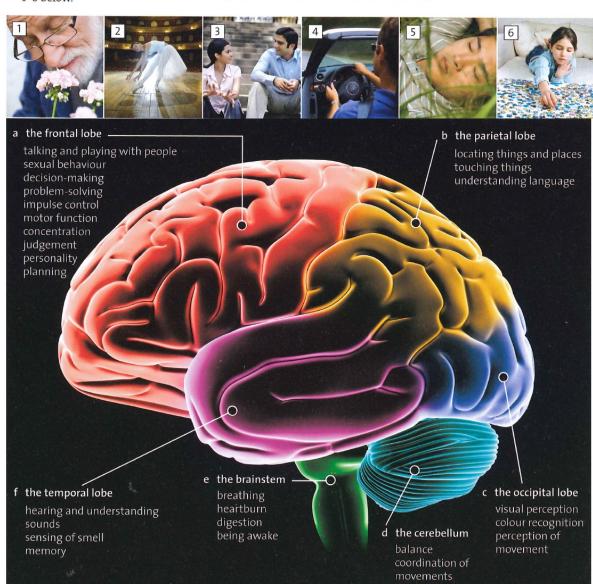
Scrub up

- Look at the map of the brain. With a partner, decide which parts of the brain a-f you would use most when doing each of the actions 1-6 below.
- 2 Listen to five people describing the effect of a head injury on a family member or friend. Decide which part of the brain a-f you think each person has damaged. Compare your answers with a partner before listening again.

1	3	5	
2	1		



Glasgow coma scale

Read about the Glasgow coma scale and complete the text with the adjectives and adverbs below.

three tests gives the patie	ent's GCS score.	
Eye response		
a eyes opening to	² command	
b no eye opening		1
c eyes opening in response	e to pain	
d eyes opening	3	

	Verbal response				
a	confused (the patient responds to questions but there is				
b	none				
С	inappropriate words (5 speech, but no conversational exchange)				
d	6 sounds (moaning, but no words)				
е	orientated (the patient responds ⁷ to simple questions)				
	Motor response				
a	withdrawal (pulls arm away) from pain				
b	extension (arms straight by sides) in response to pain				
c	no motor response				
d	obeys commands (the patient does simple things as asked)				
е	e localizing to pain (moves hand towards pain)				
f	flexion (arms8 up to chin) to pain				

First and Second Conditional

- 1 Work in pairs. Read the two sentences, spoken by a doctor. Answer the questions that follow.
 - a His blood pressure would be lower if he didn't smoke.
 - b If we break up the clot now, that'll prevent further damage to the brain.
 - 1 Which sentence talks about something which is possible in the future?
 - 2 Which sentence imagines something different from the real situation now?
- Complete the sentences

	1. If Mr. Jo	nes (not stop/drink), he (really healt.					
	2. I (not give) Mrs Rook morphine if she (not want) it.						
		3. She (probably die) if we (not operate) soon. 4. If he (not be) in hospital, he (be looked after) at home.					
	5. They (not recover) if they (not take) their medicine.						
	6. If Georg holiday.	e (be not) in hospital, he (be) on					
3	Complete the dialogue by putting the verbs in brackets in the correct tense.						
	Nurse 1	How's Mr Rigg?					
	Nurse 2 If his operation <u>goes</u> ¹ (go) well tomorrow, he <u>'ll make</u> ² (make) a full and speedy recovery.						
	Nurse 1 It's a straightforward procedure, isn't it?						
	Nurse 2	/					
	Nurse 1						
	Nurse 2	And if cycle helmets ⁷ (be) compulsory, there ⁸ (be) fewer brain injuries.					
	Nurse 1	Yes. This patient was lucky. At least he (wear) a helmet when he next (ride) his bike.					
4	If I had n I'll be ver If my cur	e these sentences in a way that is true for you. nore time, I ry happy if rent plan is successful, work anywhere in the world,					

5. Match the beginnings and endings of the sentences and

complete the appropriate tense.

1 The patient _____ (go) into shock

2 The operation _____(be) simpler

every day at home,

tomorrow,

3 If we _____ (have) another theatre,

4 If you _____ (change) your dressings

5 Antibiotics _____ (be) more effective

6 If the surgeon ____ (decide) to operate

	3		. polyps		abno the n	rmal grov ose
k), he (really	4		skills		the al	oility to us
if she	5		aortic stend	osis		rt conditi iated with y
(not				t		blem with ore of the
(be looked		-			the ar	natomy o
(not take)	8	-	acuity			bility to se s clearly
ne (be) on	9	the	surface		the su	irface of t
	10		diseases		diseas	ses of the
he verbs in	R	Reading				
	C	ase study –	a head inj	ury		
¹ (go) well _² (make) a full and	pa Fi	ou are going to atient who rece rst, read the fir ck (/) which in	eived brain ir st paragraph	ijuries of the	s four r e case s	nonths ag
cedure, isn't it?		a fractured sk			broker	leg
oma evacuated ³ (be) home by	2	a broken arm				injuries
ething unexpected	3	chest injuries				,
treating cyclists. be) so many 6 (have) more 7 (be) 6 (be) fewer	he 1 2 3 4	ead the rest of the addings with proceedings with proceeding and the Cognitive skill Psychosocial Communication Physical functions and the Personal and the addings and the communication and the cognitive statements and the cognitive statements are supported by the cognitive statements and the cognitive statements are supported by the cognitive statements are supported by the cognitive statements and the cognitive statements are supported by the c	aragraphs A- ls on cioning and r	-Е.		the
y. At least he lmet when he next ike.	th it,	ate how well yo lings. Write a n 5 = she can do brush her hai	umber from it without h	0 to 5	probab (0 = sh	ly do thes e cannot
rthat is true for you.	2 3 4 5 6 7	control her en feed herself make decisior recognize what remember inf understand he	notions ns at things are formation er disabilitie			
sentences and	8	understand w	riat people a	re say	ıng	
a he(talk) you through procedure. b if the patient(be) so or c if we(stop) the bleedir d if we(use) them less. e we(be able) to handle patients. f you(get) an infection.	verw ng qu a lot	iickly!				

Common medical adjectives

auditory

cerebral

cranial

cutaneous

1 a _____

2 _____perception

Adjectives relating to parts of the body, the sens

nasal

ocular

senile

areas of life often use Greek or Latin roots. Com the expressions with the adjectives below.

sensory

verbal

visual

the ability to h

__ haemorrhage __ bleeding in the



A Katie is able to reposition herself in bed. She can ambulate 10-15 feet with maximal assistance, but locomotes in a wheelchair. She will need physical therapy to improve coordination and balance. She requires moderate assistance transferring in and out of the bed, chair, and car. Her hearing is adequate, but she has lost the vision in her left eye. She is unable to write, but can hold

a pen, so she will need physical therapy to restore her fine motor coordination and strength.

B She needs assistance for grooming and hygiene care. She will need occupational therapy to help restore her dressing, grooming, and hygiene skills. She needs assistance using the toilet. Katie shows little interest in food, but feeds herself with small bites and has a G-tube for supplemental nutrition. She has moderate problems with both her bladder and bowel management.

C Katie's frontal lobe syndrome has left her unable to produce abstract reasoning, logical concept formation, and planning. She is no longer spontaneous and creative. She does not possess the judgement and insight required to make

safe or reasonable social and personal decisions. Her memory has been compromised for both auditory and visual processing of stimuli and retrieval of information. Although she is alert, she cannot sustain concentration sufficiently in order to learn. She is able to count, but has difficulty identifying objects. She can follow simple commands.

D She is more alert and oriented to person and can identify significant relationships. Katie has a basic understanding of simple conversations, but cannot produce or comprehend abstract thoughts. She is capable of expressing her basic needs. She is uncooperative and easily frustrated. She cries easily and shouts obscenities without provocation.

E Katie is emotional and cries frequently for brief periods of time for no particular reason, but is easily redirected. She argues because of her poor ability to overcome frustration and delay gratification. Katie is unaware of the extent of her impairment. It is predicted that she will become depressed and angry as she gains insight. Katie does not initiate recreational activities and entertainment.

CASE STUDY

Katie Martin is a nine-year-old female who was in a car crash. At the scene her Glasgow coma scale was 3. She was intubated and transported by helicopter to hospital. She was taken to the intensive care unit due to her intracranial haemorrhage which 24 hours later resulted in evacuation. She was placed on a ventilator and a tracheostomy was performed. Katie's pre-operative diagnosis was left frontal haemorrhagic contusion and multiple skull fracture. She had a left frontal craniotomy with evacuation of the intracerebral haematoma. The dural tear and skull fracture were repaired. Additionally she suffered lacerations to the liver, face, left eyelid, and a right femur fracture. Four months after the accident, her mental and physical state have improved, as outlined below.

4. Find the words bellow in the text and match them with their definitions

- 1. evacuation
- 2. tracheostomy
- 3. contusion
- 4. dural
- 5. laceration
- 6. reposition
- 7. to ambulate
- 8. grooming
- 9. bowel
- 10.retrieval
- 11.alert
- 12.to sustain
- 13.to comprehend
- 14.impairment

- a. the fact that a part of the body is unable to do something fully
- b. changing position
- c. the process of getting rid of solid or liquid material from e.g. the brain
- d. to understand
- e. relating to or affecting the tough membrane forming the outermost of the three coverings of the brain and spinal cord
- f. tearing or a deep cut in one's flesh or organ
- to care for the appearance, getting dressed etc. g.
- h. intestines
- mentally perceptive and responsive
- the cognitive operation of accessing information in memory
- k. walk from place to place
- surgical opening in the neck for the insertion of a catheter or tube to facilitate breathing
- m. to maintain, to keep
- n. traumatic injury of the brain, bruise of the brain tissue