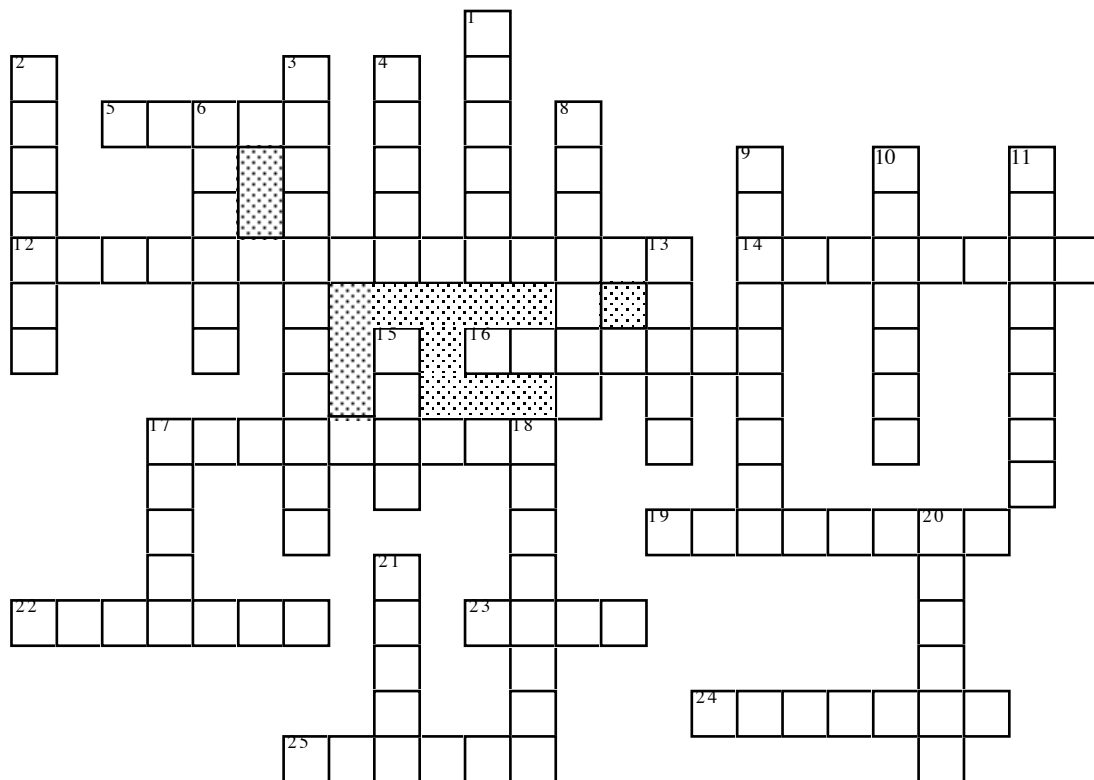


WS 5.9 Crossword Puzzle



Down

1. packets of electromagnetic radiation
2. radioisotopes used for medical purposes; they can be detected in the body by their radiation
3. an unstable atomic nucleus is _____
4. type of radiation; very high in energy; very powerful
6. sub-atomic particle with positive charge
8. also known as hydrogen-3 (see WS 5.4)
9. disastrous meltdown at this Russian power plant
10. part of atom where most of the mass can be found
11. two atoms of same element with different masses
13. discovered radium; coined the term "radioactive"
15. particle equivalent to an electron; emitted from unstable nuclei
17. radioactive gas found in some homes
18. if an oxygen loses a proton, it would become this
20. this happens on the sun
21. light amplification by stimulated emission of radiation
(hint- this is an acronym)

Across

5. particle equivalent to a helium nucleus with very low penetration power
12. X-rays are a type of _____ radiation
14. sub-atomic particle with a negative charge
16. sub-atomic particle with no charge
17. form of energy which travels in waves at the speed of light
19. a way to express how long it takes a radioactive material to decay
22. radioactive metal used in nuclear power plants
23. area of the nuclear plant where the chain reaction occurs
24. nuclear _____ occurs in atomic weapons
25. a radioactive form of this element is used in dating ancient objects