

Communicable diseases (viral, bacterial, fungal, protist)

Q1. (2018)

0 5

Measles is a serious disease. A person can die from measles.

Table 3 shows the number of medically confirmed cases of measles in England and Wales between 2012 and 2015

Table 3

Year	Number of medically confirmed cases of measles
2012	2030
2013	1843
2014	121
2015	91

A)

0 5 . 1

Suggest **one** reason why the actual number of cases of measles in England and Wales might be higher than is shown in **Table 3**

[1 mark]

B)

0 5 . 2

Calculate the percentage decrease in the number of medically confirmed cases of measles between 2012 and 2015

[2 marks]

Percentage decrease = _____ %

Q2. (2019)

0 4

Pathogens are microorganisms that cause infectious diseases.

0 4 . 1

What type of pathogen causes malaria?

[1 mark]Tick (✓) **one** box.

Bacterium	☐
Fungus	☐
Protist	☐
Virus	☐

Q3. (2019)

0 4 . 2 Give **two** methods used to prevent people catching malaria.

Give a reason why each method works.

[4 marks]

Method 1 _____

Reason _____

Method 2 _____

Reason _____

Q4. (2020)

Another disease caused by bacteria is salmonella food poisoning.

In the UK, chickens are vaccinated against *Salmonella* bacteria to reduce the number of cases of food poisoning in humans.

A)

0 4 . 3 Explain how vaccinating chickens reduces the number of cases of salmonella food poisoning.

[2 marks]

B)

0 4 . 4 Give **one** way that the spread of salmonella food poisoning from one human to another is controlled.

Do **not** refer to vaccination in your answer.

[1 mark]

C)

0 4 . 5 The number of cases of salmonella food poisoning is usually higher in summer than in winter.

Suggest **one** reason why.

[1 mark]

Q5. (2021)

0 4

Pathogens are microorganisms that cause diseases.

Gonorrhoea, malaria and measles are three diseases in humans.

0 4 . 1

Draw **one** line from each disease to the pathogen that causes the disease.

[3 marks]

Disease	Pathogen
<div style="border: 1px solid black; width: 100px; height: 30px; margin: 10px auto; text-align: center;">Gonorrhoea</div>	<div style="border: 1px solid black; width: 100px; height: 30px; margin: 10px auto; text-align: center;">Bacterium</div>
<div style="border: 1px solid black; width: 100px; height: 30px; margin: 10px auto; text-align: center;">Malaria</div>	<div style="border: 1px solid black; width: 100px; height: 30px; margin: 10px auto; text-align: center;">Fungus</div>
<div style="border: 1px solid black; width: 100px; height: 30px; margin: 10px auto; text-align: center;">Measles</div>	<div style="border: 1px solid black; width: 100px; height: 30px; margin: 10px auto; text-align: center;">Protist</div>
	<div style="border: 1px solid black; width: 100px; height: 30px; margin: 10px auto; text-align: center;">Virus</div>

Q6. (2022)

0 1 . 1

What are **two** similarities between a bacterial cell and an animal cell?

[2 marks]

Tick (✓) **two** boxes.

Both have a cell membrane.	☐
Both have a cell wall.	☐
Both have a nucleus.	☐
Both have cytoplasm.	☐
Both have plasmids.	☐

Q7. (2022)

0 1 . 2

Salmonella food poisoning is caused by bacteria in food.

Give **one** symptom of salmonella food poisoning.

Do **not** refer to vomiting or diarrhoea in your answer.

[1 mark]

Q8. (2023)

0 1 . 7

Measles is a communicable disease.

A virus causes measles.

Describe how the measles virus is transferred from person to person.

[2 marks]

Q9. (2023)

Athlete's foot is a communicable disease.

A fungus causes athlete's foot.

The athlete's foot fungus infects the skin on feet.

0 1 . 8 Scientists estimate that 17% of the UK population have athlete's foot.

The estimated UK population is 67 961 900

Calculate how many people are estimated to have athlete's foot.

[2 marks]

Estimated number of people with athlete's foot =

Q10. (2023)

0 1 . 9 Athlete's foot fungus grows in moist conditions.

Suggest **one** way a person could reduce their chance of catching athlete's foot.

[1 mark]

Q11. (2024)

0 3 This question is about communicable diseases.

Measles is a communicable disease caused by a pathogen.

0 3 . 1 What type of microorganism causes measles?

[1 mark]

Q12. (2024)

Norovirus is a type of virus.

0 3 . 4 Explain how viruses cause illness.

[2 marks]