AQA GCSE Combined Science: Trilogy Topic Checklists **4.3 Infection and Response**

4.3.1 Communicable Diseases						
Торіс	Success Criteria	Progress				
Communicable (Infectious) Diseases	I can give a definition for the term 'pathogen' and give some examples of pathogens.					
	I can describe some ways that diseases caused by viruses, bacteria, protists and fungi are spread.					
	I can explain how the spread of diseases can be reduced or prevented.					
	I can describe how bacteria and viruses reproduce inside the body.					
	I can explain how bacteria can make us feel ill.					
	I can explain how viruses can cause cell damage.					
	I can describe how measles is spread.					
	I can describe the symptoms of measles.					
	I can explain why most young children are vaccinated against measles.					
	I can describe how HIV is spread.					
Viral Diseases	I can describe the initial symptoms of HIV infection.					
	I can explain when late-stage HIV infection (AIDS) occurs.					
	I can describe the signs of tobacco mosaic virus (TMV) infection in plants.					
	I can explain how TMV affects the growth of plants.					
	I can describe how <i>Salmonella</i> food poisoning is spread.					
Bacterial Diseases	I describe the symptoms of <i>Salmonella</i> food poisoning and explain how they are caused.					
	I can explain how the spread of <i>Salmonella</i> in poultry is controlled in the UK.					
	I can describe how gonorrhoea is spread.					
	I can describe the symptoms of gonorrhoea.					
	l can explain how the spread of gonorrhoea can be controlled.					
	I can explain why gonorrhoea is no longer easily treated with the antibiotic penicillin.					

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Торіс	Success Criteria	Progress
Fungal Diseases	I can describe how rose black spot is spread in the environment.	
	I can describe the signs of rose black spot in plants.	
	I can explain how rose black spot affects the growth of plants.	
	I can explain how rose black spot can be treated.	
Protist Diseases	I can describe how malaria is spread.	
	I can describe the symptoms of malaria.	
	l can explain how the spread of malaria can be controlled.	
Human Defence Systems	I can describe the non-specific defence systems of the human body against pathogens.	
	I can explain the role of the immune system in the defence against disease.	
	I can explain how white blood cells help to defend against pathogens by: • phagocytosis; • antibody production; • antitoxin production.	
	I can explain how vaccination prevents illness.	
Vaccination	I can explain how the spread of pathogens can be reduced by immunising a large proportion of the population (herd immunity).	
Antibiotics and Painkillers	I can describe how antibiotics, such as penicillin help to cure bacterial disease.	
	I can explain why it is important that specific bacteria are treated using specific antibiotics.	
	I can explain why the emergence of strains resistant to antibiotics is of great concern.	
	I can explain why antibiotics cannot be used to treat viral infections.	
	I can explain what painkillers are used for.	
	I can explain why it is difficult to develop drugs that kill viruses.	



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Торіс	Success Criteria	Progress	
Discovery and Development of Drugs	I can recall the plant or microorganism from which the following drugs were extracted: • the heart drug digitalis; • the painkiller aspirin; • the antibiotic penicillin.		
	I can describe how new drugs are synthesised.		
	I can explain why new drugs have to be tested and trialled before being used.		
	I can describe how preclinical testing is done in a laboratory.		
	I can describe the stages of a clinical trial using healthy volunteers and patients.		
	l can explain the use of a placebo in a double-blind trial.		