

## GCSE Chemistry A (Gateway Science) J248/04 Chemistry A C4-C6 and C7 (Higher Tier)

**Question Set 28** 

- 1 Iron rusts when it gets wet.
  - (a) The word equation for rusting is

Balance the symbol equation for the formation of rust.

.....Fe(s) + .....
$$H_2O(I)$$
 + ..... $O_2(g)$   $\rightarrow$  .....Fe<sub>2</sub> $O_3$ •3 $H_2O(s)$ 

- **(b)** A 1.0 kg iron bar is left outside in the rain.
  - All of the iron turns to rust.
  - The rust forms at a rate of 60 g per day.

Calculate how long it will take for the iron bar to turn completely to rust.

Give your answer to the nearest day.

Answer = ..... days **[6]** 

[2]

## **Resource Materials**

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