

T Cells and Cell-Mediated Immunity

Use this worksheet after reading the lesson to practise the key ideas and prove you can meet the success criteria.

Name _____
Date _____
Class _____

1. Key Ideas

HIV does not kill by attacking the body directly. It kills by dismantling the immune system's command structure — specifically the CD4+ T helper cell. Once those are gone, neither the antibody response nor the cell-killing response can operate properly. One cell type. The entire system.

- The two main types of T cells and their surface markers
- Why MHC class I is essential for cytotoxic T cell targeting

2. Success Criteria

By the end, you should be able to:

- The two main types of T cells and their surface markers
- What cell-mediated immunity is and how it differs from humoral immunity
- How cytotoxic T cells identify and kill target cells

3. Key Terms

Once those

gone, neither the antibody response nor the cell-killing response can operate properly

defining feature of AIDS

a very low CD4+ T cell count

cells

responsible for

mediated immunity

and how it differs from humoral immunity

helper cells

the central coordinators of adaptive immunity

Immunological memory

specific; the body remembers previously encountered antigens, not all pathogens

4. Activity: Build the Lesson Map

Use the lesson to complete the table. Keep answers brief but specific.

Prompt	Your answer
Main concept	
Important example	
Common mistake to avoid	
How this links to the next lesson	

5. Short Answer Questions

1. Explain this lesson goal in your own words: "The two main types of T cells and their surface markers". Use one specific example from the lesson.

BAND 3 **2 MARKS**

2. Apply this idea to a new example: "What cell-mediated immunity is and how it differs from humoral immunity". Show your reasoning clearly.

BAND 4 **3 MARKS**

3. Analyse why this idea matters for understanding T Cells and Cell-Mediated Immunity: "How cytotoxic T cells identify and kill target cells".

BAND 5 **4 MARKS**

6. Extend: Apply the Idea

BAND 5/6

5 MARKS

A student gives a memorised answer about T Cells and Cell-Mediated Immunity but does not use evidence or reasoning.

Improve the answer by writing a stronger response that uses accurate terminology, a relevant example and a clear explanation.

7. Multiple Choice

1. What is the best first step when answering a question about T Cells and Cell-Mediated Immunity?

- A. Identify the key concept being tested
- B. Write every fact from memory
- C. Ignore the command word
- D. Skip examples and evidence

2. Which answer would show stronger understanding of T Cells and Cell-Mediated Immunity?

- A. An answer with accurate terms and reasoning
- B. A copied definition only
- C. A single-word response
- D. An answer with no example

3. What should you do if a question asks you to explain?

- A. Link the idea to a reason or cause
- B. List unrelated facts
- C. Only draw a diagram
- D. Write the shortest possible answer

8. Success Criteria Proof

Finish with evidence that you can do each success criterion.

SUCCESS CRITERION 1

Prove that you can: The two main types of T cells and their surface markers

BAND 3

2 MARKS

SUCCESS CRITERION 2

Prove that you can: What cell-mediated immunity is and how it differs from humoral immunity

BAND 4

3 MARKS

SUCCESS CRITERION 3

Prove that you can: How cytotoxic T cells identify and kill target cells

BAND 5

4 MARKS

One thing I still need help with:
