

# Chapter 19

## Organisms and their environment

### 19.1 Energy flow

01.0610\_s21\_qp\_21 Q:37

The diagram shows the flow of energy.



Which form of energy is transferred at points 1 and 3 in the diagram?

	1	3
<b>A</b>	chemical	chemical
<b>B</b>	heat	light
<b>C</b>	light	chemical
<b>D</b>	light	heat

02.0610\_s21\_qp\_22 Q:37

Which type of energy is passed from organism to organism in a food chain?

- A** light
- B** chemical
- C** heat
- D** kinetic

03. 0610\_s21\_qp\_23 Q: 37

The diagram shows energy transfer through a food chain. The labelled arrows represent the energy transfers.



Which energy transfers are shown by the labelled arrows?

- A X is heat energy transfer and Z is chemical energy transfer.
- B Y is chemical energy transfer and X is light energy transfer.
- C X is chemical energy transfer and Y is heat energy transfer.
- D Z is heat energy transfer and W is light energy transfer.

04. 0610\_m20\_qp\_22 Q: 37

Which row describes how energy flows through a biological system?

	type of energy		
	entering a biological system	transferred between organisms in a biological system	transferred from a biological system to the environment
<b>A</b>	chemical	heat	light
<b>B</b>	heat	chemical	heat
<b>C</b>	light	chemical	heat
<b>D</b>	light	heat	chemical

05. 0610\_m19\_qp\_22 Q: 35

Energy flows through a food chain.

In which form does the energy first enter the food chain?

- A chemical
- B heat
- C kinetic
- D light

19.1. ENERGY FLOW

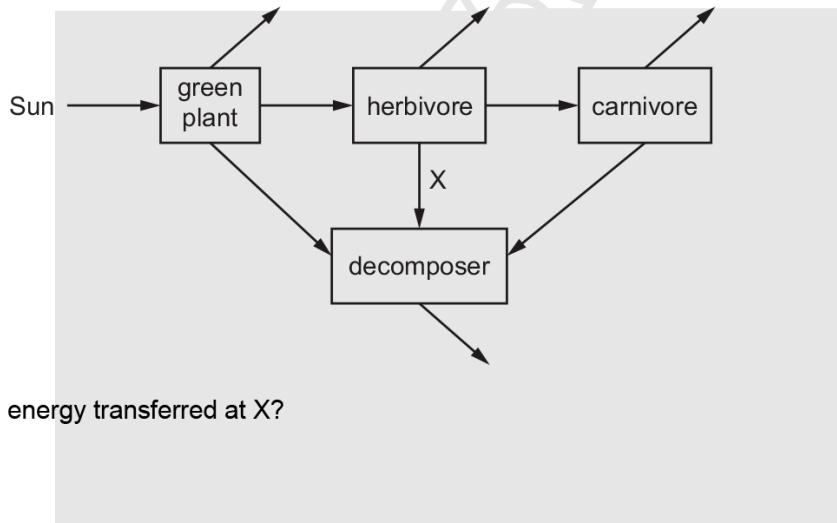
06.0610\_w19\_qp\_21 Q: 35

Which row describes the energy flow into and through a food chain that starts with a plant?

	energy entering a food chain	energy transferred between organisms in a food chain
<b>A</b>	chemical	chemical
<b>B</b>	chemical	heat
<b>C</b>	light	chemical
<b>D</b>	light	heat

07.0610\_m18\_qp\_22 Q: 32

The diagram shows energy flow through an ecosystem.



In what form is energy transferred at X?

- A** chemical
- B** heat
- C** kinetic
- D** light

08.0610\_w16\_qp\_23 Q: 34

What are possible positions in a food chain of a carnivore and a herbivore?

	carnivore	herbivore
<b>A</b>	primary consumer	producer
<b>B</b>	secondary consumer	primary consumer
<b>C</b>	secondary consumer	tertiary consumer
<b>D</b>	tertiary consumer	secondary consumer

<b>SN</b>	<b>Paper</b>	<b>Q. No.</b>	<b>Answer</b>
01	0610_s21_qp_21	37	C
02	0610_s21_qp_22	37	B
03	0610_s21_qp_23	37	A
04	0610_m20_qp_22	37	C
05	0610_m19_qp_22	35	D
06	0610_w19_qp_21	35	C
07	0610_m18_qp_22	32	A
08	0610_w16_qp_23	34	B

