Mark schemes

-		
7	1	

(a) combustion

reversible

1

(b) water molecules break down and reform at the same rate

(c) **Level 3:** Relevant points (reasons / causes) are identified, given in detail and logically linked to form a clear account.

5-6

Level 2: Relevant points (reasons / causes) are identified, and there are attempts at logical linking. The resulting account is not fully clear.

3-4

Level 1: Points are identified and stated simply, but their relevance is not clear and there is no attempt at logical linking.

1-2

No relevant content

0

Indicative content

Potable water production

- pass water through filter beds
- to remove solids
- use chlorine / ozone / UV light
- to sterilise water
- · to destroy microbes

Waste water treatment

- screening
- using a metal grid
- to remove solids
- to remove grit
- sedimentation
- to produce sewage sludge and effluent
- anaerobic digestion of sewage sludge
- aerobic biological treatment of effluent

access to **Level 3** requires reference to **both** potable water production **and** waste water treatment.