

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

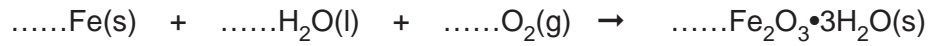
Question Set 28

1 Iron rusts when it gets wet.

(a) The word equation for rusting is

iron + water + oxygen → rust (hydrated iron(III) oxide)

Balance the symbol equation for the formation of rust.



[2]

(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]

Total Marks for Question Set 28: 8

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