Summer Term – Remotely Learning Plan

Year 10 – Biology (Separate Science 10E1 &10W1)

Week:	Instructions to Parents/Students
28B – 20th April	Variation – learn the difference between environmental and genetic variation – write a paragraph to explain these types of variation. Produce a table of example of traits that are Genetic and Environmental. Use https://www.bbc.co.uk/bitesize/guides/zsg6v9q/revision/1 to help.
29A – 27th May	Theories of evolution – Learn about Jean-Baptiste Lamarck's early theory of evolution https://www.youtube.com/watch?v=pq5HJq3ngxk Describe how Lamarck thought living organisms developed.
30B – 4th May	Natural selection and Charles Darwin – Watch https://www.youtube.com/watch?v=JOk_0mUT_JU then summarise natural selection in 4 or 5 bullet points. Use https://www.youtube.com/watch?v=2waYa0ZwoXg if you need extra help / information.
31A – 11th May	Fossil evidence – learn the different ways fossils are formed https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/7 produce a spider diagram showing 3 ways fossils are formed. Complete quiz at https://www.bbc.co.uk/bitesize/guides/z2fqcj6/test
32B – 18th May	Antimicrobial resistance – watch https://www.youtube.com/watch?v=C1LSWfEJtkA and describe how antibiotic resistance develops. Why is it suggested that we are returning to a medical world of the nineteenth century? Produce a leaflet, poster or report advising on how we prevent antimicrobial resistance, use this link to help https://www.youtube.com/watch?v=ZvhFeGEDFC8
33A – 1st June	Selective breeding – Find out what selective breeding is. What are the advantages and disadvantages of selective breeding? Use a diagram to explain the steps taken in selective breeding. Information to help can be found at https://www.bbc.co.uk/bitesize/guides/zsg6v9q/revision/3
34B – 8th June	Producing new plant varieties – recap work on selective breeding on https://www.bbc.co.uk/bitesize/guides/zsg6v9q/revision/3 then complete exam questions on selective breeding - https://www.youtube.com/watch?v=kLTe8LmN7qU&list=PLwudDi75HItBS7YjBG_rgLDN-kbUt9uts&index=10
35A – 15th June	Genetic engineering – learn the steps involved in genetic engineering https://www.bbc.co.uk/bitesize/guides/zsg6v9q/revision/4 Explain how genetic engineering is used to treat diabetes.
36B – 22nd June	Genetically modified crops – why are crops genetically modified? What is golden rice? https://www.bbc.co.uk/bitesize/guides/zsg6v9q/revision/4 Answer exam questions on genetic engineering at https://www.youtube.com/watch?v=k1gB-4UFHpI&list=PLwudDi75HItBS7YjBG_rgLDN-kbUt9uts&index=11
37A – 29th June	Problems with GM – learn about the advantages and disadvantages of GM at https://www.bbc.co.uk/bitesize/guides/zsg6v9q/revision/7 produce a table to compare these. Do you believe crops should be genetically modified? Explain why (6 marks)
38B – 6th July	The tree of life – learn the order of Carl Linnaeus classification system. Make a mnemonic to help you remember the order. Go to https://www.bbc.co.uk/bitesize/guides/z9mcqhv/revision/1 read through both pages on info and complete the quiz.
39A – 13th July	Extinction – Produce a spider diagram to show all the factors that can lead to the extinction of a species. Find out what the term mass extinction means. https://www.bbc.co.uk/bitesize/guides/zcqbdxs/revision/10 Info and exam question on https://www.youtube.com/watch?v=ItqnYPriQDw&list=PLwudDi75HItBS7YjBG_rgLDN-kbUt9uts&index=12

Useful resources:

David Attenborough First life https://www.youtube.com/watch?v=3enM7iGfIsc (fits well with this topic)

exampapersplus.co.uk

BBC Bitesize

AQA GCSE Biology (for past papers and markschemes)

Seneca (highly recommended)

https://www.savemyexams.co.uk/gcse-biology-aqa-new/topic-questions/

Past papers and mark schemes

https://filestore.aqa.org.uk/sample-papers-and-mark-schemes/2018/june/AQA-84612H-QP-JUN18.PDF

https://filestore.aqa.org.uk/sample-papers-and-mark-schemes/2018/june/AQA-84612H-W-MS-JUN18.PDF

https://filestore.aqa.org.uk/resources/biology/AQA-84611H-SQP.PDF

https://filestore.aqa.org.uk/resources/biology/AQA-84611H-SMS.PDF