9A Genetics and Evolution- Revision Worksheet Describe what environmental variation is.			Describe what happens during fertilisation and what is formed.	Complete the table below to show the role each scientist played in the discovery of DNA.
Give 3 examples of environmental variation in plants. 1. 2. 3.		Give 3 examples of environmental variation in humans.	In a class, 6 people have the blood group A, 3 B, 1 AB and 10 O. Draw a bar chart to represent this data.	Francis Crick Rosalind Franklin
		 2. 3. 		
Complete the table below:				Maurice Wilkins
Type of Variation	Definitio	n Examples		On the diagram below label the gametes, when
Continuous				fertilisation occurs and the zygote. Within each circle write the number of chromosomes present in that cell. Egg-making cell Sperm-making cell
Discontinuous			Describe the variation in the question above.	
Define the term 'classification'.			Describe, with the use of a diagram, what the normal distribution is.	
Define the term	n 'species'.			
Explain how environmental variation can cause problems with classification.			Explain why a specific characteristic is both inherited and environmental.	Describe what happens after the zygote has formed in the diagram above.
			No devide a least share management DNIA and across are	Describe what sex chromosomes are.
			Describe how chromosomes , DNA and genes are linked together.	
Describe, with examples, what inherited variation is.				Define the term 'adaptation'
	•••••			

Complete the table by defining each word:	State some changes that might cause an organism to become	Rate the following on how well you think you can do them:	
Endangered			
Extinct	endangered / extinct.		
Competition	•	I can	
Native	•	☐ Identify different types of environmental variation and explain	
Biodiversity	•	their causes.	
Explain why the relationship between red and	State 3 ways we can	Explain how environmental variation can cause problems with classification.	
grey squirrels is an example of competition .	preserve	 Identify different types of inherited variation. 	
	biodiversity.		
		Explain how sexual reproduction causes inherited variation. The second sexual reproduction causes inherited variation.	
		☐ Identify a normal distribution.	
	•	Explain what probability is.	
Describe what natural selection is.		Calculate probabilities and display them in different forms.	
Evaluin how papeared maths are an evample of not	unal calaction	☐ Outline how the structure of DNA was discovered.	
Explain how peppered moths are an example of nat	urai selection.	 Explain the importance of DNA. 	
		 Describe the relationship between chromosomes, DNA, genes, genetic information and nuclei. 	
Explain how the tilapia fish are an example of natu	ural selection.	 Explain how organisms become endangered or extinct. 	
		 Explain how adaptations affect the survival of organisms. 	
		 Explain some ways of preserving biodiversity. 	
Describe what evolution is and how it can form new	species.	☐ Recall that individuals in a population vary genetically.	
		 Explain how natural selection works on these variations. 	
		Construct balanced, convincing arguments.	