

Denton Community College Departmental Curriculum Map

Subject: Science

Year Group: 10

ASPIRE

		Unit 1		Unit 2		Unit 3		Unit 4		Unit 5		Unit 6
Topics	1.	Cell Biology	1.	Bonding, Structure	1.	Energy	1.	Inheritance,	1.	Organic Chemistry	1.	Forces
	2.	Organisation		and the eriodic	2.	Electricity		Variation and	2.	Using Resources		
	3.	Infection and		table	3.	Particle Model of		Evolution	3.	Chemistry of the		
		Response	2.	Chemical and		Matter	2.	Ecology		Atmosphere recap		
	4.	Bioenergetics		Energy Changes					4.	Chemical Analysis		
		Recap								Recap		
\A/h at will	1		1	Decen VO	1	Decen VO	1		1	Allennon	1	
students do	1.	Recap 19	1.		1.	Recap in	1.	Recap Y9	1.	Aikanes	1.	Recap 19
during this		Differentiation		Transition metals		Kinetic energy		Mitosis & melosis		Fractional		Stopping
unit?		Cell division		Bonding		Gravitational &		Protein synthesis		distillation		D-I graphs
		Molecule		Atomic structure		elastic potential		Understanding		Hydrocarbon		V-T graphs
		Movement		& periodic table		Specific heat		genetics		properties		Elasticity (*)
		Cultivating		development		capacity (*)		Inheritance		Cracking		Elastic potential
		microbes		Ionic compounds		Insulation (*)		probability	2.	Potable water (*)		Pressure
	2.	Recap Y9		Properties of	2.	Recap Y9		Genetic		Waste treatment		Newton's laws
		Enzymes		matter		Resistance		engineering		Lifecycle		Acceleration (*)
		Non-communicable		Polymers		Resistors		Evolution &		assessments		Uniform
		diseases		Giant covalent		Power & energy		antibiotic		Metal extraction		acceleration
		Cancer		Small molecules		Static		resistance	3.	Evolution of the		Momentum (HT)
	3.	Types of microbe		Carbon		Electric fields		Evolution theory &		atmosphere		Resolving vectors
		Immunity		compounds	3.	Particle model		speciation		Pollution		(HT)
		Vaccines		Metallic bonding		Density (*)		Fossils &	4.	Recap Y9		Moments
		Antibiotics &		& alloys		Specific latent		extinction		Chemical tests (*)		
		painkillers		Nanoparticles		heat	2.	Recap Y9		Instrumental		
		Drug development	2.	Recap Y9		Internal energy &		Feeding		methods		
				Extracting metals		gas pressure		relationships				

	Monoclonal	Soluble salts (*)	Specific heat	Trophic levels		
	antibodies	Electrolysis (*)	capacity	Sampling (*)		
	4. Photosynthesis (*)	Acids	Boyle's Law	Cycles		
	Respiration	Chemical & fuel		Biodiversity		
	Metabolism	cells		Food security		
		Titrations		Decomposition (*)		
				Impact of		
				environmental		
				change		
When will	Bi-weekly tests	Bi-weekly tests				
students be						
assessed?						
How will	Each topic will be	Each topic will be				
students be	assessed at an	assessed at an				
assessed?	appropriate time using	appropriate time using				
	a key piece	a key piece				
	An end-of-unit exam	An end-of-unit exam	An end-of-unit exam	An end-of-unit exam	An end-of-year exam	
	will be completed	will be completed	will be completed	will be completed	will be completed to	
	after all 3 topics have	assess the learning				
Key Ve eshularru	been taught	been taught	been taught	been taught	since September	
Key vocabulary	see medium term	see meaium term	see medium term	see medium term	see meaium term	see meaium term
	exercise books	exercise books				
Homework	One weekly task linked	One weekly task linked				
opportunities	to topics covered in	to topics covered in				
to broaden or	class	class	class	class	class	class
deepen						
student						
knowledge	WORKING	WORKING	WORKING	WORKING	WORKING	WORKING
National	SCIENTIFICALLY	SCIENTIFICALLY	SCIENTIFICALLY	SCIENTIFICALLY	SCIENTIFICALLY	SCIENTIFICALLY
Curriculum	The development	The development	The development	The development	 The development 	 The development
	of scientific	of scientific				
	thinking	thinking	thinking	thinking	thinking	thinking

 and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature SUBJECT CONTENT	 and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature SUBJECT CONTENT	• • SUB	and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature	• • su	and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature	• • su	and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature	• • sui	and strategies Analysis and evaluation Vocabulary, units, symbols and nomenclature
 Cell biology Transport systems Health, disease and the development of medicines Photosynthesis 	 Atomic structure & the periodic table Structure, bonding & the properties of matter Chemical changes Energy changes in chemistry 	•	Energy Electricity The structure of matter	•	Evolution, inheritance & variation Ecosystems	•	Chemical & allied industries Earth & atmospheric science Chemical analysis	•	Forces Forces and motion

Separate Science content only (*) Required Practical