

Name: _____

Class: _____

ACTIVITY SHEET

Chapter 7 Revision

Use this revision sheet to check your understanding and guide your revision. Identify any concepts, models or other content that require more study, and then plan your study approach.

By the end of this chapter **you should know:**

	Revise	Complete
The concept of a gene pool		
Factors affecting allele frequencies: migration, genetic drift		
Natural vs artificial selection		
Sexual selection		
The effects of natural selection: stabilising, directional, disruptive		
Microevolution vs macroevolution		
Speciation: reproductive isolating mechanisms, allopatric, sympatric		
The process of extinction		

By the end of this chapter **you should be able to:**

	Revise	Complete
Define the term 'gene pool'; give an example a gene pool for a human trait		
Explain how new alleles are created within a gene pool		
Summarise the ways in which allele frequencies change: migration and genetic drift, including the bottleneck effect and founder effect		
List examples of naturally occurring selection pressures that cause natural selection		
Compare natural selection and artificial selection		
Describe sexual selection and how this produces sexual dimorphism; include an example		
Compare the effects of natural selection: stabilising, directional and disruptive; Figure 7.14 may be useful for this		
Compare microevolution with macroevolution, including an explanation of adaptive radiation		
List the members of the family Hominidae		
Recall the biological species concept		
Summarise the mechanisms of speciation: pre-reproductive isolating mechanisms, post-reproductive isolating mechanisms, allopatric and sympatric speciation		
Describe the features of mass extinctions, including the number and possible causes		
Describe the features of a population that place them at risk of extinction		
Explain the role of conservation reserves and wildlife corridors in protecting vulnerable species		