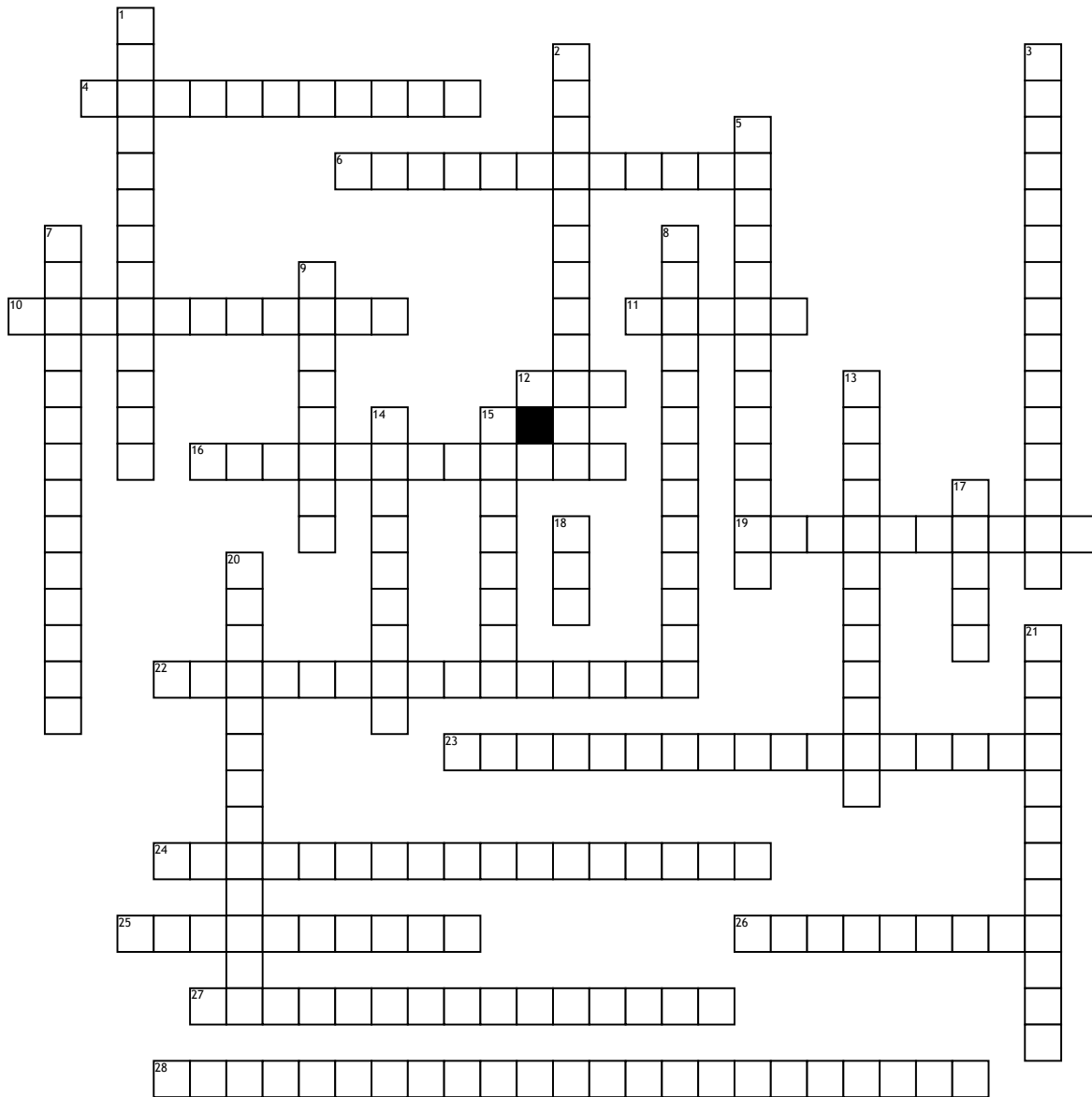


Name: _____

Chapter 4 Photostimulable Phosphor Image Capture



Across

4. grid in which the scatter absorbing lead lines are tilted so that, at a distance, the lines will coverage
6. soft polymer that protects the back of the cassette
10. reduction of the area of beam that reaches the patient through the use of two pairs of lead shutters
11. grid line or image noise pattern ; zebra pattern
12. milliamperere-seconds
16. semirigid material in the imaging plate that gives the imaging sheet some strength
19. located between the active layer and the support that absorbs the stimulating light but reflects emitted light
22. layer of material that will absorb and reduce static electricity
23. movement of the laser along the imaging plate

24. movement of the imaging plate through the reader ; also known as translation or subscan direction

25. used to blacken out the white collimation borders in a digital image
26. ratio of the height of the grid line to the width of the interspace material
27. layer in the imaging plate that sends light in a forward direction when released in the cassette reader

28. phosphor that produces light when stimulated by light or x-ray photons

Down

1. layer of photostimulable phosphor that traps electrons during exposure
2. thin piece of plastic with several layers of material that capture and store image data
3. thin, tough clear plastic covering the imaging plate for protection of the phosphor layer
5. number of grid lines per inch

7. area within the phosphor where electrons are trapped

8. detects photostimulable phosphor

9. the number of bits stored per pixel

13. label attached to the cassette or to the imaging plate that identifies the plate for the purpose of matching the examination to the plate

14. avoidable extraneous information on the image that interferes or distracts from image quality

15. rigid plastic housing for the imaging plate
17. light amplification of stimulated emission of radiation, a device that creates and amplifies a narrow intense beam of coherent light

18. kilovoltage peak

20. failure of an imaging system to record densities

21. recording error in the digital image