## Unit of Work - Science Unit 8B Plants and their Reproduction- Year 8

Year /Group	Unit or Activity	Focus – skills and knowledge development	(Subject) Programme of Study Reference	Curriculum, learning opportunities	PLTS	Number of lessons
8	8B Plants and their reproduction	Knowledge: This unit covers reproduction in plants, both sexual and asexual, although the former is of chief importance. Classification and biodiversity are also covered. The theme that is threaded through the unit is the various uses that we have for plants.  Skills: Fair —testing-identifying variables, designing method, evaluate method	Term 1-8A/8B This unit covers reproduction in plants, both sexual and asexual, although the former is of chief importance. Classification and biodiversity are also covered. The theme that is threaded through the unit is the various uses that we have for plants.	Pupils will have 7 lessons per unit as part of a 2 unit block. Students will cover 3 blocks of 2 units per term  Cross curricular  8Bc – Physics 8Je – visible spectrum, UV light and nectar guides  8Bd – Physics 8le – air resistance  8Be – Physics 8Ja – energy transfer by light	Independent enquiry-plan and carry out practical and investigative activities, both individually and group. Self-management-assess risk and work safely in the laboratory.	7 -8B (7-8A.1 test I intervention 16 in total)
		Cross Curricular Objectives				
<ul> <li>Intition</li> <li>Description</li> <li>Ex</li> <li>8Ba-Accura</li> <li>Us</li> <li>Us</li> <li>Ev</li> <li>8Bb- Types</li> <li>Re</li> <li>Ex</li> <li>8Be-Germin</li> </ul>	ication and Biodiversiterpret scientific organisms escribe how organisms plain the importance or and Estimates- Lise samples to calculate accuracy as a criterical tale your method of Reproduction-LI—ecall the difference becall examples of asexplain characteristics on ation LI- How does gescribe what happens	Literacy: summarising texts. Information can be presented in different ways to communicate scientific ideas clearly. This includes understanding paragraph construction (using ideas of unity, cohesion and order) to develop logical and fluid text that communicates information clearly  Numeracy:  • use appropriate units for area measurements • calculate areas for squares and rectangles • use a sample to calculate an estimate of population size.				

ICT:

**Communication:** 

		Information can be presented in different ways to communicate scientific ideas clearly. This includes understanding paragraph construction (using ideas of unity, cohesion and order) to develop logical and fluid text that communicates information clearly.  SMSC:
Assessment Criteria / Expectations – including formative and feedback	Resources	Continuity and Progression
(How: 8B End of unit test. When: lesson 8 By whom: class teacher)	Active Learn Web site.	(link/development of previous learning
	Google Drive- Folder 8B	objectives/units/achievements)
Summative unit test: 8A/B (Taken at end of 2 unit block as part of a 2 unit test, teacher assessed.)  Skills task: Specify prac write up/planning task from your unit. (Completed during unit, teacher assessed.)  Formative assessment -6 mark Q	Resources from 8B Exploring Science.  Located on Drive: Science Department 2016-17 /KS3/Y8/8B	From KS2 most students will be able to:  • describe the life process of reproduction in some plants and animals (Year 5).  From previous units, most students will have covered:  • plant cells, tissues, organs and organ systems (7A)  • photosynthesis (7A)  • sexual reproduction in humans (7B)  • respiration (7C)  • inherited variation (7D)  • food as a store of energy (7I).

## Week by Week SCHEME OF WORK & ASSESSMENT for (Science–Unit 8B / Year 8)

Date/Week	Subject content/Topic	Knowledge base – link to	Skills in focus	Students' programme of	Assessment: method,	Resources: hyperlink or	Homework			
·	,	previous learning		study and activities	feedback and improvement  – shared with all	physical location for all				
Week (1)	Lesson 1-3 Classification, Biodiversity,	describe the life process of reproduction in some	Fieldwork Estimating populations	3 powerpoint lessons. Associated	In-built activities to summarise learning.	Active learn website www.activeteachonline.com	Core homework on Science Drive. Self contained			
Number of	sampling populations Types of reproduction	plants and animals (Year 5).	Calculations- mathematical skills.	worksheets/activities.	Opportunities for Peer/Self assessment within each	Drive:	worksheets can also be used for homework			
lessons: 3	Types of reproduction	sexual reproduction in	Note taking, recall		lesson.	https://drive.google.com/drive	TOT HOMEWORK			
		humans (7B)	information. Applying							
Unit: 8A			knowledge.							
Dates:										
	Resources and general notes  All lessons/activities are on powerpoint slides- with suggestions for extension activities and the folder includes ALL the worksheets (plus extra) for the lessons.									
Date/Week	Subject content/Topic	Knowledge base – link to previous learning	Skills in focus	Students' programme of study and activities	Assessment: method, feedback and improvement – shared with all	Resources: hyperlink or physical location for all	Homework			
	Lesson 4-6	food as a store of energy	Practical skills-investigating	3 powerpoint lessons.	In-built activities to	Active learn website	Core homework on Science			
Week (2)	Pollination, fertilisation and	(7I). plant cells, tissues,	factors on seed dispersal	Associated	summarise learning.	www.activeteachonline.com	Drive. Self contained worksheets can also be used			
Number of	seed dispersal	organs and organ systems (7A), photosynthesis (7A)	Note taking, recall information. Applying	worksheets/activities.	Opportunities for Peer/Self assessment within each	Drive:	for homework			
lessons: 3		respiration (7C) inherited variation (7D)	knowledge.		lesson.	https://drive.google.com/drive				
Unit: 8A		interdependence (7D) food as a store of energy (7I)								
Dates:		G/ C/								
	Resources and general notes  All lessons/activities are on powerpoint slides- with suggestions for extension activities and the folder includes ALL the worksheets (plus extra) for the lessons.									
Date/Week	Subject content/Topic	Knowledge base – link to previous learning	Skills in focus	Students' programme of study and activities	Assessment: method, feedback and improvement – shared with all	Resources: hyperlink or physical location for all	Homework			
(0)	Lesson 7	photosynthesis (7A)	Practical skills	1 powerpoint lesson.	In-built activities to	Active learn website	Core homework on Science			
Week (3)	Germination/ life cycle	respiration (7C) food as a store of energy (7I)	Note taking, recall information. Applying	Associated worksheets/activities.	summarise learning.  Opportunities for Peer/Self	www.activeteachonline.com	Drive. Self contained worksheets can also be used			
Number of		1000 d3 d 3tore of effergy (71)	knowledge.	worksheets, activities.	assessment within the	Drive:	for homework			
lessons: 3			-	Quick Quiz to assess learning	lesson.	https://drive.google.com/drive				
Unit: 8A	Tost		Extracting information to	from unit.						
UIIII: 8A	Test		answer questions.	Test: formative assessment.						
Dates:	Intervention lessons based on test results.		Revision							
	Resources and general notes									
	All lessons/activities are on powerpoint slides- with suggestions for extension activities and the folder includes ALL the worksheets (plus extra) for the lessons.									

(Plan in intervention time to each unit)