

Biology

3. Infection and Response

Revisiting Booklet

Name:

Communicable diseases

What is meant by the term “communicable disease”?

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What is a pathogen?

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Name the four types of pathogen.

1.
2.
3.
4.

How can pathogens spread?

1.
2.
3.

How do bacteria make us feel ill?

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How do viruses make us feel ill?

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What do bacteria and viruses have in common?

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Complete the table to name three types of viral disease.

Name of viral disease	Type of organism/group most at risk	Transmission	Symptoms	How to prevent it

Complete the table to name two types of bacterial disease.

Name of bacterial disease	Type of organism/group most at risk	Transmission	Symptoms	How to prevent it

Complete the table to name one type of fungal disease.

Name of fungal disease	Type of organism/group most at risk	Transmission	Symptoms	How to prevent it

Complete the table to name one type of protist disease.

Name of protist disease	Type of organism/group most at risk	Transmission	Symptoms	How to prevent it

Name the non-specific defence systems humans have to defend against pathogens.

1.
2.
3.
4.

How do white blood cells help to defend about pathogens?

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What does a phagocyte do?

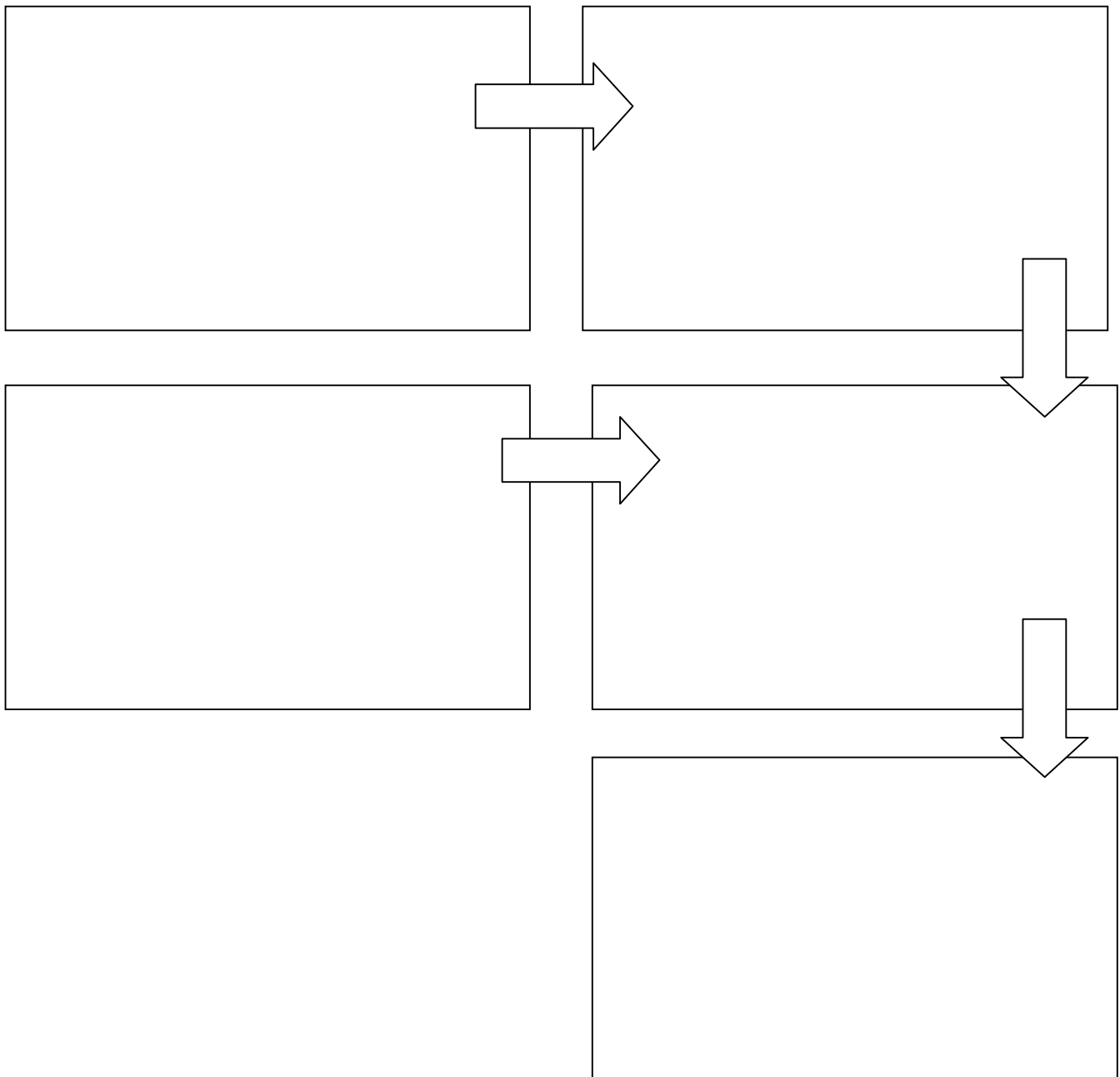
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What do lymphocytes do?

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Vaccines are used to prevent diseases.

Describe the process of vaccination.



Key words: dead, inactive, pathogen, white blood cell, antibody, antigen, memory cell

What does the MMR vaccine protect people against?

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Why is it so difficult to treat viral infections?

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What is a painkiller used to treat?

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What happens if antibiotics are overused?

What are antibiotics?

Which pathogens do antibiotics treat?

Name one antibiotic.

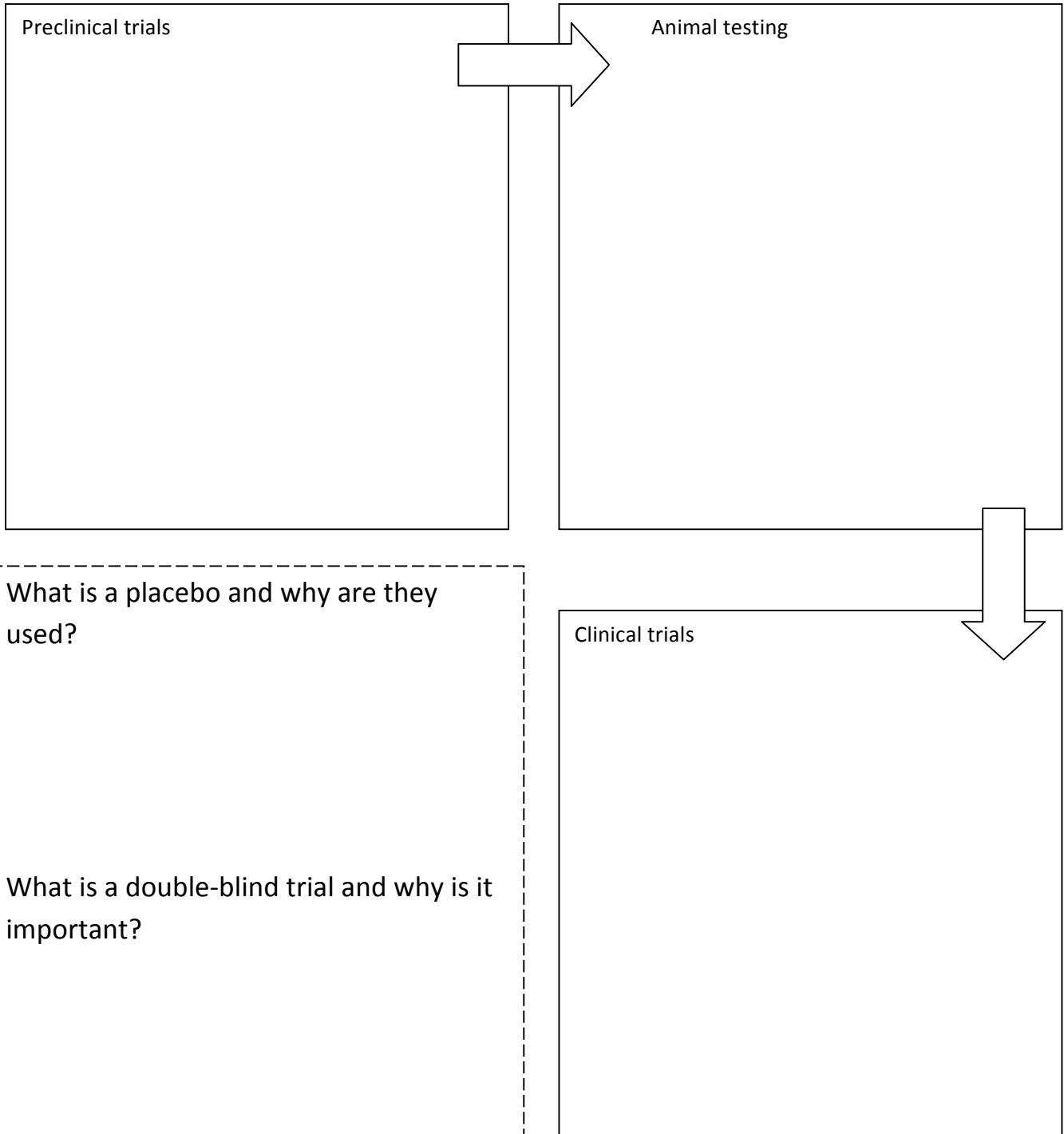


Why must drugs be tested before they are used?

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Describe the three phases of clinical trials that drugs go through.



Traditionally drugs were extracted from plants and microorganisms. Name the plant for each drug:

Heart drug digitalis (treats heart failure, heart flutter/murmur, asthma, epilepsy)

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Asprin

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Penicillin

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Most drugs today are synthesised from:

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New drugs have to be tested extensively for:

1.

2.

3.