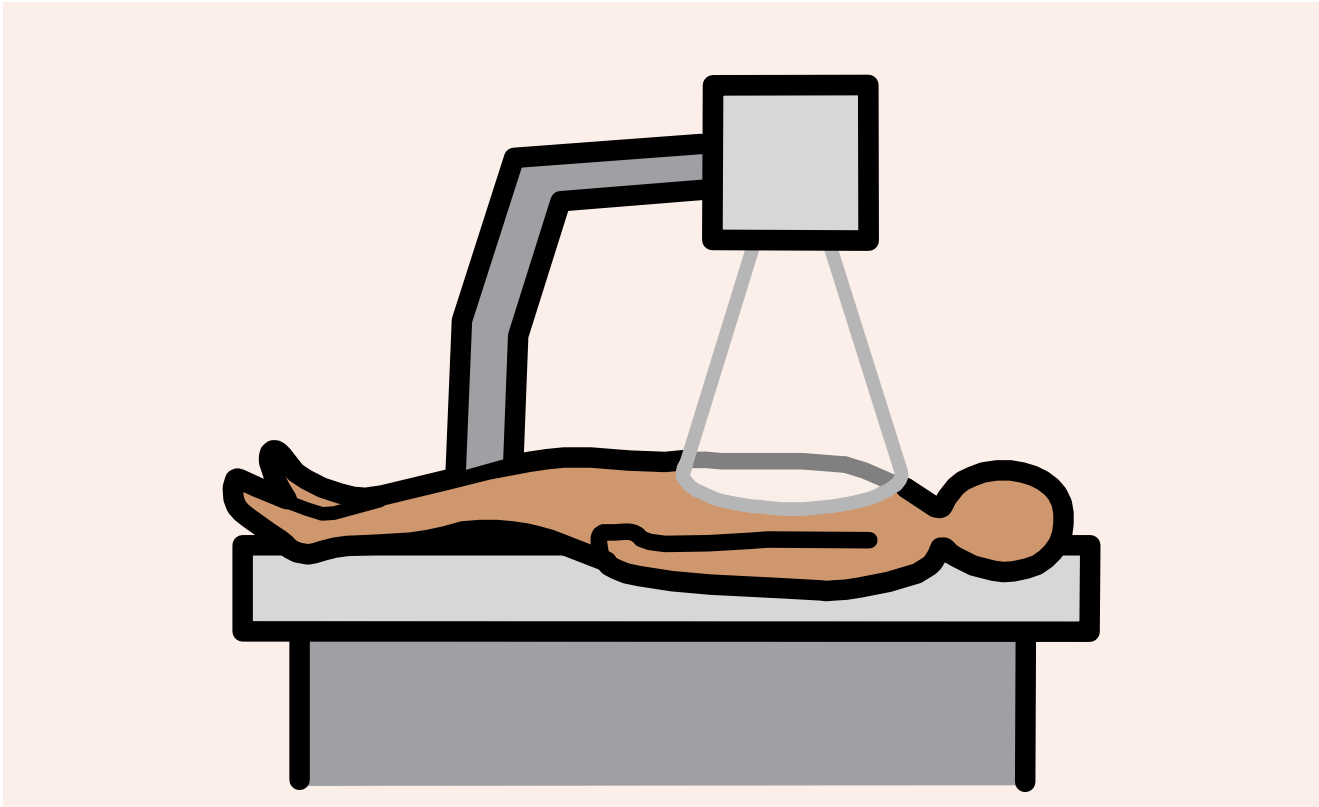




 You may be asked to stand for a chest x-ray.





 The radiologist will tell you what to do.



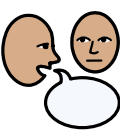
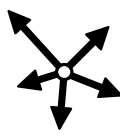
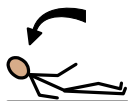





 A chest x-ray will show your spine and ribs.



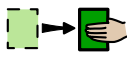






 A chest x-ray will also show your lungs.


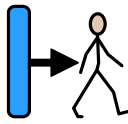

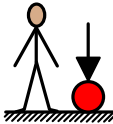




 You may be asked to lie on a bed.







 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.

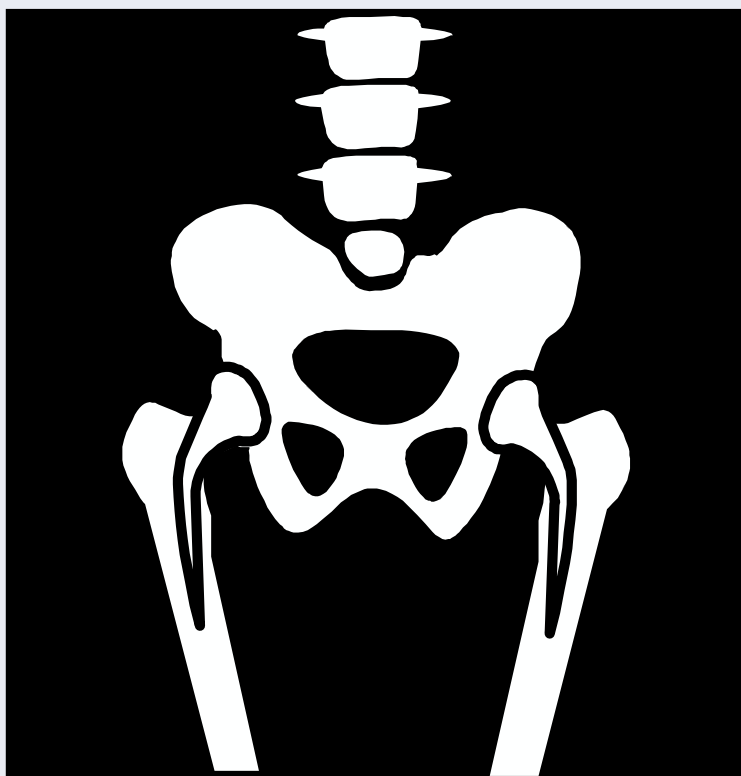



 The radiologist will return after the x-ray is taken.


 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.
 



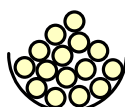
X-rays



can



photograph



many



parts of your body.



You

may

have an

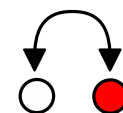


x-ray

of your



arm



or



wrist.



You

may

have an

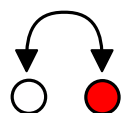


x-ray

of your



leg



or



ankle.



You

may

have an

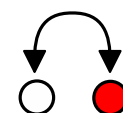


x-ray

of your



hip



or



chest.



You

may

be



asked

to have an



x-ray

at the



dentist.



The

dentist

will



place

a



mouthpiece



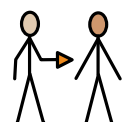
in your mouth.



They



will ask



you to



bite down



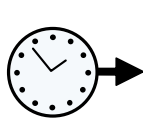
on the mouthpiece.



The

dentist

will



then



take

the



x-ray

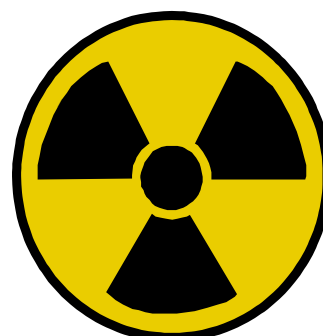
of your



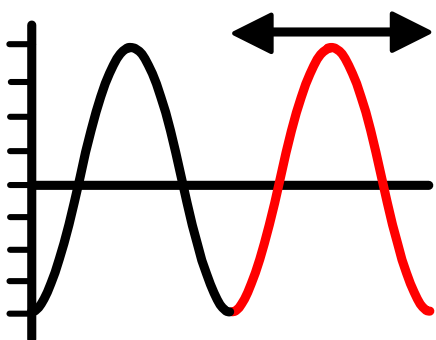
mouth.



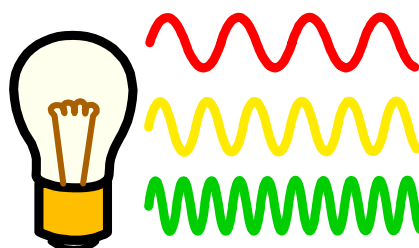
x-rays



radiation



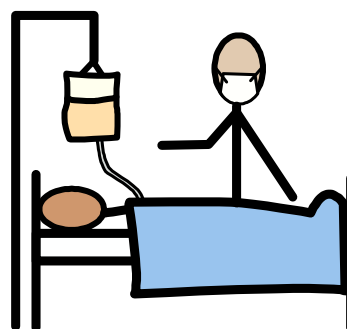
wavelength



visible light



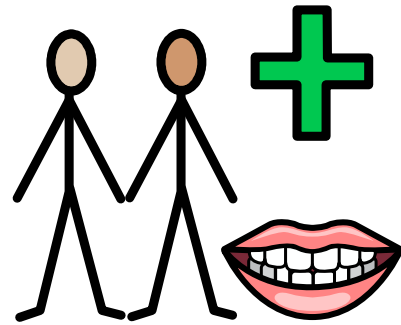
treat



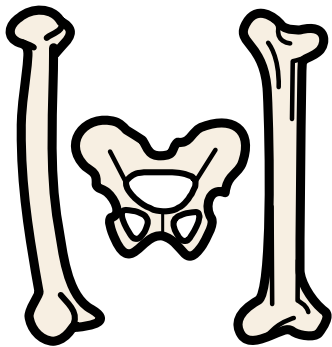
operate



doctors



dentists



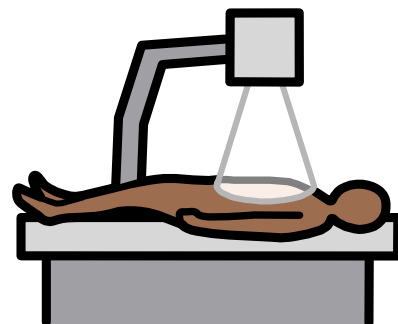
bones



teeth



x-ray



x-ray machine