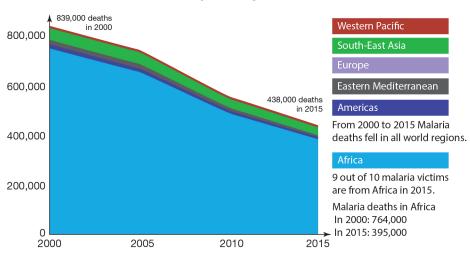
## REVIEW IT!

## Infection and response



- 1 a What is a pathogen?
  - b Name two communicable diseases that are caused by bacteria.
  - c Describe how bacterial diseases are transmitted.
  - d What type of drugs can be used to treat bacterial infections?
- 2 a Compare the structure of bacteria and viruses.
  - **b** Measles is a virus that is often caught by small children.
    - i Describe the symptoms of measles.
    - ii Identify some ways in which measles could be prevented.
  - c TMV is a virus that affects plants.
    - i What does TMV stand for?
    - ii Explain how TMV affects the growth of plants.
- 3 The graph below shows the number of deaths from malaria from 2000 to 2015.

## Global malaria deaths by world region, 2000 to 2015



- a What type of microorganism causes malaria?
- **b** i Describe the pattern of the graph.
  - ii Suggest reasons for this pattern.
- 4 a Describe two non-specific defences the body has against pathogens.
  - **b** Compare two types of white blood cell that defend the body against pathogens.
- 5 A new antibiotic (C) is being tested in a laboratory, along with two other antibiotics (A and B) that are in common use. The results are shown in the table below:

Antibiotic	Number of bacteria killed			Mean number of bacteria killed
	1	2	3	
Α	34	35	37	35
В	44	39	42	42
С	140	126	132	133

- a i Describe the results of the table.
  - ii Suggest a reason for these results.
- **b** Explain why it is important to keep making new antibiotics.