				– Subject		
Date	Wk	Wk	Units St	udied & Learning O	utcomes	Key Concepts & Assessment
				8 we	eks (?? Lessons)	(38Days)
Tues 2-Sep	Α	1	Overview of the second se	of Unit/No. lesson	<u>s</u>	Foundational Concepts
9-Sep	В	2	Cells and Organ	hisation and Surviv	/al/16 lessons	Cell Biology & Organisation
16-Sep*	Α	3	Lesson Sec	Juence of Content estanding what m	: zkos something	Outcomes
23-Sep	В	4	living	standing what ma	akes something	<ul> <li>Classify whether something is living or not using MRS</li> </ul>
30-Sep	Δ	5	Lesson 2 & 3-Le	earning about part	ts of plant and	GREN life processes
7-Oct	B	6	animal cells.			Identify the parts of a plant and animal cell and the
14-Oct	A	7	Lesson 4-The lig	ght microscope ar	nd how it works	role of each of the organelles
			specimens	the light microsol	ope to observe	• Know the parts that make up a light microscope and understand how to use one correctly
21-Oct	В	8	Lesson 6-Learn	ing about specialis	sed animal cells	<ul> <li>Prepare specimens correctly and use a light</li> </ul>
			Lesson 7-Learn	ing about specialis	sed plant cells	microscope to focus and observe them.
			Lesson 8-Classi	fication		<ul> <li>Name and identify different examples of specialised</li> </ul>
			Lesson 9-Under	rstanding diffusion	1	plant and animal cells, describing their role, linking
			Lesson 11-Lear	ning about tissues		this to structural adaptations they have to perform
			Lesson 12-Lear	ning about organ	systems	<ul> <li>Identify substances that cells must take in, get rid of</li> </ul>
			Lesson 13-Adap	otations of organis	sms for survival	for survival. Describe how this occurs.
			Lesson 14-Natu	ral selection and	the survival of	• Understand that cells are built into larger structures,
			organisms	of unit tost and ar	nlication	with examples. Know the definitions of tissue, organ
			Lesson 15-Enu	or unit test and ap Answer Ouestio	n	and organ system.
						<ul> <li>Identify the roles of tissues, organs and systems</li> <li>Know that organisms have adaptations for survival in</li> </ul>
			• Unit Learn	ing Outcomes:		their environment and be able to identify
			GW BI EW			adaptations. Suggest how some adaptations aid
						survival.
			Year 6 –	Year 7- The	Next (Y8) Year 9 – Cells	• Understand the key process that leads to the survival
			Identifying	content of a	tissues, organs	and evolution of organisms over time.
			heart, lungs	healthy	and systems.	<ul> <li>Understand how organisms are classified</li> <li>Understand why organisms need to be classified</li> </ul>
			and blood	human diet.	Microscopy	<ul> <li>Describe the Linnean system of classification</li> </ul>
			vessels.	-	and stem cells.	<ul> <li>Apply knowledge of classification to classify examples</li> </ul>
			Adaptations	of imbalances	Year 10 – Transport in	of organisms
			organisms	in the diet	and out of	
			to their	- Tissues and	cells.	Skills used/learned
			environmen	organs of the	Year 11 –	• Practical skills
			t.	human	Adaptations for	<ul> <li>Interpretation skills</li> </ul>
				digestive	survival,	<ul> <li>Evaluation skills</li> </ul>
				how food is	selection and	
				digested.	the theories of	Tier 2/3 Vocabulary
				C	evolution.	Referenced on PowerPoint slides, quick quizzes.
						• <b>KW</b> : Respiration, Excretion, Reproduction, Organelle,
			GW: Ident	ify names cell org	anelles, tissues,	Mitochondria. Vacuole. Objective lens. Stage.
			organs and	d systems. State s	substances that	chloroplast, diffusion
			move in ar	d out of cells		
			BI: Can link	corgans in the org	gan systems to	Links to root words- Etymology
			their roles	and the adaptatic	ons they have	• The word 'chloroplast' derives from the Greek words
			to perform	the role. Can de	scribe the roles	knioros and plastos, which mean green form.
			ot specialis	ed cells and the a	daptations	

			<ul> <li>they have. Can predict which way substances might diffuse.</li> <li>EW: Can suggest how unfamiliar adaptations might allow organisms to survive. Can understand how diffusion might speed up or slow down and identify how cells are adapted to maximise diffusion.</li> <li>Assessment <ul> <li>Starter quizzes based on previous learning</li> <li>HSW Practical task – interpreting the results of cell diffusion practical</li> <li>End of unit quiz</li> </ul> </li> </ul>	<ul> <li>The word 'diffusion' derives from the Latin diffundo, which means 'I spread or pour out'</li> <li>The word 'vacuole' comes from the Latin word vacuus, meaning empty.</li> <li>Links to culture</li> <li>Appreciation of how our bodies are made up from cells.</li> <li>Understanding organisms around them.</li> <li>Can link to organ transplants etc.</li> <li>History</li> <li>Links to historical events such as the invention of early microscopes and the early observation of cells. Links to Charles Darwin and ideas about evolution</li> <li>In 1859, Charles Darwin set out his theory of evolution by natural selection as an explanation for adaptation and speciation. He defined natural selection as the "principle by which each slight variation [of a trait], if useful, is preserved".</li> <li>Careers links:</li> <li>Careers involving knowledge of anatomy</li> <li>Lab-based careers – uses of microscopes to analyse samples</li> <li>Engineering links to production of artificial organs and machines</li> <li>Ecological and conservation links</li> <li>EDI links:</li> <li>Organisms from different continents around the world</li> <li>Theory of evolution – religious beliefs</li> <li>Max Perutz- Red blood cells (specialised cells)</li> <li>Betty Hay – significant understanding of cell and development biology</li> <li>Parent and Careers month/Black History month 3/9 World afro day</li> <li>23/9 International day of sign languages</li> <li>10/10 world metal health day</li> <li>5/10 world teachers day</li> </ul>
Half-Term		[	7 weeks (?? lessons) (35 Day	
4-Nov	A	9	Overview of Unit/No. lessons	Equality Diversity and Inclusion (EDI) links? Mens health awareness month/disability confident month
11-Nov	R	10		1/11 Diwali 12/14 Demonstration Gradu
11-1000	Б	10	Lesson Sequence of Content:	12/11 Remembrance Sunday 13/11-19/11 Transgender awareness week
18-Nov	Α		Lesson 1-The Egg and The Sperm	14/11 World Diabetes Day
10 100		11	Lesson 2-Male and Female reproductive organs	1/12 World AIDS day
2E Nov	D		Lesson 3-Growth in the womb	25/12 Christmas Day
23-INOV	в	511	Lesson 4-The Menstrual Cycle	

2-Dec	Α		Lesson 5-Puberty	Foundational Concepts:		
		ST1	Lesson 6-Mother to Baby	Cell Biology, Genetics, variation & evolution and		
9-Dec	В	14	Lesson 7-Plant structure and fertilisation	HOMEOSTASIS		
2-Dec 9-Dec 16-Dec	A	ST1 14	Lesson 5-Puberty         Lesson 6-Mother to Baby         Lesson 7-Plant structure and fertilisation         Lesson 9-Inside the Nucleus         Lesson 10-End of unit test and application         Lesson 11-Long Answer Question         Prior       Current         N/A       Understand         Reproduction       in Humans         Year 9 – Hormones         Reproduction       Inheritance	<ul> <li>Foundational Concepts: Cell Biology, Genetics, variation &amp; evolution and Homeostasis</li> <li>Outcomes         <ul> <li>Identify what is required for fertilisation to occur</li> <li>Describe the organs of the male and female reproductive system and explain how reproduction occurs.</li> <li>Understand how the foetus develops during pregnancy.</li> <li>Understand the stages of The Menstrual cycle and the role of hormones</li> <li>Describe the changes that occur during puberty.</li> <li>Identify the substances that pass from mother to foetus and explain the effects of this transmission.</li> <li>Understand how and why seeds are spread</li> <li>Understand the role of DNA is passing on characteristics.</li> </ul> </li> <li>Skills used/learned         <ul> <li>Practical skills</li> <li>Method writing</li> <li>Interpretation skills</li> <li>Evaluation skills</li> <li>KW: Gamete, reproduction, fertilisation, DNA, Chromosome, Nucleus, Ovary, Oviduct, Vagina, Uterus, Testes, Sperm duct, Penis, Urethra, puberty</li> </ul> </li> <li>Links to root words- Etymology</li> <li>The word 'puberty' derives from the Latin word 'pubertas' meaning maturity.</li> <li>Tier 2/3 Vocabulary Referenced on PowerPoint slides, quick quizzes.</li> <li>Links to pregnancy prevention and caring for your baby.</li> <li>Development of embryo throughout pregnancy, misconeptions about pregnancy, conception and STIs</li> <li>Gardening and horticulture.</li> <li>Twins – differences between identical &amp; non- identical</li> </ul>		
	A			<ul> <li>identical</li> <li>History <ul> <li>Pollination is believed to have begun around 130-150 million years ago.</li> <li>One of the first microscopists was Antonj van Leeuwenhoek (1632–1723) who, amongst his many other discoveries, was the first to conduct rigorous observations on human spermatozoa</li> </ul> </li> </ul>		
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						<ul> <li>Careers: midwifery, fertility treatment, plant breeding, conservation, microbiologist, laboratory technician, process development, research scientist, cell biologist genetic scientist</li> <li>EDI links:         <ul> <li>Male and female genitalia at birth</li> <li>Puberty- physical differences</li> <li>Diversity &amp; inclusion – LGBT</li> <li>Awareness of difference between gender and biological gender</li> </ul> </li> </ul>
Christmas Holid	ау			6 weeks	(?? lessons) (30 Da	ays)
6-Jan	В					Equality Diversity and Inclusion (EDI) links?
		16	Overview of	Unit/No. lessons		LGBT+ History month 27/1 Holocaust memorial day
	А		Nutrition and	digestion/11 less	ons	
13-Jan		17		nee of Contants		1/2 World Hijab Day
	В		Lesson Seque	digestion:		6/2-12/2 Children's mental health week. 7/2 Safer internet day
20-Jan		18	Lesson 1-Lind	erstanding what c	liet means and	10/2 Chinese New Year
	А		how foods ca	n be grouped and	what nutrients	
27-Jan		19	are			
3-Feb	В		Lesson 2-Kno	wing what a balan	nced diet is and	
		20	how this links	s to the nutrients w	we need.	
			Lesson 3 & 4-	Using chemical re	agents to test for	
			nutrients in f	boc		
			Lesson 5 & 6-	Learning about th	e structure and	
			function of th	e digestive systen	n A a a a a a	
			Lesson /-Mod	delling absorption	of nutrients in	
			the small inte	estines	stive enzymes	
			are and how	they work inside t	he digestive	
			system	they work inside t	lie digestive	
			Lesson 9-The	consequences of	imbalances in	
			the diet			
			Lesson 10-En	d of unit test and a	application	
			Lesson 11-Lo	ng answer questio	n	
			Prior	Current	Next	
			Year 6 –	KS3 NC- The	Year 10 –	
			Lifestyle	content of a	Digestive	
			and	healthy human	system and	
			health –	diet.	enzymes.	
			impact on	-Consequences		
			the body	of imbalances		
			Year 7 -	in the diet		
			organ	- rissues and		
			SYSTEMS	human		
				digestive		
				system and		
				how food is		
	А			digested.		
10-Feb		21			·	

			<ul> <li>GW: Identify names of nutrients, foods that contain them and basic structures of the digestive system</li> <li>BI: Can link organs in the digestive system to their roles and the adaptations they have to perform the role. Can describe what a digestive enzyme is.</li> <li>EW: Can evaluate the role of digestive enzymes and explain their importance – making links to absorption.</li> <li>Assessment         <ul> <li>Starter quizzes based on previous learning</li> <li>HSW Practical task – being able to explain why certain nutrients can pass through a membrane and others cannot</li> <li>End of unit quiz</li> <li>Long answer extension question at the end of the unit</li> </ul> </li> </ul>			
Half-Term			6 weeks (?? lessons) (29 D	Days)		
25-Feb	В	22	INSET 24th Feb	• Equality Diversity and Inclusion (EDI) links?		
3-Mar	Α	23		Women's history month Ramadhan benins 1/3		
10-Mar	В	24	]	21/3 World Down Syndrome day		
17-Mar	Α	25		31/3 Transgender day of visibility		
24-Mar	В	26				
31-Mar	Α	27				
Easter Holiday	1	1	5 weeks (?? lessons) (23 Day	ys)		
22-Apr	В	28	Easter Monday 21st	Equality Diversity and Inclusion (EDI) links?		
28-Apr			Early May bank noi 6/5	Good Friday 18/A		
	Α	29	4	Easter Sunday 20/4		
5-May	~	30		Autism and stress awareness month.		
12 14-14	B	070		25/4 worla Malaria Day 26/4 Lesbian visibility day		
10 May	A	512		UK national walking month.		
TA-INIGA	В	ST2		1/5-//5 Deaf awareness week 23/05 Vesak		
Half-Term	Half-Term 7 weeks (?? lessons) (34 Days)					
2-Jun	Α	33	SJBF INSET 4/7	Equality Diversity and Inclusion (EDI) links?		
9-Jun	В	34	1	LGBTQ+ pride month.		
L						

16-Jun	Α	35	Gypsy, Roma and Traveller history month.	
23-Jun		36	12/6 World day dgainst child labour 18/6 autistic pride day	
	В		20/6 World refugee day	
30-Jun	Α	37		
7-Jul	В	38		
14-Jul	Α	39		
(Total: 189 Days)				

Based on your Flight Path         By the end of Year 7, students will have learned           GW: <ul> <li>Classify whether something is living or not using MRS GREN life processes</li> <li>Identify the parts of a plant and animal cell and the role of each of the organelles</li> <li>Know the parts that make up a light microscope and understand how to use one correctly</li> <li>Name and identify different examples of specialised plant and animal cells</li> <li>Identify substances that cells must take in and get rid of for survival</li> <li>Understand that cells are built into larger structures, with examples. Know the definitions of tissue, organ and organ system.</li> <li>Identify the roles of tissues, organs and systems</li> <li>Know that organisms have adaptations for survival in their environment and be able to identify adaptations</li> <li>Understand why organisms need to be classified</li> <li>Identify the prosence or absence of key nutrients using chemical reagents and evaluation of the practical as a qualitative test.</li> <li>Identify the key organs in the digestive system,</li> <li>Identify the key organs in the digestive system.</li> <li>Identify the key organs in the digestive system.</li> <li>Identify the reasone of specialised cells</li> <li>Describe the role of specialised cells</li> <li>Describe the role of specialised cells</li> <li>Describe the linnean system in and out.</li> <li>Describe the linnean system of classification</li> <li>Identify that is required for fertilisation to occur</li> <li>Describe the organ of the male and female reproductive system and explain how reproduction occurs.<th></th><th>Overview of Year 7</th></li></ul>		Overview of Year 7
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<ul> <li>Explain the roles of tissues, organs and systems</li> </ul>		<ul> <li>Explain the roles of tissues, organs and systems</li> </ul>

Suggest how some adaptations aid survival.
<ul> <li>Apply knowledge of classification to classify examples of organisms</li> </ul>
• Explain the key process that leads to the survival and evolution of organisms over time.
<ul> <li>Understand the stages of The Menstrual cycle and the role of hormones</li> </ul>
<ul> <li>Know the substances that pass from mother to foetus and explain the effects of this transmission.</li> </ul>
• Describe how and why seeds are spread
• Explain the role of DNA is passing on characteristics.
<ul> <li>Evaluation of food intake as a balanced diet and suggestions of how to improve the intake of nutrients.</li> </ul>
<ul> <li>Identify the presence or absence of key nutrients using chemical reagents and evaluation of the practical as a qualitative test.</li> </ul>
• Understand the role of the digestive system, identifying the key organs and how each one works.
• Evaluating a demo of the digestive system as a suitable model or how to improve it.
Explain how enzymes work

## Prompt Questions

Now that the revised curriculum has been taught, please consider the Implementation and Impact of the curriculum you taught. What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

## Please revisit the prompts from last year:

- What are the Key concepts for this unit?
- How will it link to wider disciplinary knowledge/cultural capital: history, culture, authentic artefacts, music, art, literature?
- How does it build on prior knowledge and link to other units, concepts, years, GCSE?
- What is it intended students will have learned?
- For each Unit? By the end of the Year?
  - o GW: ; BI: ; EW
- Is it worth summarising in a knowledge organiser?
- Assessment: how do you know they have learned the foundational concepts, curriculum and wider disciplinary knowledge? Does assessment look like GCSE light? Should it?
- Skills used/learned
- Tier 2/3 vocabulary ((Etymology e.g. of Greek/Latin)