## **High Tunstall College of Science Curriculum Intent**

## Subject: SEPARATE Biology Year: 10



## **Thread 2 – Infection and Response**

	Biology Thread 2			Progress		
Торіс	Key ideas		R	Α	G	
Infection	I can define the terms "communicable" and "non-communicable".					
&	I can compare examples & causes of communicable and non-communicable diseases.					
Response	I can describe how to prevent the spread of pathogens.					
	I can describe the work of Semmelweis.					
	I can describe the 3 actions of white blood cells.					
	I can explain the importance of memory cells and describe autoimmune diseases					
	I can explain how Vaccinations work					
	I can compare the effect of antibiotics and painkillers and explain how they work.					
	I can explain antibiotic resistance and evaluate the use of antibiotics.					
	I can describe the main stages in drug development, and describe barriers in re- search and development.					
	I can compare the effect of mineral deficiencies to infectious diseases.					
	I can compare the chemical, physical and mechanical barriers of defence of differ- ent named plants					
Lesson	Learning Focus	Assessment	Key Words			
1	Communicable Vs Non- communicable diseases?	Research task to answer the key questions of the lesson.	Non- Communicable		able	
2	Stopping the spread.	Compile a fact file about Semmelweis and his work and suggest other methods other than hand wash- ing, to prevent the spread of pathogens.				
3	The Immune Response	Choice of a level 1 or 2 test sheet to explain the ac- tion of white blood cells to result in immunity.	Immune		е	
4	Vaccines	Create a flow chart or story board to explain how vaccinations result in immunity.	Vaccine			
5	Antibiotics and	Research task to answer the 9 key questions of the	Antibiotic			
	Painkillers	lesson, plus a graph analysis task.				
6	Drug Development	Complete a Bronze, Silver or Gold task explaining the main stages of a drug trial, and the purpose of a placebo.				
7	Plant disease identification	Describe the symptoms of plant diseases and explain	Deficiency			

how they can be identified.

ment.

defence of different named plants.

Plant disease defence

**Review prior learning** 

8

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Compare the chemical, physical & mechanical barriers of

Identify areas of strength and areas for improve-