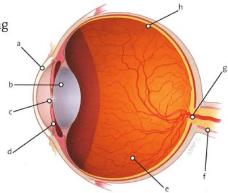
The eye

Label the parts of the eye using the words in the list. cornea iris lens macula optic nerve pupil retina vitreous humour



Reading

Glasses

- Discuss the questions with a partner.
 - For you, is wearing glasses positive or negative?
 - What is the price range for glasses with lenses in your country?
 - Imagine there were no glasses or contact lenses. How many of the people who you work with every day would not be able to work?
- 2 Read the text. Match these titles with paragraphs A–F. One title is not needed.
 - 1 The social effects of glasses
 - 2 How glasses are made
 - 3 Sight in the developing world
 - 4 The invention of glasses
 - 5 How glasses work
 - 6 An important invention
 - 7 The limited life of eyes

dilate[dai'leit], curvature [ˈkɜːvətʃə]

eyebrow, eyelid, eyelash eye socket/orbit, eyeball

aqueous humour ['eıkwıəs

conjunctiva [ˌkɒndʒʌŋkˈtaıvə]

sclera ['sklıərə]

choroid ['kɔːrɔɪd]

ciliary muscles

blind spot

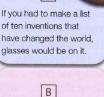
constrict

hjuːmə]

- 3 Decide whether these statements are true (T) or false (F).
 - 1 Most people of 45 need reading glasses.
 - 2 Scientific progress in the Renaissance led to the invention of glasses.
 - 3 Haloes are an example of an aberration.
 - 4 A squint is a focusing problem.
 - 5 People with hyperopia need glasses for reading.
 - 6 Glasses doubled the hours that people could work in a day.
 - 7 Cheaper glasses would help the economies of developing countries.
- 4 Do you know of any charity that helps restore vision to people in the developing world? Tell the group about it.



THE IMPORTANCE OF SEEING CLEARLY



eyesight.

A

Glasses were invented in the fourteenth century Most people's eves can and very quickly spread work efficiently for only throughout the world. about 35 years, and after Their invention was that they may need reading vital to the creative and glasses. 800 years ago intellectual progress of the there was no such thing Renaissance - a period as correcting sight and of rapid development in early in life almost everyone mathematics, science, became disabled by failing commerce, medicine, and art.

C

D Spectacle lenses correct

focus, and can be used to correct other problems too, such as aberrations (seeing ghost images, haloes, waves, or rainbows) and squints (strabismus), when the two eyes do not point in the same direction. However, their most common use is to correct longsightedness (hyperopia) - where you cannot focus on near objects, shortsightedness (myopia) - where you cannot focus on distant objects, and the loss, through ageing, of the eye's ability to change focus (presbyopia).

E

The invention of glasses freed people from the effects of ageing. At the point in their lives when their knowledge and skills were at their highest level, people could continue to read, do accounts, write, and do small-scale detailed work. Glasses have effectively doubled the length of time one can expect to live a productive life

F

The link between glasses

and poverty can be seen in developing countries today. The World Health Organisation says that 28 million people in developing countries, where a pair of glasses can cost several months' salary, are blind from treatable conditions. Educated people like engineers and teachers have to retire early, and millions never learn to read, simply because they



The Ear

The ear enables us to hear as well as maintain balance. The external part of the ear consists of auricle (-_______), the external auditory ______ (meatus) and the ______ (tympanum). The pinna is an immobile cartilaginous framework covered with skin and provides for the perception of sound. The auditory canal is an S-shaped tube which ends with the tympanic membrane separating the ______ and ______ ear. The skin of the canal is furnished with hairs and special glands which produce yellow ______ secretion for protection against insects and dust.

The middle part embodies a small cavity in the temporal bone. The cavity is connected with the nasopharynx by means of the auditory tube, known as ______. Both are lined with mucous membrane which enables infection to permeate from the throat to the middle ear.

The cavity of the middle ear contains three tiny bones called auditory ossicles (______, - ______and ______), which serve for the transmission of sound vibrations. These can be reduced by means of two miniature muscles.

The ______ ear is formed by irregularly shaped cavities containing fluid and complex membranous structures (______, _____ and ______ which are filled with a fluid termed ______ and are surrounded by ______) initiating nerve impulses. It functions as the actual receptor of sound. Sound - _____ received by the external ear hit the ______ membrane causing it to vibrate. The vibration is transmitted to the ______ in the middle ear. The stapes, which is attached to the oval window of the inner ear, causes the membrane of the inner ear to move with the sound which is thus carried forward to the canals of the inner ear and recognized by its volume.

Reported speech

1 Study the cartoons and complete the dialogues.



Nurse	Dr Weston says she's sending a patient for observation.
Ward manager	We have a bed available.
Nurse	The ward manager says theyª.
Dr Weston	Good, thank you. I suspect he has concussion.
Sarah	The doctor says

2 Past tense reporting



The next day

Nurse	Last night she told me she was in pain.	
Doctor	Where did she have the pain?	
Nurse	ª in her chest.	
Doctor	How bad was it?	
Nurse	^b unbearable.	
Doctor	Were there any other symptoms?	
Nurse	Yes, stomach-ache as well.	

3 Reporting yes / no questions



11.00

Nurse	He asked if I could help him get out of bed.		
Doctor	I see. Did he ask for any more help?		
Nurse	Yes, he asked me	ª get dressed.	
Doctor	I see, and then?		
Nurse	He asked me medicine.	$_^{\flat}$ open a bottle of	

4 Reporting wh- questions



4.00

Patient	He asked me what my date of birth was.	
Visitor	Did he? What else did he ask you?	
Patient	He asked me whereª.	
Visitor	So you told him your address. Anything else	?
Patient	Yes, he asked me when ^b . I told him that I first became ill in July.	