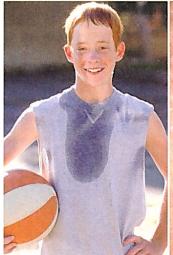
1. Describe the pictures.

2. What physical function does the skin perform?







1.	Complete	e the	correct	рı	repa	ositio	n:
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Ι.	Skin is structurally distinct mucous membranes.
2.	Hair follicles are lined cells that synthesise the proteins that form hair.
	Eccrine glands are linked the sympathetic nervous system.
4.	Hair, horns and nails are derived skin.
5.	Nails consist keratinized epidermal cells.
6.	The primary function of skin is to serve a barrier.
7.	Skin damaged burns is less effective preventing fluid loss, often resulting a
	possibly life threatening problem if not treated.
<i>2</i>	Fill in the word in brackets in the appropriate form.
1.	Genetics controls some features of hair:/bald/ and texture.
2.	Nail bed is/thick/ to form a lunula.
3.	Skin functions include/protect/,/regulate/ of body temperature and
	/sense/ reception.
4.	Skin prevents water and extracellular fluid/lose/.
5.	Melanocytes protect from the/damage/ effects of ultraviolet radiation.
6.	When a microbe penetrates the skin the/inflame/ response occurs.
7.	Water can be lost due to/evaporate/.
8.	The hypothalamus also causes /dilate/ of the blood vessels of the skin.

1) Make question so that the underlined word is the answer.

Yes, I have been working hard.

The film begins at 8 o'clock.

Something terrible happened to me last night.

10 people came to the meeting.

I want to speak to the doctor.

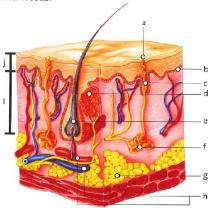
Ann has applied for the job at Mercy's hospital.

2) Use the cues to make questions

- a. Have fall over?
- b. you hurt?
- c. What think the problem?
- d. Who around when pain set in?
- e. Could describe what happen me?
- f. How long have chest pain? (looking at the patient holding his chest)
- g. There any other things like to talk about?
- h. What else you concern about?
- i. The phlegm colour?

The skin

Read the text and label the diagram with the **bold** words.



The thin outer layer of the skin is the epidermis, which is made of tough, flat cells. Dead cells at the surface form a scaly protective layer, and as these are lost, new skin cells are forming in the basal cell layer at the bottom of the epidermis. Also in this bottom layer are melanocytes, which produce the hormone melanin, which gives the skin its colour and protects it from UV light.

The skin's inner layer, the **dermis**, is made of strong, elastic tissue. It contains nerve endings and small **blood vessels**.

Sebaceous glands produce sebum, an oil that rises to the surface of your epidermis to keep your skin lubricated and waterproof.

Sweat is produced in **sweat glands**, and comes up through **sweat ducts** to the surface of the skin from where it comes out through tiny **pores**. Body hairs grow in **follicles** in the dermis.

Under the skin is a layer of **subcutaneous fat**. This keeps the body warm, absorbs shocks, and helps hold your skin to all the tissues underneath it.

Skin conditions

- Work in pairs. Look at these pictures of skin conditions and discuss what you know about them.
 - 1 What is each of the conditions called in your language?
 - 2 What are the possible causes of each one or the risk factors for developing them?



Phrasal verbs

1 Read this letter to a magazine. Work with a partner and write three pieces of advice for the letter-writer.

I've had acne since I was thirteen. Sometimes it's better and sometimes worse, but it never goes away completely. I know that the next time I need to look my best I'll **break out** in nasty spots. I've tried out every product on the market, but they've all just been a waste of money. Is there a natural way to **deal with** acne?

Read the reply. Is any of the advice the same as yours?

Acne happens when excess sebum – the skin's natural oil – blocks your pores. As skin cells **die off**, they also clog the pores, allowing bacteria to **build up**. This forms an open 'blackhead', or a covered 'whitehead'.

As far as food goes, you don't need to **cut out** fat from your diet altogether, but if you can **cut down on** deep-fried food, it should help.

Wash your face gently twice daily with a mild soap, taking care to **rinse** it **off**. If you wear make-up, make sure you **take** it **off** completely at night. And don't squeeze spots! If you burst a pimple, it may **turn into** a deep and painful cyst.

Λ	/lat	ch the bold	verbs in the te	xt v	vit	th these me	anings.
1			to solve a pro				8-1
2			place				
3	to		nave marks, sp ——			c. cover an	area of
4	to	eat or do le	ess of somethi	ng_			
5			mething that				
	_					· ·	
6	to	remove sor	nething using	clea	an	water	
7	to	stop eating	g or doing som	eth	in	g	
8	to	die, one by	one				
9	to	become so	mething diffe	rent	i _		
2	ad	hich conditi jectives to b ctionary to h	on(s) in 1 wou e used for? Wi ielp you.	ld y	ou a,	expect the b, or c. Use y	se your
	1	inflamed	·	5	iı	regular	
	2	sore		6	C	rusty	
	3	flaky		7	it	chy	
	4	cracked		8	S	caly	
3		Listen to di e adjectives	ialogues a–c a: are used in.	nd c	h	eck which d	lialogue
4		Listen agai e mentioned	n and tick (🗸) l.	the	it	ems on the	list that
	Di	alogue a					
	1	sitting dow	<i>r</i> n			exercise	
		bandage				sleep	
		compression	on stockings				
	Dia	alogue b					
		blood test				biopsy	
	Dia	alogue c					
		food				sweat	
		baths				fingernails	3
		moisturizii	ng cream			clothes	

Reading

Treating burns

- 1 Have you ever worked with patients with severe burns? Talk about the experience.
- 2 Read the texts and write the letter of a treatment (A–E) next to each description. Which treatment
 - 1 reduces tissue damage by increasing blood flow to the burn?
 - 2 involves spraying skin cells on to a burn?
 - 3 shows images of cold weather to distract the patient from pain?
 - 4 prevents the formation of raised scars?
 - 5 uses a dressing coated with metal?

- 6 reduces scarring by getting new skin to grow quickly?
- 7 requires regular wetting?
- 8 involves wearing a device shaped to fit your face?
- 9 produces new skin that does not shrink?
- 10 allows fewer pain signals to reach the brain?
- 3 Imagine you are judging these five treatments in a competition for the most imaginative technology. Give each one a mark from 1 (minimum) to 5 (maximum). Then form small groups and explain your decisions.

D ____ E ___

B C

CUTTING-EDGE TREATMENTS FOR BURNS

A Laser technology has been developed to produce an exact image of the shape of the face quickly and easily. This is then made into a transparent mask, which keeps the skin flat and prevents raised scars from forming. The tight-fitting mask, which greatly reduces disfigurement, is worn for 23 hours a day for a year or more.



B During daily wound cleaning, burn survivors experience excruciating pain and often relive the trauma of the fire. A software company has developed a virtual reality movie called *Snow World*, where the viewer is flying through snowy landscapes

and frozen water. Patients report large drops in pain while watching. MRI scans suggest that fewer signals actually reach the brain while the patient is involved in the movie.



A doctor in California discovered that the drug Heparin, when applied on to and underneath a burn, keeps blood flow to the burn high. This stops the damaged area from spreading and reduces pain. The new skin that grows is close to the original skin in colour and texture, and also does not contract — usually a great problem with burns. Added to this are the benefits of less surgery, shorter hospitalization, and the need for less medication.

D Australian researchers have pioneered a technique for culturing small samples of the patient's skin in the laboratory and

spraying them on to burns. Here they continue their growth and are added little by little until the area is completely and smoothly covered. Previous techniques involving cultured skin took around three weeks to cover a major burn, whereas this technique takes just five days, greatly reducing scarring.



E A new technique for treating burns has been developed in Australia that reduces the number of painful skin grafts by half. The treatment involves a silvercoated dressing, which helps prevent infections. The bandage needs changing less frequently, which means the patient suffers less pain, and the nurses have more time. A system of tubes allows the patient to keep the dressing moist at home, without the need for a nurse.