

## X-RAYS - KEY

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1. What are x-rays? **high energy waves that are invisible**
2. In which fields are x-rays used? Give a few examples. **medicine – to see bones and organs inside the human body, airport security, in space to see faraway objects**
3. Who discovered x-rays? **Wilhelm Roentgen**
4. Why did he call them x-rays? **because he hadn't seen something like that before and "x" in mathematics stands for something unknown**
5. What do bones look like in x-ray pictures? **white areas**
6. What is CT and what is it use for? **computed tomography – gives a better and clearer picture of bones and organs that x-rays cannot**
7. What is a scanner? **a large tube-shaped machine in which you are x-rayed from all sides**
8. How must people and doctors protect themselves from harmful x-rays? **patients and doctors must wear protective clothes; doctors must stand behind screens**
9. Why are x-rays used to fight cancer? **x-rays can destroy cancer cells**
10. Why do x-ray telescopes orbit the Earth? **x-rays are absorbed by the Earth's atmosphere, telescope in space can see things that Earth telescopes cannot**