Curriculum Plan	Subject	Biology	Year	13
Spring 2	**W/C 22nd February**	**W/C 1st March**	**W/C 8th March**	
How you will access home learning	The PowerPoint and lesson materials will be available in the Year 13 group on Microsoft (MS) Teams and on g drive, in the home learning biology folder and select Y13 then the current topic folder. You will need access to your Biology Year 2 and your Biology year 1 textbook you have at home. Both books are also available o Kerboodle.			
How you be able to interact with your teacher and gain feedback on your work	Most lessons will be delivered live. You can interact with your teacher by asking any questions about the work by using the chat function on the year 13 Microsoft Team Class during the lesson. You can also email your teacher directly. Your teacher will monitor your scores on specific assessments, Kerboodle quizzes, SMHW quizzes etc and you will be able to submit written work for feedback through the online submission function on MS teams or email. Any work set via SMHW can also be submitted on SMHW. Your teacher will direct you to the tasks and the submission for each task set.			
Retrieval How we will help you to recall previously learnt knowledge	Y12 recap question to help with synoptic at the start of each new area in the topic. There will be 'last lesson recall' - questions about the previous lessons' content. These will be at the start of each PowerPoint which will be uploaded to MS Teams and g drive (see above for more detail on location).	Y12 recap question to help with synoptic at the start of each new area in the topic. There will be 'last lesson recall' - questions about the previous lessons' content. These will be at the start of each PowerPoint which will be uploaded to MS Teams and g drive (see above for more detail on location).	Y12 recap question to help with synoptic at the start of each new area in the topic. There will be 'last lesson recall' - questions about the previous lessons' content. These will be at the start of each PowerPoint which will be uploaded to MS Teams and g drive (see above for more detail on location).	
New Learning – What you will be learning about this week	Chi squared in genetics. Revision of all different genetic crosses for the topic.	Inherited change test. New topic: Population genetics – Hardy Weinberg, & variation.	Test feedback. Natural selection and types of selection.	
New Learning – How we will teach you the new knowledge or ideas	PowerPoint content and teacher led explanations on the basic principles of chi squared in genetics. Homework booklet review. Test yourself sheet. Appropriate video links are in each PowerPoint. These should be watched to help gain a deeper understanding of the content and consolidate the learning for that lesson.	PowerPoint content and teacher led explanations on the basic principles of population genetics. Use of whiteboards to use the Hardy-Weinberg equations in calculating population genetics. Use of diagrams to explain the peppered moth as an example of population genetics and variation in phenotypes. Use of graphs to explain normal distribution curves.	PowerPoint content and teacher led explanations on the link between variation and natural selection. In addition, information on the different types of selection and the effect these have on phenotypes. Use of graphs to explain selection and the role of overproduction of offspring. Independent task consolidating population genetics and variation.	

			Appropriate video links are in each PowerPoint. These should be watched to help gain a deeper understanding of the content and consolidate the learning for that lesson.	Appropriate video links are in each PowerPoint. These should be watched to help gain a deeper understanding of the content and consolidate the learning for that lesson.
	Activities that will help you learn and practice what you've been taught	Questions and tasks will be set for you to answer in the PowerPoint as you follow the instructions on the slides. You can use of the statistics booklet to recap chi squared calculations. You have been issued with the homework book with exam questions which can be completed and used to revise genetic crosses. You have been issued with a test yourself sheet which can be used to check understanding of the full topic. you will self-assess. Revision grids and mind maps can be used to supplement revision notes. Use of Kerboodle and SMHW quizzes to aid revision.	Questions and tasks will be set for you to answer in the PowerPoint as you follow the instructions on the slides. Diagrams will be provided on worksheets. You will be issued with the homework book with exam questions which can be completed throughout the topic. Summary questions available in the textbook or o Kerboodle to help consolidate knowledge.	Questions and tasks will be set for you to answer in the PowerPoint as you follow the instructions on the slides. Diagrams will be provided on worksheets. You will be have been issued with the homework book with exam questions which can be completed. The independent task will allow you to consolidate your knowledge and it will be self-assessed to allow you to identify any target areas for development. Summary questions available in the textbook or o Kerboodle to help consolidate knowledge.
	What you can do if you are stuck	You can ask any questions in live lessons using the chat function on MS Teams or email the teacher directly. The MS Teams lessons will be recorded so you can refer to teacher explanations and listen to them again. You can use your textbooks or online Kerboodle textbook to refer to any previous content. If you have questions in relation to any of the exam questions in homework booklets or test yourself, you can use the frameworks provided, and modelled explanations, to help you answer the questions. If you need to e-mail me to ask a question, then please attach a copy of the work that you have completed so far, so I can be specific in giving you feedback and help.		

		W/C 15th March	W/C 22nd March	W/C 29th March
How you will access home learning		The PowerPoint and lesson materials will be available in the Year 13 group on Microsoft (MS) Teams and on g drive, in the home learning biology folder and select Y13 then the current topic folder. You will need access to your Biology Year 2 and your Biology year 1 textbook you have at home. Both books are also available o Kerboodle.		
How you be able to interact with your teacher and gain feedback on your work		Most lessons will be delivered live. You can interact with your teacher by asking any questions about the work by using the chat function on the year 13 Microsoft Team Class during the lesson. You can also email your teacher directly. Your teacher will monitor your scores on specific assessments, Kerboodle quizzes, SMHW quizzes etc and you will be able to submit written work for feedback through the online submission function on MS teams or email. Any work set via SMHW can also be submitted on SMHW. Your teacher will direct you to the tasks and the submission for each task set.		
Retrieval How we will help you to recall previously learnt knowledge		Y12 recap question to help with synoptic at the start of each new area in the topic. There will be direct recall of Y12 knowledge on selection taught in section 4. There will be 'last lesson recall' - questions about the previous lessons' content. These will be at the start of each PowerPoint which will be uploaded to MS Teams and g drive (see above for more detail on location).	Y12 recap question to help with synoptic at the start of each new area in the topic. There will be direct recall of Y12 knowledge on mutations taught in section 4. There will be 'last lesson recall' - questions about the previous lessons' content. These will be at the start of each PowerPoint which will be uploaded to MS Teams and g drive (see above for more detail on location).	Y12 recap question to help with synoptic at the start of each new area in the topic. There will be direct recall of Y12 knowledge on transcription and translation taught in section 4. There will be 'last lesson recall' - questions about the previous lessons' content. These will be at the start of each PowerPoint which will be uploaded to MS Teams and g drive (see above for more detail on location).
New Learning	What you will be learning about this week	Isolation and speciation, revision of chapter.	Revision of chapter followed by Population genetics test. New topic: control of gene expression. Gene mutations & mutagenic agents	Stem cells and totipotency. Regulation of transcription & translation.
	How we will teach you the new knowledge or ideas	PowerPoint content and teacher led explanations on the three different types of selection. Use of graphs to explain the effect of each different type of selection on phenotypes. Appropriate video links are in each PowerPoint. These should be watched to help gain a deeper understanding of the content and consolidate the learning for that lesson.	PowerPoint content and teacher led explanations on the different types of gene mutations. This is linked int with mutagenic agents – examples of different agents increasing the mutation rate. Appropriate video links are in each PowerPoint. These should be watched to help gain a deeper understanding of the	PowerPoint content and teacher led explanations on the different types of stem cells and the definitions of the different types of totipotency. Independent task to consolidate these ideas. PowerPoint content and teacher led explanations on regulation of transcription using the example of the

		Homework booklet review.	content and consolidate the learning for that lesson.	oestrogen gene; explanations of the regulation of translation using siRNA. Appropriate video links are in each PowerPoint. These should be watched to help gain a deeper understanding of the content and consolidate the learning for that lesson.
	Activities that will help you learn and practice what you've been taught	Questions and tasks will be set for you to answer in the PowerPoint as you follow the instructions on the slides. Diagrams will be provided on worksheets. Revision grids and mind maps can be used to supplement revision notes. Use of Kerboodle and SMHW quizzes to aid revision. You have been issued with a test yourself sheet which can be used to check understanding of the full topic. you will self-assess.	Questions and tasks will be set for you to answer in the PowerPoint as you follow the instructions on the slides. Diagrams will be provided on worksheets. You will be issued with the homework book with exam questions which can be completed throughout the topic. Summary questions available in the textbook or on Kerboodle to help consolidate knowledge.	Questions and tasks will be set for you to answer in the PowerPoint as you follow the instructions on the slides. Diagrams will be provided on worksheets. Summary questions available in the textbook or on Kerboodle to help consolidate knowledge.
	What you can do if you are stuck	You can ask any questions in live lessons using the chat function on MS Teams or email the teacher directly. The MS Teams lessons will be recorded so you can refer to teacher explanations and listen to them again. You can use your textbooks or online Kerboodle textbook to refer to any previous content. If you have questions in relation to any of the exam questions in homework booklets or test yourself, you can use the frameworks provided, and modelled explanations, to help you answer the questions. If you need to e-mail me to ask a question, then please attach a copy of the work that you have completed so far, so I can be specific in giving you feedback and help.		