## Immunity, Antibiotics and Painkillers Exam Style Questions

1. a) Suggest two reasons why parents may not want their children immunized.	(2 marks)
b) Define the term herd immunity.	(1 mark)
2. Describe how bacteria can become resistant to antibiotics.	(3 marks)



## Immunity, Antibiotics and Painkillers Exam Style Questions Answers

1. a) Suggest two reasons why parents may not want their children immunized.

(2 marks)

- · Fearful of the side effects (bad reactions).
- Vaccines do not always work.
  - b) Define the term herd immunity.

(1 mark)

Herd immunity involves a high percentage of a population being immune to a disease (due to vaccinations). The disease cannot be passed on because it cannot find a new host, and consequently dies.

2. Describe how bacteria can become resistant to antibiotics.

(3 marks)

- The bacteria can mutate.
- A population of bacteria will contain some bacteria susceptible to antibiotics and some that are resistant.
- When Antibiotics are prescribed, the susceptible bacteria are slowly killed, nothing happens to the resistant bacteria.
- The course of bacteria has been taken, and yet harmful bacteria remain.
- · The remaining bacteria can start to multiply.
- If the antibiotic is prescribed again, it will have no effect because all the bacteria are resistant.

