## High Tunstall College of Science Curriculum Intent

Subject: Biology Year: 10

## **Thread 5— Inheritance, Variation & Evolution**



	Thread 5— Inheritance, Variation & Evolution			Progress		
Торіс	Key ideas		R	Α	G	
Thread 5– Inheritance , Variation & Evolution	I can explain the pros and cons of sexual and asexual	reproduction				
	I can explain the structure of DNA and the genome					
	I can explain how genetic disorders are inherited					
	I can explain sources of variation and how it is investigated					
	I can explain theories of evolution and supporting evi	dence				
	I can explain the process of speciation					
	I can explain the process of Meiosis					
	I can explain how sex is determined					
	I can explain how genetic understanding has improved	over time.				
	I can describe the impact of inherited disorders on the	e body				
Lesson	Learning Focus	Assessment	Key Words			
1	What is the genome?	Explain the importance of the ge	he genome			
2	How is DNA structured?	Describe the structure of DNA				
3	What is the difference between sexual and asexual reproduction	Compare the process of sexual and asexual reproduction				
4	How does Meiosis produce Gametes?	Explain the process of Meiosis		Meiosis		
5	What are the pros and cons of sexual and asexual reproduction?	Evaluation of the processes of asexual and sexual reproduction				
6	How do we inherit traits?	Punnett Squares		Carrier		
7	How do inherited disorders impact health?	Describe the impact of Cystic Fibrosis and Polydactyl on health				
8	How is gender determined?	Punnet Squares				
9	What's the difference between evolution and varia- tion?	Explain the role of variation in evolu- tion				
10	What evidence developed the theory of natural selec- tion	Research of the evidence collate Darwin	esearch of the evidence collated by arwin			
11	What is speciation	Explain the process of speciation		Species		
12	How has our understanding of genetics developed?	Outline the work of Mendel	Outline the work of Mendel			
13	How are organisms classified?	Completion of exam question				