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kind of super-  
powerful version  
of ordinary  
light: a higher-  
energy form of  
electromagnetic  
radiation that  
travel at the  
speed of light  
in straight  
lines (just like  
light waves do).

*What are X rays?*

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*Explain that*

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at the bones and  
can be used to  
help detect a  
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Although anatomy  
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is complicated,  
many structures  
are not clearly  
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radiograph of  
the abdomen, and  
therefore cannot  
be fully

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approach to  
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interpretation  
is therefore  
relatively  
straightforward  
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powerful waves  
of energy. Like

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light, X-rays  
are a form of  
radiation. They

are very useful

because they can  
go through

substances that  
light cannot. X-

rays can show  
images, or

pictures, of the  
inside of an

object, such as  
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crystallography  
is a scientific  
method used to  
determine the  
arrangement of  
atoms

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concepts used in  
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and rather short  
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spectroscopy (XAS) and its application to homogeneous transition metal compounds and catalysts. An XAS spectrum is composed of two regions, XANES

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and EXAFS, which  
provide element-  
specific  
information on  
formal oxidation  
state and local  
coordination  
environment,  
respectively.

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An x-ray beam gets attenuated on the way out by the target material itself causing a decrease in intensity gradually from the cathode to anode direction as there is more of the target

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travel through.  
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Therefore, the  
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cathode side  
Applications  
should be placed  
over the area of  
greatest density  
as this is the  
side with the  
most penetrating  
beam.

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rays*

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# about two-

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ray diffraction,

such as geometry

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in various  
applications,  
including phase  
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