

Biology PPE Revision tasks

Revision Schedule

PPE1 Revision Task 1 – w/b Monday 1st April: Cells and microscopy

PPE1 Revision Task 2– w/b Monday 8th April: Circulatory System and exercise

PPE1 Revision Task 3 – w/b Monday 23rd April: Communicable and non-communicable disease

Resources

Collins Revision Guide

BBC Bitesize - <https://www.bbc.com/bitesize/topics/z9kww6f>

A. Infection and Response Part 1

1. What is the definition of a pathogen?

2. List four types of micro-organism which can act as pathogens.

3. Copy and complete the table to describe one similarity and one difference between how bacteria and viruses act as pathogens.

Pathogen	Similarity	Difference
Bacteria		
Virus		

4. What do pathogens need from the host organism?

5. Complete the sentences:

HIV can be successfully controlled with _____ drugs. If the immune system is badly damaged then opportunistic _____ may develop.

6. Look at this photograph.

Suggest how pathogens could be transferred in this situation.

What could people do to reduce the spread of pathogens?



B. Infection and Response Part 1b

1. Name and describe 3 ways the human body defends against the entry of pathogens.
2. What is an antigen?
3. Why will the antibody produced for measles not be effective in other diseases?
4. Why are dead or inactive pathogens used in a vaccine?
5. What is an antibiotic and what is it used for?
6. Why is there a growing concern about bacterial resistance to antibiotics?

7. Highlight which one of these statements is true?

- *Painkillers are used to treat the symptoms of a disease and kill the pathogens which cause it.*
- *Painkillers are used to kill the pathogens causing a disease.*
- *Painkillers are used to treat the symptoms of a disease but do not kill the pathogens.*