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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

X-ray Interactions

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|  |  |  |  |  | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  | 7 |  |  |  |  |  | 8 |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  | 9 |  |  |  |  |  |  |  |  |  |  |  |
|  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 12 |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | 13 |  |  |  |  |  |  |  |  |  | 14 |  |  |  |
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|  |  |  |  |  |  |  | 15 |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | 16 |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  | 17 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Across****1.** The product of absorption and scattering**4.** X-rays that interact with the Nuclei**10.** Contrast used during UGI**12.** X-ray interactions with energy below approximately 10 keV**13.** Straight out of...**14.** \_\_\_\_\_\_\_\_\_ has an anatomic number of 13.8**15.** Probability of a Compton even is \_\_\_\_\_\_\_\_\_\_\_ proportional to the x-ray beam**16.** Differential absorption \_\_\_\_\_\_\_\_\_\_\_ as the kVp is reduced**17.** Produce the dark areas of a radiograph | **Down****2.** Which tissue x-ray interaction results in the production of annihilation radiation**3.** The ejection of a nuclear fragment is part of which interaction**5.** X-rays that interact with electrons**6.** X-rays that interact with the whole atom**7.** Anatomical structures with high x-ray absorption characteristics**8.** X-rays scattered back in the direction of the incident x-ray beam**9.** First name Bob, last name**11.** Quantity of matter per unit volume |