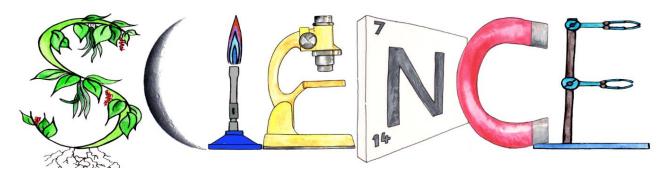
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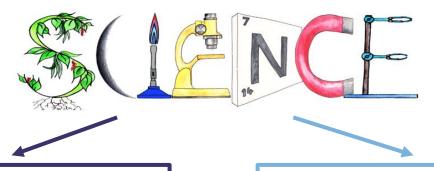
Department





English, Maths & Science Information Evening

Penistone Grammar School



Trilogy (Combined Science)

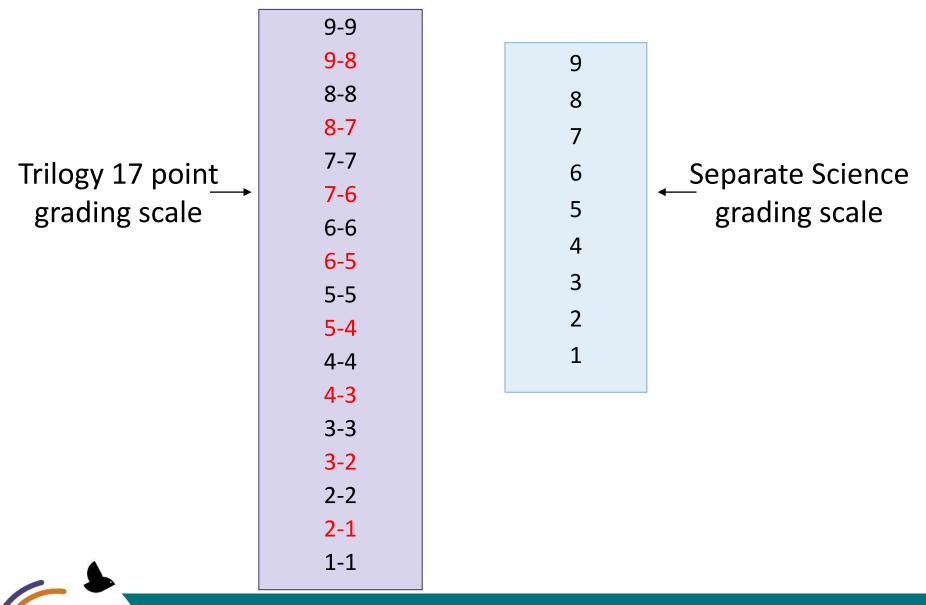
- 2 x GCSEs
- 6 x exams (1h15min)
- 10 lessons per fortnight
- Rotations of Biology, Chemistry & Physics (25 lessons each)

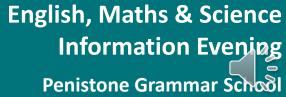
Separate (Triple)

- 3 x GCSEs
- 6 x exams (1h45min)
- 15 lessons per fortnight
- Rotations of Biology, Chemistry & Physics (25 lessons + 5/6 option lessons)











Assessments

1) Home learning

- Past paper questions
- Approximately 3 per rotation
- Around 40 marks each
- Recap HL

2) Required practicals

- Determined by exam board
- Past paper questions
- Lesson 1: practical
- Lesson 2: short test

3) End of topic test

- Short-term assessment
- One per rotation
- Past paper questions
- Around 50 marks each

4) Practice exams

- Past paper questions
- Long-term assessment
- 75 or 100 marks



AQA GCSE - Combined Science: 17110gy



Biology Learning Pathway – Higher Tier

What's assessed?

Biology Paper 1 Exam (1h 15min) – Topics B1-4

(B1 Cell biology, B2 Organisation, B3 Infection & response and B4 Bioenergetics)

Biology Paper 2 Exam (1h 15min) – Topics B5-7

(B5 Homeostasis & response, B6 Inheritance, Variation and Evolution and B7 Ecology)

B1 Cell Biology

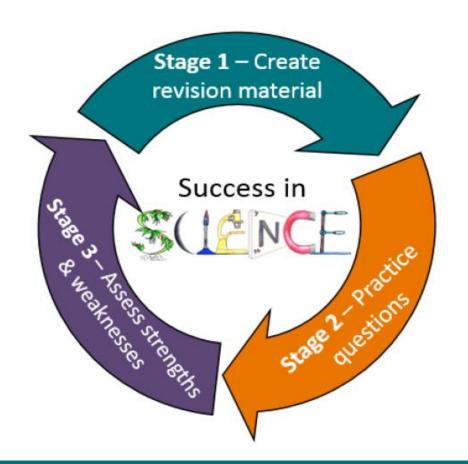
B) HO	mec	/3000		B1 Cell Biology	17 Respiration	1. abei	
						overview	Des	
	81.	1 Ce	II Structure	e (Paper	and describe the role of each part of an animal and plant and describe the role of each part of an animal and a plant cell.	Aerobic	Desc State	
H	1	An	imal and plan	Comp	and describe the role of each part of different cell. pare the structure of an animal and a plant cell. pare the structure of an animal and a plant cell. pare the structure of an animal and a plant cell. 15 16 17 19	Anaerobic		
1	_	C	ells	Ident	ify the specialisations help the cell carry out 2	respiration	State	
1	_	di	ifferentiating	Desc	ribe how specialisation in the property of the term 'differentiation' ribe the term 'differentiation' ribe the term 'differentiation' ribe the term 'differentiation in plant and animal cells.	Response to	State:	
1	2	ir	into specialised cells		Describe 16th eterm 'differentiation' Describe the term 'differentiation' Compare differentiation in plant and animal cells. Compare differentiation in plant and animal cells are used in Define a stem cell and describe how stem cells are used in			
\	<u> </u>	\top				Metabolism	Explain Define	
	3	1:	Stem dells				Give exa	
1	H	+	Eukaryotic an			Home learning 3 review	Percenta	
1	4	\perp	prokaryotic c	ells Co De	mpare a prokaryotic cell (bacterial) with a eukaryonic cell (bacterial) with a eukaryo		rercenta	
1	\.	, \	Required practical 1:	Bi	iefly compare a light magnification, real size	Test 1 & Test review lesson	Dana	
	Ľ		Animal & pla	ant	Graue.	resson	Percentag	
		6	cells and microscopy	P	ercentage:			
		_			Grade:			
		7	Home learn	ning 1	percentage:		$\overline{}$	
11/		′	/ review		vision & Transport in Cells (Paper 1) Describe the structure of a chromosome. Describe the structure of a chromosome.			
	1	B1	l.2 & B1.3 (Cell Divi	Describe the structure of a chromosome.	ell and a gamere.	1	
		8	Chromoso	mes	State how many chromosome.			
			Mitosis a	nd the	State what filled have main stages of the cell cycle.		+	
		9	cell cycle		Describe What hope		+	
		-	Theory o		Define the term difference of diffusion.		1 1	
		1	LO diffusion	1	Describe factors that affect the rate of Describe adaptations for efficient diffusion. Describe adaptations for efficient diffusion.	d leaves	\dashv	
			11 Diffusio organis	n in living ms	Calculate and compare some lungs, fish gills, plant 1000	and interpret data		
		11	-+-		Define the term of the percentage gain and loss of mass of pre-			
			12 Theory	of osmos	from graphs.			

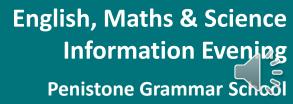
		l		1				
		13	Required practical 2		Investigate the effect of a second			
		14	Osmosis	:	the mass of plant tissue.		_	
		14	Osmosis		Investigate the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue. Percentage:			
	\parallel	15	Active transport		Grade: Define the term 'active transport' and give examples. Compare active transport with diffusion and			-
	=	16			Compare active transport' and give examples. Percentage:		4	_
	E	34.2	Respiration	n (Par	er 11 Grade:		+	_
	17	1	overview		escribe who			
	18	re	Aerobic respiration		escribe why respiration is an exothermic reaction. escribe why organisms need the energy that respiration releases. ate the word and chemical equations for aerobic respiration.		T	
	19	Ar res	naerobic Spiration	Sta	te the way		\vdash	-
2	0	Res	sponse to ercise	Des	te the word equation for anaerobic respiration in human muscle cells the word equation for anaerobic respiration in human muscle cells tribe how the body reacts to the increased demand to	ls.		\downarrow
!1		Met	abolism	Defi	ain the term 'oxygen debt'.	ls.	_	
2	Home learning 3 review		Give	examples of metabolism (e.g. glucose → starch) ntage:	\rightarrow	\dashv		
Test 1 & Test review lesson Percen			& Test Llesson		Grade:		\dashv	
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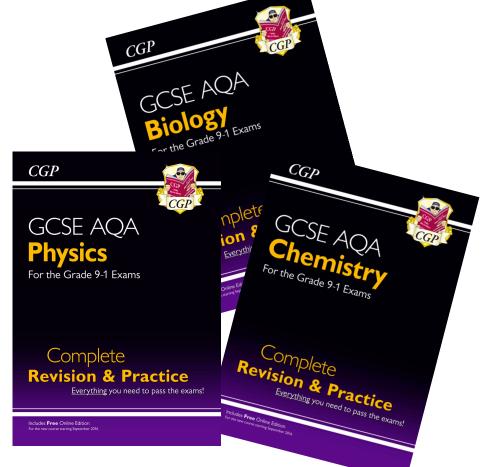




Revision & what you can do to help



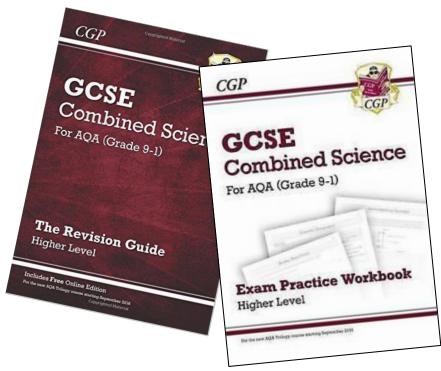








TRILOGY SCIENCE





Information Evening
Penistone Grammar School