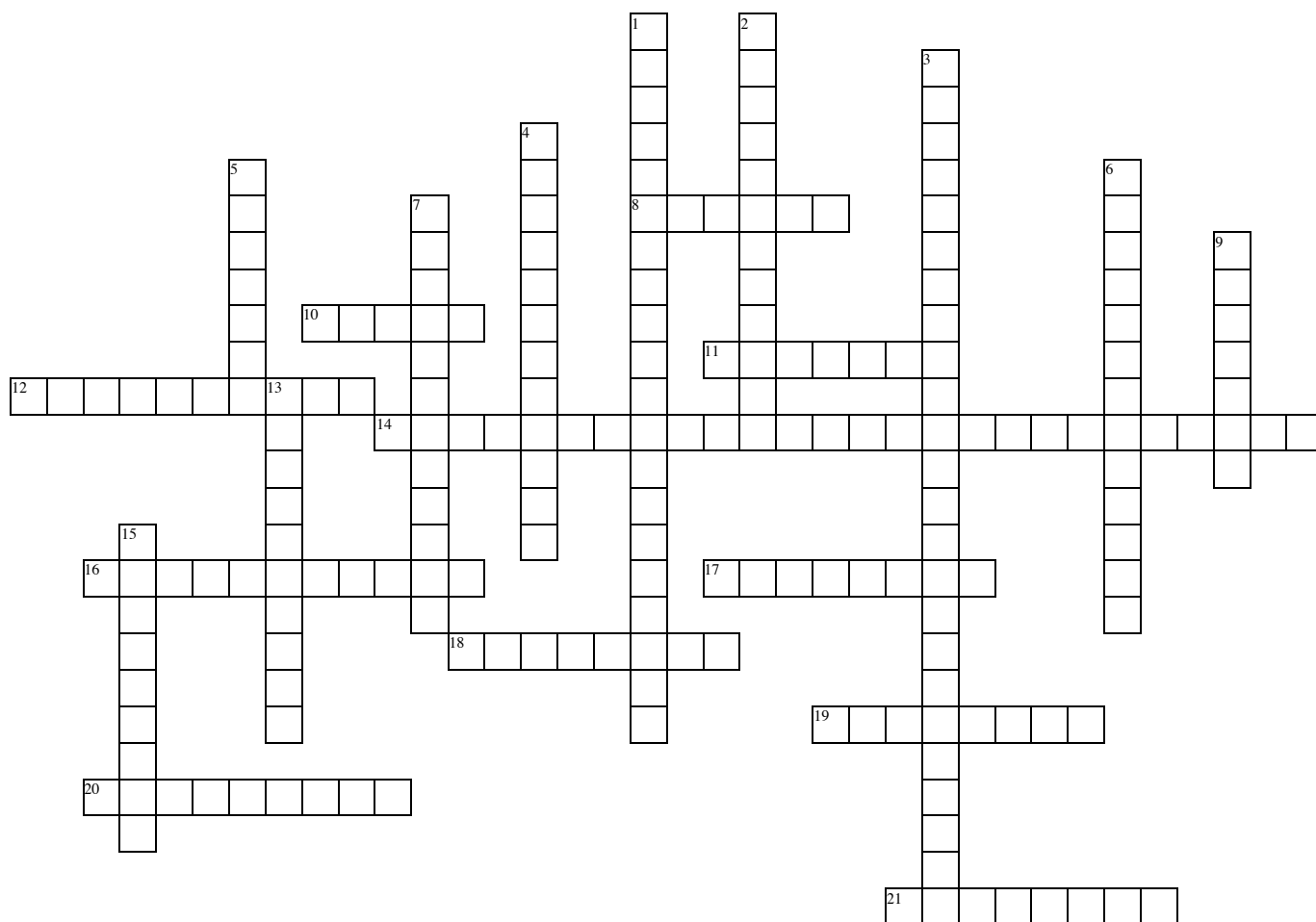


National 5 Physics – definitions crossword



Across

8. the joining of two nuclei to form a new, heavier nucleus
10. the energy transferred in 1 second
11. the splitting of a heavy nucleus into two smaller pieces along with two or three neutrons
12. the change in the speed of light as it passes from one material to another
14. the weight of 1 kg / weight per unit mass (11,5,8)
16. the bending of waves at a gap or obstacle
17. the displacement of an object in 1 second
18. (of a radioactive source) is the number of decays per second
19. time for the activity of a radioactive source to decrease by half (4,4)
20. high frequency electromagnetic waves (ejected from an unstable nucleus) (5,4)
21. the force exerted on 1 square metre

Down

1. the energy required to increase the temperature of 1 kg of a material by 1 °C (8,4,8)
2. specific latent heat of _____ of a substance - the energy required to change 1 kg of the substance from liquid to gas (at its boiling point)
3. a measure of the biological effect of a radiation (given the symbol ω_R) (9,9,6)
4. a fast moving electron (ejected from an unstable nucleus) (4,8)
5. the charge transferred in 1 second
6. a helium nucleus (ejected from an unstable nucleus) (5,8)
7. the change of velocity in 1 second
9. the energy given to each coulomb of charge by the power supply or battery
13. when an atom gains or loses electrons
15. the distance travelled by light in 1 year (5,4)