



Across

- 4 Invented the 'flying shuttle' (4,3)
- 7 Demands of his china empire impetus to canal building (8)
- 8 Adsorbent (sic) and thickening clay (7,5)
- 10 More efficient machine 'for raising water by fire' (8,6)
- 11 Woollen cloths stretched by these after fulling - keeping you in suspense! (11)
- 13 'Unions' of workers or merchants who may've hampered mechanisation of woollen industry (6)
- 17 Grass crop for winter fodder (6)

- 18 Influential prophet of population apocalypse (7)
- 19 Inventor of the original steam pump (6)
- 22 1801 Parliamentary measure facilitating agricultural consolidation (7,9,3)
- 27 Brought Worsley coal to Manchester (11,5)
- 28 Father (not literally!) of the New Leicester sheep (8)
- 29 Marx's collaborator and benefactor (6)

Down

- 1 'From this foul drain pure gold flows forth' (de Tocqueville) (10)

- 2 Supposed home of the four-course rotation (7)
- 3 'I sell what all the world wants: power!' (7)
- 5 Produced top quality cylinders for Watt's engines (9)
- 6 His 'puddling' process permits coke-fuelled wrought iron (4)
- 9 C18th commercial road operators (8,6)
- 12 'Turnip'; agricultural innovator (9)
- 14 Location of Arkwright's first cotton mill (8)
- 15 Invented the 'mule' (8)
- 16 Would be impoverished by Cartwright's invention (8,7)

- 19 Watt's gearing system for rotary action (3,3,6)
- 20 'Nothing to sell but their labour' (11)
- 21 Pioneering road-maker and civil engineering genius (7)
- 23 His 'gin' speeded up raw cotton production (3,7)
- 24 Invented the spinning jenny (10)
- 25 Its loss a serious consequence of enclosure (6)
- 26 Family name of the Coalbrookdale iron dynasty (5)