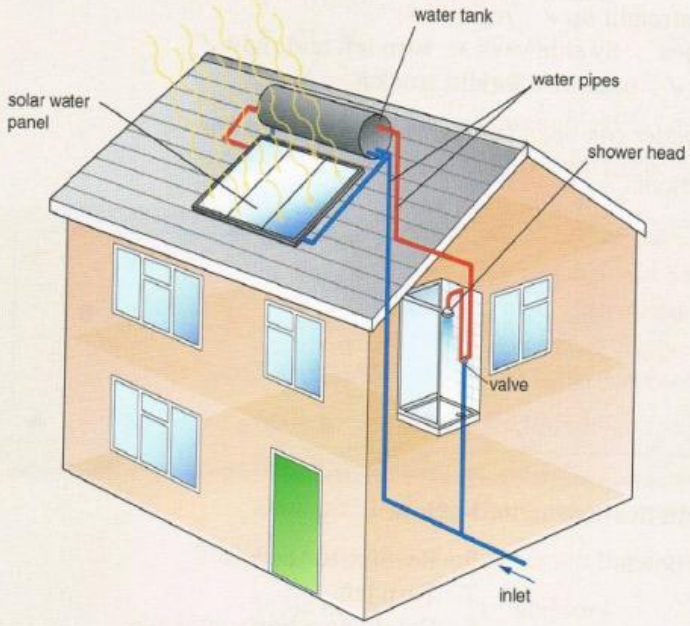
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5 Flow

1 Heating system

Start here **1** Work in groups. Which way does the water flow in this system? Draw arrows to show the direction of the flow.



Solar water heater

The main parts of this system are water pipes, a solar water panel, a water tank, an inlet, a valve and a shower head. The tank is above the solar panel.

Cold water enters the system through the inlet. (It) then flows into the tank. From (here), the water flows into the solar panel.

The Sun heats the water in the panel. The hot water rises and flows from the panel into the tank. In the tank, hot water stays at the top and cold water sinks to the bottom.

When you open the valve, hot water flows from the tank, through the valve, to the shower head. (Here), (it) finally leaves the system.

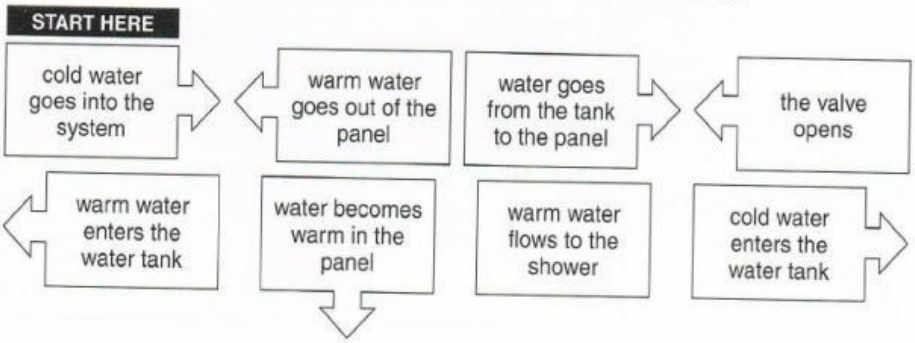
Reading **2** Read the text. Check the directions of your arrows in 1.

3 What do these words refer to?

1	It (line 6)	a) inlet	b) cold water	c) system
2	here (line 7)	a) tank	b) inlet	c) water
3	Here (line 16)	a) tank	b) valve	c) shower head
4	it (line 16)	a) shower head	b) valve	c) hot water

Example: 1 [*Cold water*] *enters the system through the inlet.* [*It*] *then ....*
In line 6, *it* refers to *cold water.*

4 Draw the flow chart, putting these boxes into the correct order.



LIVEWORKSHEETS

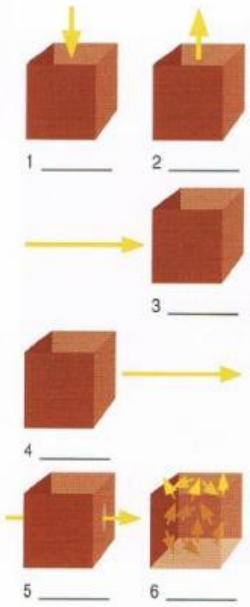
Language

The water		flow move	-s	into the tank. out of the tank.
		go pass	-es	through the pipes. around the solar panel. to the outlet. from the inlet.
The electron	-s	flow go		around the circuit. through the cables.

Vocabulary

5 Label the diagrams 1–6 with the prepositions in the box.

around from into out of through to



6 Complete the table with the verbs in the box.

enter leave rise sink

go	up	(1)
	down	(2)
	in/into	(3)
	out/out of	(4)

7 Complete the sentences with the correct form of verbs from the table in 6.

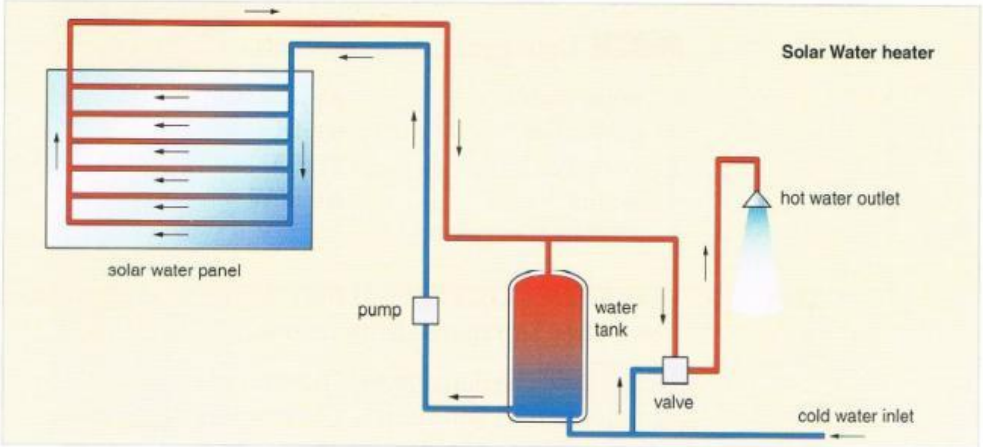
1 Water _____ the house through the inlet pipe.
2 Water _____ the solar panel through the outlet pipe.
3 When you heat the water in a tank, the hot water _____.
4 When you cool the air in a room, the cool air _____.

Task

8 Work in pairs. Explain your system to your partner.

Student A. Turn to page 114.

Student B:
1 Listen to Student A, and ask questions. Then draw a simple diagram of his/her system.
2 Explain your system to Student A.



Writing

9 Write an explanation of your system.

LIVEWORKSHEETS