

GCSE Chemistry B (Twenty First Century Science) J258/01 Breadth in Chemistry (Foundation Tier)

Question Set 4

1 Amir investigates the halogens.

Table 1.1 shows some information about the halogens.

(a) Complete **Table 1.1** by filling in the missing information.

	Chlorine	Bromine	lodine
Appearance and state at room temperature and pressure	yellow-green gas		grey solid
Colour as a gas	yellow-green	red-brown	
Product when reacted with sodium		NaBr	NaI

Table 1.1

(b) Amir reacts some chlorine solution with a solution of potassium bromide.

(i) Complete word and chemical equations for the reaction that happens.

chlorine	+	potassium bromide	\rightarrow		+	bromine
Cl_2	+	2	\rightarrow	2KC1	+	Br_2

(ii) Use the equations in (b)(i) to explain why the solution turns brown.

[1]

[2]

Total Marks for Question Set 4: 6

The solution turns brown.



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