

## GCSE Biology Quiz

### Antibiotics

**Antibiotics are medicines** that have helped to control infections for many years and doctors are increasingly concerned about new strains of pathogens. Overuse of antibiotics has contributed to this ever increasing problem, leading to the discovery of new antibiotics and vaccines to combat infectious disease.

See how much you remember in your classes about antibiotics by playing this quiz.



#### 1. Antibiotics are NOT effective against...

- bacteria
- viruses
- fungi
- Protocista

#### 2. Name given to sterile handling techniques in microbiology.

- Septic
- Aseptic
- Skeptic
- Diagnostic

#### 3. What is agar used for in microbiology?

- Provide nutrients for growth
- Dilute the bacteria to avoid competition
- As an antibiotic to kill unwanted bacteria
- To maintain a sterile environment

**4. A pathogen causes...**

- addiction
- heart attacks
- disease
- hallucinations

**5. White blood cells protect us against pathogens using...**

- antibodies
- platelets
- mucous
- auxin

**6. MRSA is a type of bacteria which is resistant to...**

- antiviral drugs
- antibiotics
- pain killers
- statins

**7. Mutation of bacteria can lead to new strains of bacteria which are...**

- immune to antibiotics
- resistant to antibiotics
- susceptible to antibiotics
- killed by all antibiotics

**8. The MMR vaccine protects against measles, mumps and...**

- red eye
- rickets
- rhinitis
- rubella

**9. Bacteria must be cultured below which temperature to avoid the growth of pathogens?**

30 degrees C

35 degrees C

25 degrees C

20 degrees C

**10. Release of this substance from pathogens makes us feel ill.**

Antitoxin

Toxin

Hormone

Enzyme

## **GCSE Biology Quiz Antibiotics**

**1. Antibiotics are NOT effective against...**

- bacteria
- viruses
- fungi
- Protoctista

*Only special anti-viral drugs are effective against viruses*

**2. Name given to sterile handling techniques in microbiology.**

- Septic
- Aseptic
- Sceptic
- Diagnostic

*Aseptic techniques ensure that unwanted bacteria are less likely to be cultured*

**3. What is agar used for in microbiology?**

- Provide nutrients for growth
- Dilute the bacteria to avoid competition
- As an antibiotic to kill unwanted bacteria
- To maintain a sterile environment

**4. A pathogen causes...**

- addiction
- heart attacks
- disease
- hallucinations

**5. White blood cells protect us against pathogens using...**

- antibodies
- platelets
- mucous
- auxin

*White blood cells (leucocytes) protect us in a variety of ways including the release of antitoxins and antibodies*

**6. MRSA is a type of bacteria which is resistant to...**

- antiviral drugs
- antibiotics
- pain killers
- statins

**7. Mutation of bacteria can lead to new strains of bacteria which are...**

- immune to antibiotics
- resistant to antibiotics
- susceptible to antibiotics
- killed by all antibiotics

**8. The MMR vaccine protects against measles, mumps and...**

- red eye
- rickets
- rhinitis
- rubella

**9. Bacteria must be cultured below which temperature to avoid the growth of pathogens?**

30 degrees C

35 degrees C

25 degrees C

20 degrees C

*Culturing bacteria above 25 degrees C could lead to the growth of human pathogens which could infect us.*

**10. Release of this substance from pathogens makes us feel ill.**

Antitoxin

Toxin

Hormone

Enzyme