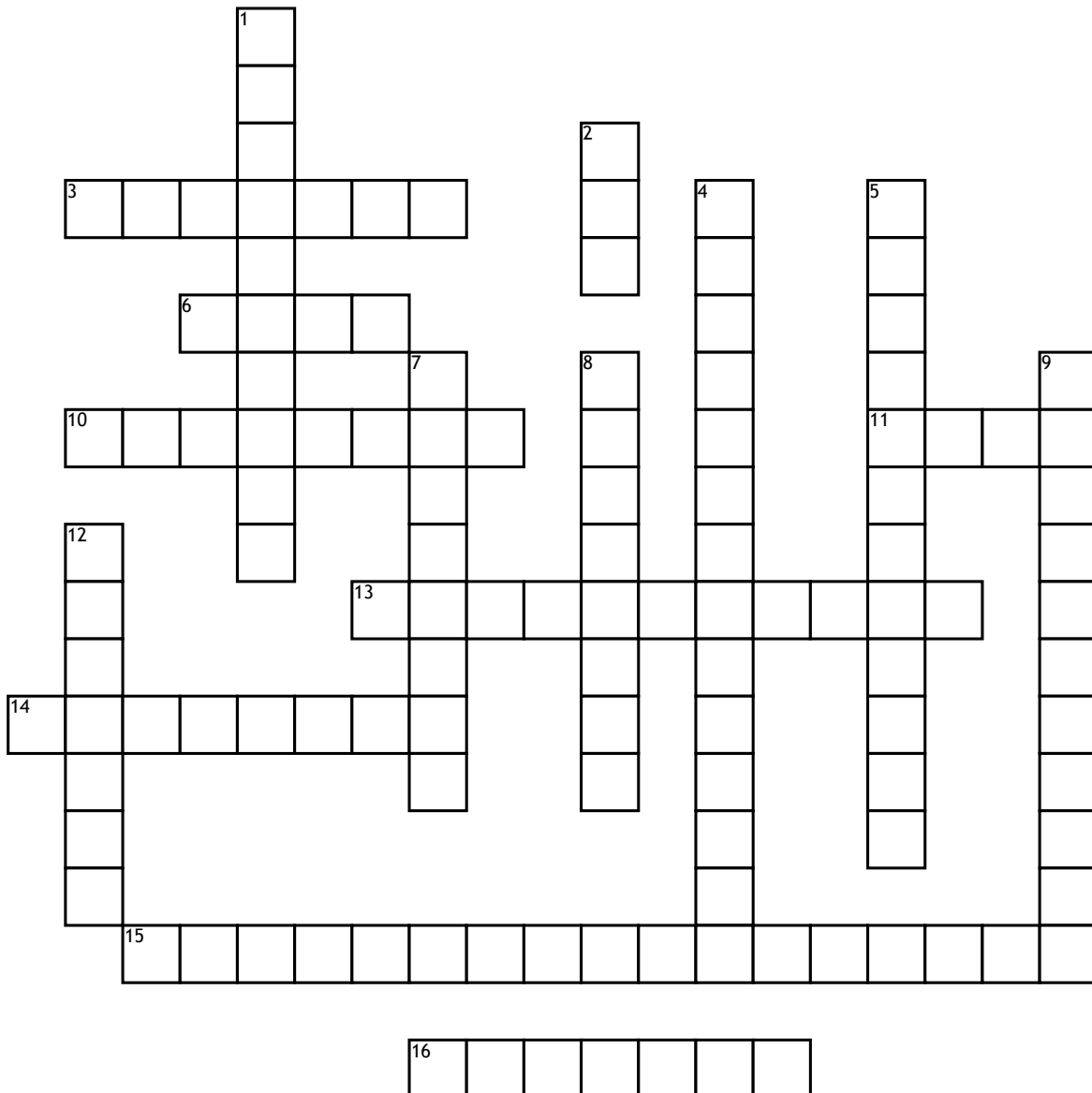


# X-Ray Interactions



**Across**

- 3. Produced by Compton interactions
- 6. The primary factor of quantity
- 10. Positive charged beta particle
- 11. Produced 99% of the time within x-ray production
- 13. Energy of x-ray photon must be \_\_\_\_\_ than the energy of the electron shell for Compton.

- 14. Main component to have an x-ray tube interaction
- 15. Occurs with extremely high energy photons of 10 MeV or greater
- 16. Electron interacts with this for pair production and photo disintegration.

**Down**

- 1. Reduce patient dose, radiation safety.
- 2. Primary factor of quality
- 4. Means breaking or slowing down
- 5. Collision event between a positron and an electron
- 7. Another name for classical interactions
- 8. The number of x-ray photons in an x-ray beam
- 9. The reduction of energy or number of photons in the x-ray beam.
- 12. The penetrating power of the x-ray beam.