

Chapter 5: Communicable diseases

Knowledge organiser

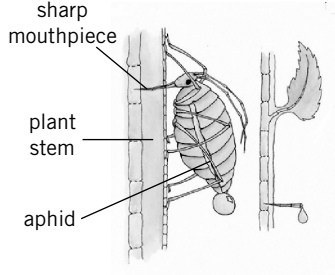
Communicable diseases			
Communicable diseases can be spread from one _____ to another.			
Viruses live and _____ rapidly inside an organism's cells. This can damage or destroy the cells.			
Viruses	Spread by	Symptoms	
measles	inhalation of _____ produced by infected people when sneezing and coughing	• •	
HIV (human immunodeficiency virus)	• •	• •	
TMV (tobacco mosaic virus – plants)	• • •	• •	

Bacteria reproduce rapidly inside organisms and may produce that damage tissues and cause illness.			
Bacteria	Spread by	Symptoms	Prevention and treatment
Salmonella		Salmonella bacteria and the toxins they produce cause: • • • •	
gonorrhoea		• •	• •

Fungi			
	Spread by	Symptoms	Prevention and treatment
rose black spot		• •	• •

Protists			
	Spread by	Symptoms	Prevention and treatment
malaria	mosquitos feed on the blood of infected people and spread the protist pathogen when they feed on another person – organisms that spread disease by carrying pathogens between people are called _____	• •	• • •

Detection and identification of plant diseases	
Signs that a plant is diseased	Ways of identifying plant diseases
• • • • • • •	• • •

Plant diseases and insects	
Plant diseases can also be directly caused by insects. _____ are insects that suck _____ from the stems of plants. This results in	
• • • Ladybirds can be used to control aphid infestations as ladybird _____ eat aphids.	

Plant defences	
Physical barriers	
• • •	
Chemical barriers	
• •	
Mechanical adaptations	
• • •	

Controlling the spread of communicable disease			
Give reasons why some factors can help prevent the spread of communicable diseases from one organism to another.			
Hygiene	Isolation	Controlling _____	Vaccination
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Key terms	
Make sure you can write a definition for these key terms.	
aphid	bacterium
sexually transmitted disease (STD)	communicable disease
	mimic
	isolation
	pathogen
	toxin
	vaccination
	fungicide
	protist
	vector
	fungus
	virus

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Retrieval questions

Answer the following questions using the information from the knowledge organiser.

B5 questions		Answers
1	What is a communicable disease?	
2	What is a pathogen?	
3	Name four types of pathogen.	
4	How can pathogens spread?	
5	How do bacteria make you ill?	
6	How do viruses make you ill?	
7	Name three examples of viral diseases.	
8	Name two examples of bacterial diseases.	
9	Name four methods of controlling the spread of communicable disease.	
10	Describe an example of a protist disease.	
11	Describe an example of a fungal disease in plants.	
12	How can the cause of a plant disease be identified?	
13	What are three mechanical defences that protect plants?	
14	Give three physical defences of plants.	
15	How can aphids be controlled by gardeners?	
16	How can plant diseases be detected?	