Unit 3 Fitness and medical problems

Task 1 Fitness

a) Talk to your partner. The purpose of your conversation is to find out who is fitter. What questions will you use to find out?

b) Reading

What does it mean to be physically fit? Physical fitness is defined as "a set of attributes that people have or achieve that relates to the ability to perform physical activity" (USDHHS, 1996). In other words, it is more than being able to run a long distance or lift a lot of weight at the gym. Being fit is not defined only by what kind of activity you do, how long you do it, or at what level of intensity. Overall fitness is made up of five main components:

Body composition
Cardiorespiratory endurance
Flexibility
Muscular strength
Muscular endurance

(Adapted from http://www.seekwellness.com/fitness/)

Match the components of fitness from above with their definitions:

is the ability of the body's circulatory and respiratory systems to supply fuel during sustained physical activity. To improve it, try activities that keep your heart rate elevated at a safe level for a sustained length of time such as walking, swimming, or bicycling. Start slowly with an activity you enjoy, and gradually work up to a more intense pace.
is the ability of the muscle to exert force during an activity. The key to making your muscles stronger is working them against resistance. If you want to gain muscle strength, try exercises such as lifting weights or rapidly taking the stairs.
is the range of motion around a joint. In the joints it can help prevent injuries through all stages of life. If you want to improve this skill, try activities that lengthen the muscles such as swimming or a basic stretching program.

1

Task 2 Benefits of exercise

- a) Discuss. What benefits of exercise do you enjoy?
- b) Read the text. Explain the phrases in italics in your own words.

The benefits of exercise are *far-reaching*. Clinical and epidemiological studies have demonstrated that regular aerobic *exercise reduces the risk of death due to heart disease and stroke*, aids in reducing weight, helps prevent diabetes mellitus, strengthens bones, and enhances immune function. The psychological benefits are also broad, and most studies suggest *a positive relationship between physical fitness and mental achievement*.

How much exercise is enough to improve general health, reduce the risk of heart disease, and *increase longevity*? It is clear that regular exercise, along with a generally healthy lifestyle, is beneficial. People who have *sedentary lifestyles* make up half the population of industrialized societies. (Adapted from "Exercise," Microsoft® Encarta® Online Encyclopedia 2)

c) Complete the text using the first and last letters of the wo	2)	Comple	te the	text	using	the	first ar	ıd last	letters	of th	e wo	r	'(ŀ
---	----	--------	--------	------	-------	-----	----------	---------	---------	-------	------	---	----	---

To sum	nmarise, regular exe	ercise improves blood $c_{}$	n, pre	events and manages high blood
p	<i>e</i> , keeps <i>w</i>	t under control and impro	ves your s	$_{}h$ and flexibility.
Further	more, physical acti	vity improves your self-i	_e, as well as the	he ability to sleep well, manage
s	s and tension.			

Task 3 Illness and exercise

Physical activity is good for our bodies in many ways. However, there are times when illness makes some type of exercise difficult or unwise. On the other hand, there are specific exercises that can be used to help with particular conditions.

a) Read the recommendations for people with one specific condition – can you guess which one it is?

Start gradually if you are not used to regular exercise. Make sure you have a snack or drink of water when you need it, as becoming dehydrated will make you feel worse. If at any point you feel pain in your chest, arms or neck, stop exercising and rest. You must be careful about the exercise you take, especially aerobic exercise. Overdoing it will put a strain on the damaged tissue and could bring on angina.

- b) Write down advice on exercising for people with another medical condition and let the others guess what condition you have in mind.
- c) Listening

Exercise and asthma (https://www.youtube.com/watch?v=Oi bJXG7MyE)

Listen to an expert giving tips on exercising to people with asthma and take down the main points.

- What does asthma cause?
- What triggers asthma attacks?
- What are common symptoms?
- What kinds of exercise should asthmatics do? What precautions should they take?

Task 4 Modals

	35.3.3.						
	Match phrases with simila u don't have to	r meaning:	He managed to				
Не	was able to		Do you mind if I?				
Ma	ıy I?		It isn't necessary for you to				
Sh	all we?		It is forbidden				
Yo	u mustn't		You are supposed to				
Yo	u should		It was necessary for them to				
Th	ey had to		Let's				
b)	Modals expressing certain certain - must E.g. It must be true.	•	unlikely – can't It can't be true.				
	Complete the gaps with me I'll probably be going to the						
	John is sweating and can ha	rdly speak. He	be very well.				
	I'm sure it's true. It simply.	be true.					
	Oh, you be Mrs. l	Blunt. Nice to meet you	ı.				
Jenny is on an assignment in Bali, she be in her office now.							
	You can't be serious. You	be joking.					
,	without changing the me Example: I'm sure it w Itmu	eaning (there may be as love. set have been love save + past participle	<u>-</u>				
	They must have done a mis	take					
2.	It is possible that they sold t	he house.					
	They may have sold the hou	ise					
3.	I am not quite sure if she ga	ve up her job.					
	She may not have given up	the job					
4.	Maybe they did not finish th	e work.					
	They may not have finished						
5.		speech yesterday.					
	He can't have given his spe	ech yesterday					

Extra task: http://www.englishpedia.net/grammar-exercises/modals/modals-degrees-of-certainty.html

Task 5 Injuries

More than 10 million sports injuries occur each year. Most sports injuries are due to either traumatic injury or overuse of muscles or joints.

1. Wounds

A **wound** is any break in the skin or body surface. **Cuts** can be caused by sharp edges such as jewellery or stones. When the skin is cut, the blood vessels at the wound edges are cut straight across, so blood loss is very likely. **Grazes** are wounds in which the top layers of skin are scraped off. Grazes are commonly caused by a sliding fall (trip on a running track) or friction burn (hands sliding along a rope).

2. Bone injuries

A **fracture** is a break or crack in the bone. Bones can break when a *direct impact* is received (hockey stick striking the shin) or *indirect force* is produced by a twist or a wrench (a trip or stumble).

3. Joint/Muscle Injuries

Sprain

Injury to a ligament at, or near, a joint. It is often the result of a sudden or unexpected wrenching movement at the joint that pulls the bones within the joint too far apart and tears the tissues surrounding the joint.

Strain

Overstretching of the muscle, which may result in a partial tearing.

Deep bruising (soft tissue injury)

These injuries are usually accompanied by bleeding into the damaged area, which can lead to pain and swelling.

Rupture

Complete tearing of the muscle, which may occur in the fleshy part or in the tendon.

4. Heat Exhaustion

Heat exhaustion, an advanced condition of *hyperthermia*, is very common in marathon runners; especially in hot, humid conditions. The body temperature rises, which makes blood rush to the skin to cool it down. This makes less blood available to the working muscles and so extreme tiredness, breathlessness and dizziness occurs.

5. Unconsciousness

Unconsciousness occurs from an interruption of the brain's activity.

6. Shock

The circulatory system distributes blood round the body, so that oxygen and nutrients can be fed into the tissues. When the system fails, circulatory shock will develop. If not treated immediately, vital organs such as the brain may fail. A typical cause of shock is a blow to the chest (winding).

Symptoms include: cold and pale skin, shaking or chills, chest pain, a weak but rapid pulse, shallow breathing, dizziness or general weakness, vomiting, unconsciousness.

Ta (F	sk 6 Test your knowledge of injuries! Mark the following statements True (T).	or False					
	1. A wound where the top layers of skin are scraped off is called a rupture. grazes	<i>T/</i> F					
	2. Both sprains and strains affect muscles. T/F						
	3. Hypothermia occurs when the body is exposed to excessive heat. hyperthermia	<i>T/</i> F					
	4. A player who is winded and knocked to the ground could go into shock.	T /F					
	5. Shock occurs when blood pressure drops and the organs do not receive enough						
	blood.	<i>T/F</i>					
Ta	sk 7 Match the above injuries with suitable treatment:						
	 a. Lay the casualty down on the back b. Raise the legs c. Loosen tight clothing d. Keep the casualty warm 						
	B)cut						
_	ply pressure over the injury with your hand or fingers, preferably over a pad or dressing ise and support the limb above the level of the head.	g.					
	C)fracture ou should keep the casualty still and call for professional medical help. Never mosualty (unless in danger) and never let the casualty eat or drink.	ove the					
	D)unconsciousness						
Yo	u should follow the DR ABC procedure:						
D	Check for danger to both you and casualty.						
R	Check for a r esponse in the casualty.						
A	Check the airway. Is it open and unobstructed?						
В	Listen, look and feel to determine if the casualty is b reathing.						
C	Check circulation by feeling the pulse. Is the person bleeding?						
	E)heat exhaustion	ater (nothing					
	F)rupture						
Re	st the injured part.						

Apply Ice to reduce the swelling for 10 minutes (max).

Compress the injury, possibly using a bandage.

Elevate the part to decrease the blood supply.

Task 8 Complete the sentences with the words below.

bleed scar concussion minor pain swollen blister bruise scratched wound sprained

- 1. My ankle is very...swollen......
- 2. Do you ...bleed..... easily?
- 3. I've sprained..... my wrist.
- 4. This ...wound...... was caused by flying glass.
- 5. The ...bruise.....will disappear in a few days.
- 6. The operation only left a small scar.....
- 7. Look where the cat ...scratched..... me.
- 8. His injuries are all fairly...minor.....
- 9. Are you in.....pain....? Do you need an Aspirin?
- 10. I've got a terrible.....blister.....on my foot.
- 11. He lost consciousness as a result of a blow to the head and was taken to hospital with concussion.......