

Mark schemes

1. A
Its rate of change of momentum is at a minimum. [1]
2. C
10 [1]
3. B
16N [1]
4. C
to decrease neutron speeds [1]
5. A
 $2.3 \times 10^8 \text{ W}$ [1]
6. C
 $2.55 \times 10^{-13} \text{ J}$ [1]
7. D [1]
8. B [1]
9. B [1]
10. D [1]
11. A [1]
12. B [1]
13. C [1]
14. A [1]

- 15. C [1]
- 16. C [1]
- 17. D [1]
- 18. C [1]
- 19. D [1]
- 20. B [1]
- 21. B [1]
- 22. A [1]
- 23. D [1]
- 24. C [1]