X-Rays Worksheet

A History (cloze). Read the text and complete the missing words.

Medical radiology has now existed for over a century. It all started in 1895 when Wilhelm Roentgen discovered xrays. On 28 December 1895 his manuscript 'On a New Kind of Rays' ____ (1) submitted to the Wurzburg Physical medical Institute. The essential features of x-rays were described and the new discovery aroused tremendous interest. Because the apparatus was available ____ (2) most physics departments, his results could easily ____(3) repeated.

At the start, the radiographs were made onto glass photographic plates; George Eastman introduced film in 1918. In recent years there has been a digital revolution and radiographic images are now recorded and stored digitally.

Most of the early x-ray work was performed _____(4) doctors and the departments were often combined with electro-therapeutic departments. However, from about 1903 lay x-ray operators were appointed _____(5) assistants. Training courses _____(6) set up and the Society of Radiographers _____(7) formed in 1920.

X-rays were used ____ (8) therapy from the earliest times. The techniques depended _____ (9) the development of more powerful apparatus, the use of multiple therapy beams and on the use of radium. The doctors in the x-ray department were involved in _____ (10) therapy and diagnosis. It was only _____ (11) the 1930s that doctors were appointed with specific interests in diagnosis or therapy.

B Vocabulary

Choose the correct word or phrase to complete each sentence. Look at A and B opposite 37.1 to help you.

- 1 In radiography, barium is used as a contrast (image/medium).
- 2 Tissue which absorbs radiation and appears white on an X-ray is (radiolucent/radiopaque).
- 3 An (enema/injection) is a liquid introduced into the bowel by way of the anus. 4 X-rays used to measure the progress of a disease are called (repeated/serial) X-rays.
- 5 If a patient moves during an X-ray, the image may be (blurred/abnormal).
- 6 It's easier to see abnormalities when the lungs are (deflated/inflated).
- 37.2 Complete the words. Each begins with radio. Look at A and B opposite to help you.
 - 1 Using radiation to diagnose and treat disease is radio......
 - 2 Using radiation to make images is radio......

 - 3 Using radiation to provide treatment is radio......
 - 4 If something is not penetrable by radiation, it is radio......
 - 5 If something is penetrable by radiation, it is radio......
 - 6 A technician who administers X-rays is a radio.......

C Equipment – C-arm tutorial:

C1 Match the verbs with the nouns

1 push/hit	a) the C-arm
2 turn	b) the picture
3 unlock	c) a tilt
4 take	d) the button
5 save/flip	e) the handle
6 pull/rotate	f) a snapshot
7 make	g) the foot brake

C2 Watch the video and answer the following questions

1 What is the purpose of the video?

- 2 What is the first thing to do when using the machine?
- 3 What kind of profiles are displayed?
- 4 What are the functions of the yellow and green buttons?
- 5 What is the function of the first two locks?
- 6 What two types of tilt are mentioned?
- 7 What happens if the footbrake is in a flat position?
- 8 What is the wig-wag used for?

D X-ray examination

37.3 Complete the radiographer's instructions.

E Grammar Corner

4.1 Put the verb into the correct form, present continuous or present simple.

- 1 Are you hungry? Do you want (you / want) something to eat?
- 2 Don't put the dictionary away. (I / use) it.
- 3 Don't put the dictionary away. (I / need) it.
- 4 Who is that man? What (he / want)? 5 Who is that man? Why (he / look) at us?
- 7 She told me her name, but (I / not / remember) it now.
- 8 (I / think) of selling my car. Would you be interested in buying it?
- (you / not / use) it very often.

A Read sentences 1–8. If they are correct, put a tick. If they are incorrect, correct them.

- 1 I have to get up early tomorrow, because my plane leaves at 6 a.m.
- 2 Do you go to Tom's party this weekend?
- 3 My neighbours drive me mad! They're always playing really loud music.
- 4 Mrs Davies usually teaches Spanish, but this term she teaches Italian Instead.
- 5 My dad is always wearing a smart sult to work, but at home he's often wearing a dreadful purple tracksult!
- 6 My cousin is a model. She flies to Paris next week for a fashion shoot.
- 7 How are you usually celebrating your birthday?
- 8 I'm taking an evening course in art at the moment. It's really good fun!