Comparing Reproduction				Define these:		Complete the flow chart for Meiosis.		
Questions	Asexual		Sexual	DNA –		Meiosis Sequence		
How many gametes?				Gene –		Step	Description	
Mitosis or Meiosis?				Chromosome –				
Is there variation?				Amino acid –		Start off with 46 chromosomes.		
Why / How?				Protein –				
Describe what fertilisation is and how it causes variation within a species: Compactance (BIOLOGY ONLY) Protein Synthesis: 1. Template -			eritance, Variation	Genome – Characteristic – Genome project –		Duplication		
		and Evolution Complete the punnet square showing the		Nucleotide – Bases –		Line up and random mixing of chromatids.		
		chances of each gender being created. Gametes		Homozygote – Heterozygote –		Cell divides twice.		
		Chances	Genotype – Phenotype – Alleles –					
2. Carrier molecules -			Compare reproduction in the dif	ferent organisms.	Describe the following diseases and state whether	(BIOLOGY ONLY) Describe the following and how they occur:		
3. Amino acids -		Organism	Comparing Reprodu Descri	they are dominant or recessive		1. Gene Expression		
4. Protein chain -		Plants			1. Polydactyl:			
		Fungi			2. Recessive:	2. Mutation		
5. Complete -		Malaria						

Screening Embryos			Describe natural selection in terms of;		Describe Genetic variation –	Characteristic	Genetic	Environment		
Method	Description	Advantages	Concerns	Mutation –			Skin colour			
						Describe Environmental	Weight			
Amniocentesis				Genetic Variation –		variation –	Eye colour			
							Hair colour			
				Survival of the fittest and evolution —			Scars			
Chorionic Villus						Describe 3 reasons why organisms become extinct.				
Sampling				Genetic Engineering:						
				What is it?	Describe the theories of dinosaur extinction:					
Comparing Genetic Technologies			What are the 4 stages?		1.					
Method Description / How it happens Advantage		Advantages	Ethics and	1. 2. Why		2. Why did scientists think low light and temperature followed after an asteroid?				
		Advantages	Limitations							
Calactiva				3.						
Selective Breeding				4.	3 things to do when using antibiotics to prevent resistant bacteria 1. 2.					
				List the benefits:						
Clanina						3.				
Cloning plants				List the concerns:		Describe how MRSA spread and the effects of this.				
(BIOLOGY ONLY)										
0.112.17										
				Fossils:		Classification models:				
Cloning animals (BIOLOGY ONLY)				List the different ways fossils can be made?	1. Two kingdoms: 2. Five kingdoms: 3. Three decreip six kingdoms:					
				1.						
ONLY)				2.	3. Three domain, six kingdoms: What is the binomial naming system?					
				3. Why is the fossil record useful?		What is the binomial naming system? What is the evidence for using the 3 domain system?				
Adult cell cloning				willy is the lossii record userui!	Archaea – Bacteria – Eukaryota –					
(BIOLOGY				Why is the fossil record incomplete?						
ONLY)				, is the result record most piece.						

(BIOLOGY ONLY) Mendel:			(BIOLOGY ONLY) Theories of Evolution			
Describe monohybrid inheritance				Theory descriptions	Problems with their ideas	
 How did Mendel discover Why did people not belie 			Lamarck			
4. Why was the discovery o	f DNA so important to our understan	ding of genetics?				
(BIOLOGY ONLY) Alfred Russel Wallace 1. Describe the work of Wallace	(BIOLOGY ONLY) Speciation 1. Why will any population contain natural genetic variation?	(BIOLOGY ONLY) Speciation and Isolation What is meant by 'isolation'? Give some examples of isolation:	Darwin			
Why did Darwin worry about Wallace publishing his work?	 Describe speciation. What is a species? 	Explain how isolation can lead to speciation: 1. 2. 3. 4. 5.	(BIOLOGY ONLY) Accepting Darwin's ideas Describe how the finches on the Galapagos islands gave evidence of natural selection: 1. 2. 3. Why did people object to Darwin's idea? 1. 2. 3. 4.			