Topics of F.1-3 integrated science (IS) that are related to Chemistry

Form	IS units	Relevant parts
F1	Unit 1: Introducing Science	• Lab safety • Lab practical skills
	Unit 2: Water	• Change in physical state • Dissolving • Filtration
	Unit 5: Energy	• Forms of energy • Fossil fuel
	Unit 6: Matter as Particles	• Particle theory • Three states of matter • Dissolving

Topics of F.1-3 integrated science (IS) that are related to Chemistry

Form	IS units	Relevant parts
F2	Unit 7: Living things and air	• Proper tests for different gases • Respiration with combustion
	Unit 8: Making Use of electricity	• Simple circuit • Current-voltage-resistance
	Unit 9: Common acids and alkalis* **	**All contents of the whole units (Advanced knowledge in Chem based on the above contents)**

Topics of F.1-3 integrated science (IS) that are related to Chemistry

Form	IS units	Relevant parts
F3	**Unit 13: From Atoms to materials*** **	**All contents of the whole units (Advanced knowledge in Chem based on the above contents)**

Topics in HKDSE Chemistry

Compulsory 必修部分 1

I. Planet earth 地球*

II. Microscopic world I 微觀世界 I*

III. Metals 金屬*

IV. Acids and bases 酸和鹽基 *

V. Fossil fuels and carbon compounds 化石燃料和碳化合物

VI. Microscopic world II 微觀世界 II

VII. Redox reactions, chemical cells and electrolysis
氧化還原反應、化學電池和電解

VIII. Chemical reactions and energy 化學反應與能量

**Highly related to topics in integrated science*

Charge	Name	Formula
1–	hydride ion	H^-
	chloride ion	Cl^-
	bromide ion	Br^-
	iodide ion	I^-
	hydroxide ion	OH^-
	nitrate ion	NO_3^-
	nitrite ion	NO_2^-
	hydrogencarbonate ion	HCO_3^-
	hydrogensulphate ion	HSO_4^-
	cyanide ion	CN^-
	permanganate ion	MnO_4^-
	chlorate ion	ClO_3^-
	hypochlorite ion	ClO^-
2–	oxide ion	O^{2-}
	sulphide ion	S^{2-}
	sulphate ion	SO_4^{2-}
	sulphite ion	SO_3^{2-}
	thiosulphate ion	$S_2O_3^{2-}$
	silicate ion	SiO_3^{2-}
	carbonate ion	CO_3^{2-}
	chromate ion	CrO_4^{2-}
	dichromate ion	$Cr_2O_7^{2-}$
3–	nitride ion	N^{3-}
	phosphide ion	P^{3-}
	phosphate ion	PO_4^{3-}

Table 7.4 The names and formulae of some common anions