Workbook

3.1 Magnificent metals

1. Sonorous, shiny when freshly cut, high melting point, good conductor of thermal energy, strong, ductile, good conductor of electricity, hard, malleable.
2. Heat sink – good conductor of thermal energy; bells – sonorous; bicycle frames – strong and malleable; electric cables – good conductor or electricity; cooking pans – good conductor of thermal energy; coins – shiny; printed circuit boards – good conductor of electricity.

3.4 Non-metal elements

1. Brittle, poor conductor of thermal energy, low melting point, poor conductor of electricity, dull.
2. C, E
3. **a.** I, L, K, J, G, H
   b. G, H, J

Student Book answers

1. **a.** Physical [1]
   b. Conductor [1]
   c. Malleable [1]
   d. Ductile [1]
   e. Independent [1]
   f. Control [1]
   g. Alloy [1]
   h. Brittle [1]
   i. Insulator [1]
2. **a.** A good conductor of heat/thermal energy [1]
   b. A good conductor of electricity [1]
   c. Sonorous [1]
   d. Strong [1]
3. **a.** It melts at 1063°C [1]
   b. It is a good conductor of heat/thermal energy; it is a good conductor of electricity [1]
   c. It is always shiny [1]
   d. It is a good conductor of electricity [1] and it is always shiny