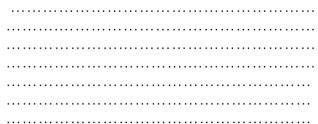
X-Rays



1) a) What differences can you see between the two x-ray images?



- b) What year was x-ray 1 taken in? circle your answer 1795 1895 1995
- c) Label a knuckle in each image
- d) What is the feature marked in the left image?

2) <u>Radiotherapy</u>- fill in the gaps in the paragraph below using the words in the box

×	healthy dose	dividing	tumour	· kill
	cancerous	DNA 2	X-rays	irradiating



X-rays and other radiation can damage the ____ in cells and kill them. Cells which are _____ rapidly are more likely to be killed, so we use x-rays to _____ the rapidly-dividing _____ cells. We must make sure that _____ tissue is undamaged. A linear accelerator generates _____. It rotates around the body, _____ the tumour from all directions.

This means the

is the _____ receives a higher ____than the healthy tissue.

3) R А S Ι S Ο Т Μ Ι L Е Radiotherapy С D Т V Т D Т Ν G 0 U Μ Treatment, Plan А С Ν D Ο Μ Е А А Х Е Dose, Limit S Х S R G D мн Ν R Cells, Dividing Y Ρ R Е А Н Т Ο D А R Mitosis, Meiosis Ρ S L С Υ G A C L Y Μ DNA, Damage А С T Ν A A А ΕMV U Α D Linac, X-ray Е R C G D M N L 0 Gamma, Irradiate А J С L ΜE L Ο Т Х Е Н А Cancer Μ А R S Т R U Ο Μ U Т Т Tumour G S Т S 0 Е Е R Е Т Μ Ν