

X-rays Quiz Answer Key PDF

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Who discovered X-rays?

- A. Marie Curie
- B. Wilhelm Conrad Roentgen ✓**
- C. Albert Einstein
- D. Thomas Edison

What is the primary use of hard X-rays?

- A. Radio broadcasting
- B. Medical imaging ✓**
- C. Cooking
- D. Heating

Which part of the X-ray tube is responsible for producing X-rays?

- A. Anode ✓**
- B. Cathode
- C. Filament
- D. Glass envelope

Which of the following are applications of X-rays? (Select all that apply)

- A. Medical imaging ✓**
- B. Television broadcasting
- C. Crystallography ✓**
- D. Welding inspection ✓**

Which advancements have improved X-ray technology? (Select all that apply)

- A. Digital X-ray systems ✓**
- B. Portable X-ray machines ✓**
- C. Analog film processing
- D. AI in image analysis ✓**

What type of radiation are X-rays classified as?

- A. Ultraviolet
- B. Infrared
- C. Electromagnetic ✓**
- D. Microwave

What is the main risk associated with X-ray exposure?

- A. Hearing loss
- B. Cellular damage ✓**
- C. Skin irritation
- D. Weight gain

In which year were X-rays discovered?

- A. 1895 ✓**
- B. 1901
- C. 1910
- D. 1925

Which of the following is NOT a use of X-rays?

- A. Diagnosing bone fractures
- B. Treatin bacterial infections ✓**
- C. Airport security scanning
- D. Analyzing crystal structures

Which material is commonly used for shielding against X-ray radiation?

- A. Aluminum
- B. Copper

C. Lead ✓

D. Iron

Which of the following are types of X-rays? (Select all that apply)

A. Hard X-rays ✓

B. Soft X-rays ✓

C. Gamma X-rays

D. Infrared X-rays

Which types of radiation are part of the electromagnetic spectrum? (Select all that apply)

A. X-rays ✓

B. Gamma rays ✓

C. Sound waves

D. Ultraviolet light ✓

What factors affect the quality of an X-ray image? (Select all that apply)

A. Contrast ✓

B. Resolution ✓

C. Noise ✓

D. Color saturation

What measures are used to protect against X-ray exposure? (Select all that apply)

A. Lead aprons ✓

B. Thyroid shields ✓

C. Sunglasses

D. Limiting exposure time ✓