

1-5 ADCBB
6-10 BCCBA
11-14 CAAC

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- (a) (i) conduction B1
- (ii) molecules at hot end vibrate more/have high/more energy
OR knocked by molecules/free electrons at hot end have more energy B1
- energy/vibration transferred to neighbours/shared
OR (energetic) electrons move along rod B1
- (b) copper is a better conductor OR iron is a poorer conductor
(ignore electrical) B1
- (c) iron conducts heat slowly OR poor conduction by iron sideways from flame B1
- above gauze: flame retains its energy OR gas hot enough to burn B1
- copper conducts heat rapidly OR good conduction by copper sideways from flame B1
- above gauze: gas not incandescent above gauze OR gas not hot enough to burn B1

[Total: 8]