

Teaching guide: two teachers, two years

This is a plan for teaching GCSE Combined Science: Synergy from our new draft specification (8465). First teaching starts in 2016 Autumn term and first exam is in 2018 Summer term. This is a two-year plan based on two teachers having a total of 4 hours of teaching time per week. The abbreviation RP indicates a required practical.

Year 1

Teacher A:

- Unit 1 Building blocks
- Unit 2 Transport over larger distances
- Unit 3 Interactions with the environment

Teacher B:

- Unit 5 Building blocks for understanding
- Unit 6 Interactions over small and large distances
- Unit 7 Movement and interactions

Autumn term 2016: 14 weeks

Teacher A		Teacher B	
Topic and time (hours)	Teaching and learning links	Topic and time (hours)	Teaching and learning links
4.1.1 States of matter (6) RP1 and RP2	 Atomic structure Systems in the body The periodic table 	4.5.1 The periodic table (5)	 Atomic structure Structure and bonding Acids and alkalis The rate and extent of chemical change
4.1.2 Atomic structure (3)	States of matterThe periodic tableStructure and bonding	4.5.2 Chemical quantities (9)	 Atoms into ions and ions into atoms Carbon chemistry Resources of materials
4.1.3 Cells in animals and plants (8.5) RP3	Systems in the bodyInheritance	4.6.1 Forces and energy changes (12) RP9	Magnetism and electromagnetismForces and motion
4.1.4 Waves (5)	The Earth's atmosphere		

Teacher A		Teacher B	
Topic and time (hours)	Teaching and learning links	Topic and time (hours)	Teaching and learning links
	Radiation and riskStates of matter		

Spring term 2017: 13 weeks

Teacher A		Teacher B	
Topic and time (hours)	Teaching and learning links	Topic and time (hours)	Teaching and learning links
4.2.1 Systems in the human body (16) RP4	 Cells in animals and plants The rate and extent of chemical change 	4.6.1 Forces and energy changes (4)	Magnetism and electromagnetismForces and motion
4.2.2 Plants and photosynthesis (8) RP5 and RP6	 Cells in animals and plants The Earth's atmosphere Ecosystems and biodiversity 	4.6.2 Structure and bonding (7)	 States of matter Atomic structure The periodic table Atoms into ions and ions into atoms Carbon chemistry
		4.6.3 Magnetism and electromagnetism (6) 4.7.1 Forces and motion (5) RP10	 Forces and energy changes Forces and motion Electricity Magnetism and electromagnetism

Summer term 2017: 12 weeks

Sammer term 2017, 12 weeks			
Teacher A		Teacher B	
Topic and time (hours)	Teaching and learning links	Topic and time (hours)	Teaching and learning links
4.3.1 Lifestyle and health (12)	 Systems in the human body The rate and extent of chemical change 	4.7.2 Electricity (14) RP11 and RP12	 Forces and energy changes Magnetism and electromagnetism
4.3.2 Radiation and risk (7)	Atomic structureWaves	4.7.3 Acids and alkalis (7) RP13	The periodic table

Teacher A		Teacher B	
Topic and time (hours)	Teaching and learning links	Topic and time (hours)	Teaching and learning links
4.3.3 Preventing, treating and curing diseases (5)	Lifestyle and healthWaves		Chemical quantities

Year 2

Teacher A:

- Unit 3 Interactions with the environment continued
- Unit 4 Explaining change

Teacher B:

- Unit 7 Movement and interactions continued
- Unit 8 Guiding spaceship Earth to a sustainable future

Autumn term 2017: 14 weeks

Teacher A		Teacher B	
Topic and time (hours)	Teaching and learning links	Topic and time (hours)	Teaching and learning links
4.3.3 Preventing, treating and curing diseases (15)	Lifestyle and healthWaves	4.7.4 The rate and extent of chemical change (11) RP14 and RP15	The periodic tableChemical quantitiesSystems in the human body
4.4.1 The Earth's atmosphere (10) RP7	 Plants and photosynthesis Carbon chemistry Resources of materials and energy 	4.7.5 Atoms into ions and ions into atoms (5) RP16	The periodic tableChemical quantities
4.4.2 Ecosystems and biodiversity (7) RP8	 Waves Plants and photosynthesis Carbon chemistry Resources of materials and energy 	4.8.1 Carbon chemistry (12)	 The periodic table Chemical quantities Structure and bonding The Earth's atmosphere Ecosystems and biodiversity

Spring term 2018: 11 weeks

Teacher A		Teacher B	
Topic and time (hours)	Teaching and learning links	Topic and time (hours)	Teaching and learning links
4.4.3 Inheritance (5)	 Cells in animals and plants Variation and evolution 	4.8.2 Resources of materials and energy (8)	 The Earth's atmosphere Ecosystems and biodiversity
4.4.4 Variation and evolution (7)	InheritanceThe rate and extent of chemical change		The periodic tableAtoms into ions and ions into atoms
Revision			

Summer term 2018 - first exam.