FLIGHT TRAINING ADELAIDE ENGLISH LANGUAGE SUPPORT PROGRAM

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VOCABULARY

HUMAN PERFORMANCE

CONTENTS

- **VOCABULARY**
- SPEAKING Definitions

GS 12

1.

Teacher Plan:	

ODULE N GS 12 HPL

ACTIVITY 1

Which body part or function do the following words refer to:

Acoustic	
Acuity	
Alveoli	
Blinking	
Capillary	
Cochlea	
Cones & rods	
Cornea	
Cramps	
Decibels	
Diaphram	
Electrocardiogram (ECG)	
Eustachian tube	
Exhale	
Expiration	
Fovea	
Fracture	
Haemoglobin	
Iris	
Otolith organ	
Pulse	
Resuscitation	
Rhodopsin	
Saccades	
Semicircular canals	
Sinuses	
Stroke	
Vestibular system	

ACTIVITY 1. Consolidation

rods and cones	rhodopsin	sinuses
fovea	electrocardiograph	vestibular system,
cochlea	acuity	haemoglobin
cramps	otolith organ	cornea
eustachian tube	exhale	strokes
alveoli	decibels	iris
expirations	semi-circular canals	acoustic

- Unless rehearsed, inputs will be lost in 15 30 sec. Information is stored as an <u>acoustic</u> or spatial or spatial code
- The clarity with which we see an object is at a maximum when the light falls on the centre of the retina (fovea) is called Visual <u>Acuity</u>
- 3. Gas will diffuse through a membrane from high to low pressure. This is the principle that allows the exchange of O₂ and CO₂ across the <u>alveoli</u> membranes in the lungs.
- 4. The <u>cochlea</u>, which converts the mechanical vibrations arriving via the ossicles into nerve signals that are transferred to the brain to be interpreted as sounds.
- 5. The retina contains two different types of photoreceptor cells, (they are photosensitive that is, sensitive to light) known as rods and cones, which are responsible for providing vision.
- 6. The <u>cornea</u> is a non-vascular (contains no blood vessels), transparent fibrous coat that covers the iris.
- 7. Physical exhaustion is indicated by slow movement, increased effort to carry out work, complains of cramps or stiff muscles.
- 8. Sound is measured in two ways: The loudness which is measured in <u>decibels</u> (dB); and the pitch, or frequency, which is measured in Hertz (Hz).
- 9. The <u>electrocardiograph</u> measures electrical activity of the heart and graphs this electrical activity on paper.
- 10. The <u>Eustachian tube</u> connects the middle ear to the nasal passages, which finally terminates at the back of the throat.
- 11. To help clear the ears on descent, swallowing, yawning and chewing are useful. If none of these works, then the Valsalva Manoeuvre can be used. Close the mouth and pinch the nose, then gently <u>exhale</u> into the pharynx and nasal region.
- 12. The more violent <u>expirations</u> that accompany sneezing and coughing will spread millions of pathogen carrying droplets at great speed over considerable distances

MODULE N GS 12 HPL words (for international cadets)

13. There is a small central area of the retina known as the <u>fovea</u>, which contains a large number of cones, but no rods,

- 14. Oxygen is transported around the body by the haemoglobin in the blood.
- 15. The <u>iris</u> is a coloured muscular diaphragm, situated behind the cornea and contains an aperture known as the pupil.
- 16. The Otolith organ works in a similar manner to the semi-circular canals; it also contains sensitive hairs and fluid.
- 17. Within the rods, a chemical called Rhodopsin is necessary for the full contrast sensitivity of the rods.
- 18. Whilst the <u>semi-circular canals</u> are able to determine angular accelerations, they are unable to perceive angular velocity.
- 19. <u>Sinuses</u> are air cavities in the cranial bones, especially those near the nose and connecting to it.
- 20. Strokes are usually caused by a blockage of, or by a burst blood vessel in the brain.
- 21. The <u>vestibular system</u>, or *balance system*, is the sensory system that provides the dominant input about our movement and orientation in space, and is situated in the inner ear.

ACTIVITY 2 Explain the following words and match them with their opposites.

11	Abnormal	1.	Beneficial
2	Acute	2.	Chronic
9	Ample	3.	Consistent
4	Autocratic	4.	Democratic
7	Deteriorate	5.	Deteriorate
1	Detrimental	6.	Impervious
3	Erratic	7.	Improve
15	Monotonous	8.	Incompetent
10	Periphery	9.	Insufficient
8	Proficient	10.	Mainstream
14	Reclined	11.	Normal
5	Recuperate	12.	Quit
13	Sporadic	13.	Regular
6	Susceptible	14.	Upright
12	Sustain	15.	Varied

words (for international cadets) ACTIVITY 2. Consolidation:

susceptible	normal	chronic
improves	erratic	consistent
deteriorate	Sporadic	severe
periphery	beneficial	upright
regular	abnormal	dehydration.
insufficient	varied	acute

- 1. The electrocardiograph gives the doctor an indication of any abnormal activity of the heart.
- 2. Stress may be <u>acute</u> (short-term), building up in a few hours or days, but being resolved fairly quickly. Or it may be <u>chronic</u>, (longer-term) affecting the person for months or years.
- 3. Exposure to air temperatures above 30°C requires 250ml of water every 30 minutes to prevent <u>dehydration</u>.
- 4. Performance begins to deteriorate in temperatures above 32° C.
- 5. An alcohol hangover is associated with a variety of symptoms that may include <u>erratic</u> motor functions and trouble sleeping.
- 6. The clarity with which we see an object deteriorates rapidly as the image moves away from the fovea towards the periphery of the retina.
- 7. <u>Sporadic</u> errors are difficult to predict as they are infrequent and unrelated. They are usually resistant to correction through training or indoctrination.
- 8. A poor diet makes a body <u>susceptible</u> to illness. Missing meals can affect performance.
- 9. A <u>severe</u> lack of oxygen for a sustained period will lead to unconsciousness, coma, brain damage and eventually, death.
- 10. If nausea continues on subsequent flights, medication may be beneficial.
- 11. Every individual is likely to have their own characteristic and <u>consistent</u> response pattern to stressful events.
- 12. Exercise <u>improves</u> both physical and mental performance as well as assisting towards a longer, healthier and more active and pleasurable life.
- 13. Further increase in 'g will inevitably lead to <u>insufficient</u> oxygen and sugar being supplied to the brain, resulting in a decrease in brain function and eventually loss of consciousness.
- 14. A useful measure of fitness is the time taken for the heart rate to return to near the resting rate. As your fitness increases, the time required to return to a near <u>normal</u> heart rate will reduce.

- 15. All pilots will have mandatory <u>regular</u> audiograms (hearing tests) as part of their medical examination requirements.
- 16. The inner ear may falsely suggest that the head is tilted while the eyes and somatosensory systems suggest that one is <u>upright</u>.
- 17. Ozone exposure limits are many, <u>varied</u> and complex, with various aviation regulatory authorities and environmental protection agencies setting differing 'safe' limits.

ACTIVITY 3: Match these words to their definitions

PERSON B

1	Hyperglycaemia	1. High blood sugar levels
6	Acute fatigue	2. Inability to sleep
10	Anxiety	3. Loss of water from the body due to perspiration
9	Bleeding	4. Low blood sugar levels
7	Cardiac arrest	5. Shaking slightly with movements you can't control because
		you are ill, cold or frightened
3	Dehydration	6. Short term tiredness after eg a busy day. Recover after a
		good sleep.
8	Exhaustion	7. Stopping of the heart
4	Hypoglycaemia	8. The state of being so tired that you have no energy left
2	Insomnia	9. The state of losing blood from the body
12	Shiver	10.Worry
5	Tremble	11. You bring food and drink back up from your stomach, out
		through your mouth.
11	Vomit	12. Your body shakes because you are cold or frightened

Ask your partner to explain the words below you don't know.

Congested
Cramps
Diabetes
Dizziness
Drowsiness
Dysentery
Fainting
Fracture
Nausea
Seizure
Shock
Ulcer

ACTIVITY 3: Match these words to their definitions

PERSON A

5	Congested	1.	A break in for example a limb.
6	Cramps	2.	A change of consciousness caused by a disturbance of blood
			flow to the brain
3	Diabetes	3.	A condition where the body can't produce enough insulin
			needed for the metabolism of glucose sugar
4	Dizziness	4.	A feeling that you are losing your balance or about to fall down
12	Drowsiness	5.	A medical condition in which an organ of the body become
			blocked with liquid eg lungs
9	Dysentery	6.	A pain you feel caused by muscles suddenly contracting eg
			stomach, leg
2	Fainting	7.	A serious physical condition in which blood cannot circulate
			properly often as a result of injury
1	Fracture	8.	A sore area on your skin that is very painful and may bleed. It
			can be external or internal
11	Nausea	9.	An infection in a persons intestines that causes severe diarrhoea
10	Seizure	10.	Another word for a fit
7	Shock	11.	Feeling going to be sick or vomit.
8	Ulcer	12.	Feeling sleepy

Ask your partner to explain the words below you don't know.

Hyperglycaemia
Acute fatigue
Anxiety
Bleeding
Cardiac arrest
Dehydration
Exhaustion
Hypoglycaemia
Insomnia
Shiver
Tremble
Vomit

words (for international cadets) ACTIVITY 4: CONSOLIDATION

dehydration	congested	diabetes
shivering	bleeding	seizure
anxiety	dizziness	drowsiness
vomiting	fainting	exhaustion
Hypoglycemia	Acute Fatigue	
nausea	Insomnia	

- 1. <u>Acute Fatigue</u> is often caused by intense mental or physical activity over a relatively short time frame and requires a relatively short recovery time.
- 2. Consideration of one's emotional state is also an important consideration for pilots. It is normal for all of us to occasionally suffer some mild anxiety, depression or fear.
- 3. Hypaemic Hypoxia occurs when there is a decrease in the amount of red blood cells (RBCs) available for O2 transport. It may be because of blood loss from severe <u>bleeding</u> (internal, or external), blood donation, from menstruation, chronic infection, or an iron deficiency in the diet causing anaemia.
- 4. Exposure to air temperatures above 30°C requires 250ml of water every 30 minutes to prevent <u>dehydration</u>. Any more than this, the body will excrete as urine.
- 5. Physical <u>exhaustion</u> can be defined as slow movement, increased effort to carry out work, complaints of cramps or stiff muscles.
- 6. <u>Hypoglycemia</u> can produce a variety of symptoms and effects but the principal problems arise from an inadequate supply of glucose as fuel to the brain, resulting in impairment of function.
- 7. The inability to sleep under normal favourable conditions is called Insomnia.
- 8. In stage 1 of hypothermia, the body temperature drops by 1-2°C below normal temperature and mild to strong shivering occurs.
- 9. Common signs and symptoms of airsickness include: nausea, <u>vomiting</u>, vertigo, loss of appetite, cold sweating, skin pallor, difficulty concentrating, confusion, drowsiness, headache, and increased fatigue.
- 10. One of the arguments against against automation is that new tasks of reprogramming are often required in congested airspace.
- 11. High blood pressure (or hypertension) can lead to a number of health problems, including coronary artery disease, strokes and <u>diabetes</u>.
- 12. Low blood pressure is less of a problem but can result in dizziness or fainting.

MODULE N GS 12 HPL words (for international cadets)

13. The hypoxic person will suffer faulty judgement, difficulty in concentrating, indecision and drowsiness.

- 14. Generally, blood pressure repeatedly greater than 140/90 is considered high and will be the cause of some concern. Low blood pressure is less of a problem but can result in dizziness or <u>fainting</u>.
- 15. Alcohol's effect on the stomach lining can result in <u>nausea</u>.
- 16. The term fit (or <u>seizure</u>) usually relates to epilepsy, which arises from problems associated with abnormal electrical activity in the brain.

ACTIVITY 4:

Look at the following definitions. Complete the words and after you have finished, Read out the definitions to and your partner must he/she give you the appropriate word.

PERSON B

Hyperglycaemia	High blood sugar levels
Insomnia	Inability to sleep
Dehydration	Loss of water from the body due to perspiration
Hypoglycaemia	Low blood sugar levels
Tremble	Shaking slightly with movements you can't control because you are ill,
	cold or frightened
Acute fatigue	Short term tiredness after eg a busy day. Recover after a good sleep.
Cardiac arrest	Stopping of the heart
Exhaustion	The state of being so tired that you have no energy left
Bleeding	The state of losing blood from the body
Anxiety	Worry
Vomit	You bring food and drink back up from your stomach, out through your
	mouth.
Shiver	Your body shakes because you are cold or frightened

PERSON A

Fracture	A break in for example a limb.
Fainting	A change of consciousness caused by a disturbance of blood flow to the brain
Diabetes	A condition where the body can't produce enough insulin needed for the
	metabolism of glucose sugar
Dizziness	A feeling that you are losing your balance or about to fall down
Congested	A medical condition in which an organ of the body become blocked with liquid
	eg lungs
Cramps	A pain you feel caused by muscles suddenly contracting eg stomach, leg
Shock	A serious physical condition in which blood cannot circulate properly often as a
	result of injury
Ulcer	A sore area on your skin that is very painful and may bleed. It can be external or
	internal
Dysentery	An infection in a persons intestines that causes severe diarrhoea
Seizure	Another word for a fit
Nausea	Feeling going to be sick or vomit.
Drowsiness	Feeling sleepy

GS 12 HPL

words (for international cadets) Activity 5

Match the following words to their definitions.

acceleration	10	1.	A characteristic that someone has.
analogue	5	2.	A pilot may mistake acceleration for pitch
autonomic	3	3.	A reaction without conscious thought
barotrauma	14	4.	An indication that something is wrong with your body
			or the way that it works that is taken as a sign of illness
conscious	22	5.	An instrument which shows what it measure by a
			pointer which moves around a dial rather than show
			numbers
episodic	12	6.	An involuntary response
fatigue	20	7.	Another brain wave pattern in sleep
hyperventilation	13	8.	Continue over a long time
illumination	17	9.	Difficult to see or hidden
obscure	9	10.	Increase in speed with time
otolith	18	11.	Make less
incapacitation	21	12.	Occurs at infrequent and irregular intervals
reduce	11	13.	Over breathing
reflex	6	14.	Pain or discomfort which arises when the pressure
			drops and the volume of gas within body cavities
			increase.
REM	15	15.	Rapid eye movement
Re-synchronise	16	16.	Re-set
Semicircular	19	17.	The lighting
canals			
Slow-wave	7	18.	The organ which responds to changes in velocity
somatogravic	2	19.	These respond to angular acceleration
sustained	8	20.	
symptoms	4	21.	
			certain things
traits	1	22.	You notice what is happening

Activity 6 CLOZE EXERCISE: Use the words in the box to complete the following sentences.

acceleration	analogue	autonomic
barotrauma	conscious	Episodic
fatigue.	hyperventilation	illumination
obscure	otolith	pilot incapacitation.
reduces	reflex	REM
re-synchronise	semicircular canals	slow-wave
somatogravic	Sustained	Symptoms
traits		

- 2. Gastro-intestinal problems are the most common cause of **pilot incapacitation**.
- 3. The **semicircular canals** detect angular acceleration
- 4. Excess alcohol reduces **REM** sleep
- 5. The illusion that the aircraft is climbing when it is actually accelerating is called **somatogravic** illusion
- 6. The function of **slow-wave** sleep is body repair.
- 7. Excessive noise levels cause **fatigue**.
- 8. Most circadian rhythms will only **re-synchronise** at a rate of 1 to 1 and a half hours per day.
- 9. Motor programmes or motor skills are behavioural sub-routines not requiring **conscious** thought.
- 10. **Episodic** memory is the memory of long term events held in the long term memory.
- 11. Trends and approximate values are better displayed by **analogue** instruments.
- 12. **Sustained** high g may cause grey-out then black-out.
- 13. The **symptoms** of hyperventilation include light headedness, rapid breathing, flushed complexion and tingling of the arms and hands.
- 14. Overbreathing causes hyperventilation.
- 15. The **otolith** organ will sense linear acceleration.
- 16. Denial is the tendency to not recognise adverse behavioural **traits** in oneself.
- 17. The **autonomic** nervous system controls normal body functions.
- 18. A **reflex** action bypasses conscious processes and acts instinctively.
- 19. Load factor is a measure of the **acceleration** experienced by a pilot.
- 20. Positive g **reduces** blood flow to the brain.
- 21. Rods are more sensitive to lower light levels of **illumination** but do not detect colour.
- 22. Pain in the middle ear and sinuses describes the condition of **barotrauma**.
- 23. Red cockpit lighting helps to preserve night vision but can **obscure** detail on WAC charts.

Human Performance Vocabulary

A colinianting lens A feminating bing Someone drinks a great deal of action of over a short period of time Abdominal pain Pain in the stormach or intestinal area Abdominal Something that is unusual in a worying or dangerous way Abstinence Deliberately not doing something that you enjoy doing Acoustic Related to sound or hearing Acousty The capacity of the eye to resolve detail. Acute fatigue Short term tiredness after eg a busy day. Recover after a good sleep. Acrodontaligia Tooth pain caused the expansion of gas on ascent to altitude. Aggressive Behaviour which has a quality of anger or determination that makes them ready to attack Alveoid Very fine air size. Hots structures in the lungs. Ambient temperature The temperature of the air above the ground in a particular place Ambiguity A word or statement which is not clear and which can be understood in more than I way Amphetamines Drugs used as pep pills Angeles Plenty, a lot Anaemia A medical condition in which you feel tired & look pale because of too few red blood cells or too little haemoglobin Analgesics Drugs used as pain relievers Analogue display An in strument which shows what it measure by a pointer which moves around a dial rather than show numbers Animan Pain in the chest indicating serious impairment of the coronary blood flow. An illness where a person has a great fear of becoming fat so they refuse to est and become thinner and thinner Anthropodmetry The study of human measurement. Apathy A state of mind where you are not interested in anything Approach Approach As a Steping disorder meaning cessation of breathing for short periods of time. Approach Approach As steping disorder meaning cessation of breathing for short periods of time. Approach Approach As a state of heing alert Assertion A belief, fact or opinion you state firmly or forcefully Correct out of shape causing a blurred vision The state of being alert Autorntic Approach as dependent of the heart Autorntic Approach as dependent of the heart Autorntic Approach as the state of losing blo		A law former designs a house of links appelled
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Antihistamines	Anthropodmetry	The study of human measurement.
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Chronic fatigue Long term tiredness	Cardiac arrest	
Chronobiology The study of biological rhythms		
	Chronobiology	The study of biological rhythms

words (for international	
Chunking	Grouping items to make it easier to remember them.
Cardiac arrest	Stopping of the heart
Circadian dysrthymia	De-synchronisation of body rhythms due to time zone crossings
Circadian rhythms	Daily variations in our physiology.
Circulation	The movement of blood through your body
Cochlea	The inner ear
Cognitive coping	Involves reducing the emotional & physiological impact of stress on the individual.
Cones and rods	Light sensitive cells on the interior surface of the retina. Cones specialise in colour perception
Colles and rods	and fine detail. Rods chiefly responsible for night vision.
Cardiac arrest	· · ·
	Stopping of the heart
Congested	A medical condition in which an organ of the body become blocked with liquid eg congested
~ .	lungs
Consciousness	The state of being awake
Consult	Ask someone for their opinion or advice
Convulsions	Uncontrolled movements
Coriolis illusion	The illusion of turning or accelerating in a different axis as a result of an abrupt head
	movement made during a prolonged constant rate turn
Cornea	Clear anterior most outer layer of the eye
Coronary artery disease	Narrowing or blockage of the arteries of the heart
Coronary thrombosis	A clot or block in a coronary blood vessel.
Cramps	A pain you feel caused by muscles suddenly contracting eg stomach cramp, leg cramp
Cyanosis	Lips and fingertips develop a blue colour – a symptom of hypoxia
Decibels	Noise levels are measured in this
Decompression	Loss of cabin pressure
Decongestant	A medicine which helps someone with a cold breathe more easily
Deference	The tendency to blame another person or circumstance for whatever goes wrong
Degradation	The process of causing the quality of something to become worse.
Dehydration	Loss of water from the body due to perspiration
Delegate	You give your power, responsibility or duties to someone so that they can act on your behalf.
Democratic	The idea that everyone should have an equal rights and should be involved with in making
	important decisions.
Denial	You refuse to accept that something is true
Detection	The act of noticing or sensing something
Deteriorate	Something becomes worse in condition or quality
Detrimental	Something has harmful or damaging effects
Diabetes	A condition where the body can't produce enough insulin needed for the metabolism of
Diabetes	
Diaghasas	glucose sugar
Diaphram	The muscle between your lungs and stomach, used for breathing
Digital display	Devices which give information by displaying numbers rather than hands
Dim light	Rather dark and does not reflect or give out much light
Discomfort	A painful feeling in part of your body when you have been hurt or been uncomfortable for a
	long time
Discrepancy	An actual difference between 2 things which ought to be the same.
Disorientated	You no longer know your direction including the direction you have come from
Disparate	Things which are clearly different from each other in quality or type.
Divided attention	You have to focus on 2 or more things at once usually in a has harmful or damaging way
Dizziness	A feeling that you are losing your balance or about to fall down
Drilled	Something which is practised again and again
Drowsiness	Feeling sleepy
Dysentery	An infection in a persons intestines that causes severe diarrhoea
Echoic memory	Information in the auditory sensory store
·	·
Elation	A feeling of great happiness
Electrocardiogram (ECG)	This measures the electrical activity in the heart.
Electroculogram (EOG)	This measures the electrical activity in the eye muscles
Electroencephalogram	This measures the electrical activity in the brain
(EEG)	
Electromyogram (EMG)	This measures the electrical activity in the chin muscles
Eliminate	To remove something completely
Empty field myopia	Occurs when the eye lacks a distant reference point on which to focus. This causes the eye to
J - F	adopt a resting position bringing the focus of the eye to about $1-2$ metres
	1 Francisco Company the room of the eje to do det 1 - 2 meters

words (for internatio	
Enhance	To improve the value or quality of something
Ephedrine	Drug often found in nasal sprays
Epilepsy	Refers to the symptoms which occur in response to a disorder of electrical activity to the brain.
Episodic memory	Includes our knowledge of specific events and is influenced by our expectations of what should happen
Erect	In a straight or upright condition
Ergonomics	The study of how equipment can be arranged in order that people can wore with them more efficiently
Erratic behaviour	Behaviour which does not follow the norm
Euphoria	A feeling of great happiness and elation
Eustachian tube	A tube with soft walls connecting the middle ear with the nose and throat
Exertion	Physical effort or exercise
Exhale	To breathe out the air which is in your lungs
Exhaustion	The state of being so tired that you have no energy left
Exhort	You try hard to persuade someone to do something
Expectancy	
Expiration	The outward breath or a period of time that is ending
Extraversion	A personality type with the traits of being impulsive, boldness, dominance and sociability.
Extremities	The furthest end or edge of something
Extrinsic	Qualities which are not part of its basic structure or nature
Fainting (syncope)	A change of consciousness caused by a disturbance of blood flow to the brain
Fatigue	Tiredness. Can be divided into acute and chronic
Fixate (Verb)	To focus on something to an excessive degree
Flu	A heavy cold caused by a virus with the symptoms of headache, joint swelling, and sinus problems
Fovea	The most sensitive part of the retina, used for fine detail. Also called the macula
Fracture	A break in for example a limb.
Gall bladder	A gland associated with the liver involved with digestion
Gastroenteritis	Symptoms include, nausea & vomiting, diarrhoea, abdominal cramps & fever
Gout	A disease which causes someone's joints to swell painfully.
Gradient	A slope or degree of steepness of a slope
Grey out	A temporary condition in which vision is hazy, restricted or otherwise impaired due to insufficient oxygen
Haemoglobin	A molecule which transports oxygen within the red blood cell
Haemorrhaging	Serious bleeding from broken blood vessels inside a person's body.
Hepatitis	A serious disease which causes the patient's liver to become inflamed.
Hertz	The unit measuring frequency or pitch of sound
Hesitation	A pause or slight delay in something that you are doing
Hygiene	The practice of keeping you and your surroundings clean in order to prevent illness or the spread of disease
Hyperglycaemia	High blood sugar levels
Hypermetropia	Long sightedness. Also called Hyperopia. Distant objects are seen clearly. Closer objects are blurred. This is corrected by the use of a convex lens.
Hypertension	High blood pressure
Hyperventilation	Over-breathing
Hypoglycaemia	Low blood sugar levels
Hypothalamus	Mediates most of the body's subconscious responses
Hypothermia	Low body temperature resulting from exposure to cold
Hypothesis	An idea which is suggested as a possible explanation for a particular situation but which has
71	not yet been proved.
Нурохіа	Describes the condition which occurs when the oxygen available to the tissues is insufficient to meet their needs
Iconic memory	Information in the visual sensory store
Impulsive	The tendency to commit to a certain course of action without giving thought to the consequences.
Incapacitation	Weakened in some way so that they are unable to do certain things
Induce	To cause a particular state or condition
Infarction	The death of an area of heart muscle due to interruption of blood supply
Ingestion	The taking in of something eg ingest food or a jet engine can ingest air or a bird
mgesuon	1 the taking in of something eg nigest food of a Jet engine can nigest all of a bird

words (for international	
Insomnia	Inability to sleep
Integrated	Closely joined so they become part of the whole
Intrinsic	Qualities which are part of its basic structure or nature
Introverted	These people spent more time thinking about themselves than the world around them.
Invulnerability	The feeling that you can't be harmed or damaged
Iris	The structure in the eye associated with controlling the amount of light entering
Joint	A part of your body where 2 bones meet and are able to move together
Kinaesthetsia	The sense that detects and estimates motion without reference to vision or hearing
Leukocytes	White blood cells
Logical	Something which seems reasonable or sensible in the circumstances
Luminance	A soft glowing light
Macho	Personality type that will take risks – nothing he can't do or will try.
Maculus lutea	
Medication	Drugs prescribed by Doctors to help a medical condition.
Metabolism	The way that chemical processes in your body cause food to be used in an efficient way
Monotonous	A regular activity which you feel never changes and makes you feel bored
Motivated	You feel determined to achieve something and are willing to work hard.
Myopia	Short sightedness – Near objects are seen clearly, distant ones are blurred. Corrected with a
Myopia	concave lens.
Nausea	Feeling going to be sick or vomit.
Numerate information	Information presented in number form
Obese	A person who is very fat
Optimal	The best amount or rate
Osteoarthritis	A disease associated with wear and tear on the joints
Otic baratrauma	Pain & injury of the ear drum as a result of a failure to restore the correct pressure inside the
	middle ear.
Otolith organ	Made up of 2 components the utricle & saccule - Acts as a linear accelerometer and responds
	to straight-line changes in velocity (fore & aft, up-and-down)
Over-reliance	Depend too much on something
Pale	A light colour- if you are sick your face may look whiter than usual
Paradoxical sleep	
Parallax error	Head movements cause objects at varying distances to move in opposite directions relative to each other
Parameter	A factor or limit which affects the way something can or should be done or made
Parasympathetic nervous	Controls the functions essential for life – respiration and circulation over which we have no
system	control.
Percentile	In statistics one of the values of a variable which is divides the distribution of the variable into 100 groups having equal frequency
Perception	A belief that you have as a result of realising or noticing something or an awareness of things
1	by means of your senses in particular your sense of sight
Periphery	Things on the edge of something
Perspective	The ability to think clearly about a situation and consider it in relation to everything else
Perspiration	Sweating
Phychosis	A form of psychiatric illness associated with loss of insight or contact with reality.
Pituitary gland	The master gland located in the brain, effecting growth, sexual development and other
- Italian y Blanta	functions of the body
Pooling	Grouping something eg ideas together
Pregnancy	A woman is developing a baby in her body
Preoccupation	Something you think about a lot because it's important to you
Preoccupied	You think a lot about a particular idea or problem and are therefore unaware of other things.
Presbycusis	Hearing deterioration as part of the process of growing old A form of long of long sight drops associated with the process of growing old
Presbyopia Prescription drugs	A form of long of long-sightedness associated with the process of growing old
Prescription drugs	Drugs ordered by a Doctor by writing on a form which is given to a chemist
Prickly sensation	The feeling that there are a lot of sharp points sticking into you
Proficiency	Ability or skill in something
Profuse	Used to indicate that the quantity of something is very large
Profuse sweating	Sweating a lot
Prolonged	An event which continues for a long time or longer than expected
Proprioceptive system	The systems of the body that give the pilot his sense of orientation eg ear and nerves in
	muscles

words (for international	
Pulse	The regular beating of blood through your body which you can feel when you touch particular
	parts of your body
Random	Something happens without a definite plan, pattern or purpose
Rash	A lot of spots or areas of rough skin that appear on areas of your skin
Reclined	Sitting with the upper part of your body supported at an angle
Recuperation	Recover your health or strength especially after you have been ill
Reflex action	An involuntary response evoked by a stimulus
Rehearse	Practice something in preparation for a 'performance'.
Remedy	A successful way of dealing with a problem
Resignation	An unwillingness to take control of a situation and do something different when the
Resuscitation	unexpected happens.
	To revive someone by who has stopped breathing eg by mouth to mouth The length of time you can remember something
Retention span Rhodopsin	Rods to function properly in night vision need to be primed with this substance
Risky shift	A group of people are more likely to take more risks than one individual would take if he/she
Kisky siiit	acted alone.
Rupture	To tear or burst open eg a tyre on landing
Saccades	The movement of the eye in jerks with rests between them. (3 per second)
Sagging	To hang down loosely or sink towards the middle
Sedatives	Drugs often used to treat sleep disorders
Seizure	Another word for a fit
Semantic cues	Use of gestures, intonation change, eye contact to add to the meaning of language meaning
Semantic memory	Assigns meaning to symbols, codes or words such as logos or flags
Semicircular canals	These respond to angular acceleration
Sensory memory	Information is first directed here – it is constantly flooded with input from the environment
2	and can hold it for a very short time
Sequential error	
Shift work	Working at non standard times eg night shift
Shivering	Your body shakes because you are cold or frightened
Shock	A serious physical condition in which blood cannot circulate properly often as a result of
	injury
Sinuses	Cavities within the skull which help the voice resonate and make the skull lighter
Slurred speech	Pronunciation of speech which is not clear or distinct often after drinking alcohol
Somatogravic illusion	A pilot may mistake acceleration for pitch
Somatosensory system	Pressure &position receptors throughout the body that provide information on eg the
	orientation of the seat in which we sit.
Somnabulism	Sleep walking
Somniloquism	Sleep talking
Span	Eg attention span
Spatial disorientation	Suffer from illusions of orientation
Sporadic	Something which happens at irregular intervals
Steadfast	You are determined that what you are doing is right and you refuse to change or give up
Stereopsis	Near objects produce images on each retina that are more different from one another than
~	distant objects
Stimulants	A drug or medicine that increases heart rate & makes you less likely to sleep
Stroke	A sudden illness like a heart attack which can cause brain damage or paralysis in part of the
<u> </u>	body
Submissive	Behaviour in a quiet obedient way, doing whatever someone wants you to do
Subordinate	Something/ one which is less important to another thing / one
Supplementary	Something is added to something else in order to make it more complete
Susceptible	Likely to be affected by something or someone ie disease.
Sustain	Keep something going for a long time
Sway (verb)	The power someone has to influence someone to make you decide to one thing rather than
• • •	
	another thing
Sympathetic nervous	another thing
Sympathetic nervous system Symptoms	another thing Provides us with a way to cope with a sudden new source of stress. Flight or fight and the
system	another thing Provides us with a way to cope with a sudden new source of stress. Flight or fight and the associated release of adrenalin
system	another thing Provides us with a way to cope with a sudden new source of stress. Flight or fight and the associated release of adrenalin An indication that something is wrong with your body or the way that it works that is taken as

and eff Temper The te Tendons A strox The bends Acute tissues Thrombosis A clot Tingling A sligl To obscure detail Tolerance Tourniquet A strip bleedir Trachea Trachea Tranquillisers Drugs Transmeridian dyschronisation tremble Shakir Tumbling Rollin Tympanic membrane The ea Typhoid An inf Ulcer A sore Urine Vaccinations Protec Ventricle Vertebrae The book Vertigo A feeli Vestibular system Vigilance Careful itself Voluntary Careful Strow Careful Strow Careful itself Voluntary Careful Strow Careful	
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Ulcer A sore Urine The ye Vaccinations Protect Ventricle The lo Vertebrae The be Vertigo A feel: Vestibular system Gives Vigilance Careful itself Voluntary Descri Vomit You be Weariness The feel	fectious disease spread by dirty water or food
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Ventricle The lo Vertebrae The bo Vertigo A feel: Vestibular system Gives Vigilance Carefu itself Voluntary Descri Vomit You b: Weariness The fe	ction against a disease
Vertebrae The box Vertigo A feel: Vestibular system Gives Vigilance Carefu itself Voluntary Descri Vomit You b: Weariness The fe	ower chamber of the heart
Vertigo A feel: Vestibular system Gives Vigilance Carefu itself Voluntary Descri Vomit You b: Weariness The fe	ones of which the spine (backbone) are composed
Vestibular system Vigilance Careful itself Voluntary Descri Vomit Weariness The fe	ling of dizziness and sickness caused by looking down from a high place.
VigilanceCareful itselfVoluntaryDescriVomitYou byWearinessThe fe	
itself Voluntary Descri Vomit You b Weariness The fe	
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Vomit You by Weariness The fe	ibes action that you do freely or offer to do.
Weariness The fe	oring food and drink back up from your stomach, out through your mouth.
	eeling of being very tired
1 awining Opening	
	sted in something.
Zeitgeber Cues e	eg the day & night cycle serve to synchronise endogenous rhythm
	our sense of balance through the semicircular canals ul attention that you give to a situation, so that you notice any danger that might present libes action that you do freely or offer to do. oring food and drink back up from your stomach, out through your mouth. elling of being very tired ing the mouth and breathing in more air than normal, often when you are tired or not

ACTIVITY 1

Which body part or function do the following words refer to:

Acoustic	
Acuity	
Alveoli	
Alveoli	
Blinking	
Capillary	
Cochlea	
Cones & rods	
Cornea	
Cramps	
Decibels	
Diaphram	
Electrocardiogram (ECG)	
Eustachian tube	
Exhale	
Expiration	
Fovea	
Fracture	
Haemoglobin	
Iris	
Otolith organ	
Pulse	
Resuscitation	
Rhodopsin	
Saccades	
Semicircular canals	
Sinuses	
Stroke	
Tympanic membrane	
Vestibular system	

ACTIVITY 1. Consolidation

rods and cones	rhodopsin	sinuses
fovea	electrocardiograph	vestibular system,
cochlea	acuity	haemoglobin
cramps	otolith organ	cornea
eustachian tube	exhale	strokes
alveoli	decibels	iris
expirations	semi-circular canals	acoustic

1.	Unless rehearsed, inputs will be lost in 15 - 30 sec. Information is stored as an or spatial or spatial code.
2.	The clarity with which we see an object is at a maximum when the light falls on the centre of the retina (fovea) is called Visual
3.	Gas will diffuse through a membrane from high to low pressure. This is the principle that allows the exchange of $\rm O_2$ and $\rm CO_2$ across the membranes in the lungs.
4.	The, which converts the mechanical vibrations arriving via the ossicles into nerve signals that are transferred to the brain to be interpreted as sounds.
5.	The retina contains two different types of photoreceptor cells, (they are photosensitive – that is, sensitive to light) known as, which are responsible for providing vision.
6.	The is a non-vascular (contains no blood vessels), transparent fibrous coat that covers the iris.
7.	Physical exhaustion is indicated by slow movement, increased effort to carry out work, complains of or stiff muscles.
8.	Sound is measured in two ways: The loudness which is measured in (dB) and the pitch, or frequency, which is measured in Hertz (Hz).
9.	The measures electrical activity of the heart and graphs this electrical activity on paper.
10.	The connects the middle ear to the nasal passages, which finally terminates at the back of the throat.
11.	To help clear the ears on descent, swallowing, yawning and chewing are useful. If none of these works, then the Valsalva Manoeuvre can be used. Close the mouth and pinch the nose, then gently into the pharynx and nasal region.
12.	The more violent that accompany sneezing and coughing will spread millions of pathogen carrying droplets at great speed over considerable distances

13.	There is a small central area of the retina known as the, which contains a large number of cones, but no rods,.
14.	Oxygen is transported around the body by the in the blood.
15.	The is a coloured muscular diaphragm, situated behind the cornea and contains an aperture known as the pupil.
16.	The works in a similar manner to the semi-circular canals; it also contains sensitive hairs and fluid.
17.	Within the rods, a chemical called is necessary for the full contrast sensitivity of the rods.
18.	Whilst the are able to determine angular accelerations, they are unable to perceive angular velocity.
19.	are air cavities in the cranial bones, especially those near the nose and connecting to it.
20.	are usually caused by a blockage of, or by a burst blood vessel in the brain.
21.	The or <i>balance system</i> , is the sensory system that provides the dominant input about our movement and orientation in space, and is situated in the inner ear.

ACTIVITY 2 Explain the following words and match them with their opposites.

Abnormal	1. Beneficial
Acute	2. chronic
Ample	3. Consistent
Autocratic	4. Democratic
Deteriorate	5. Deteriorate
Detrimental	6. Impervious
Erratic	7. Improve
Monotonous	8. Incompetent
Periphery	9. insufficient
Proficient	10.Mainstream
Reclined	11.normal
Recuperate	12.Quit
Sporadic	13.Regular
Susceptible	14.Upright
Sustain	15.Varied

MODULE N
words (for international cadets)

ACTIVITY 2. Consolidation:

susceptible	normal	chronic
improves	erratic	consistent
deteriorate	Sporadic	severe
periphery	beneficial	upright
regular	abnormal	dehydration.
insufficient	varied	acute

1.	The electrocardiograph gives the doctor an indication of any activity of the heart.
2.	Stress may be (short-term), building up in a few hours or days, but being resolved fairly quickly. Or it may be, (longer-term) affecting the person for months or years.
3.	Exposure to air temperatures above 30°C requires 250ml of water every 30 minutes to prevent
4.	Performance begins to in temperatures above 32° C.
5.	An alcohol hangover is associated with a variety of symptoms that may include motor functions and trouble sleeping.
6.	The clarity with which we see an object deteriorates rapidly as the image moves away from the fovea towards the of the retina.
7.	errors are difficult to predict as they are infrequent and unrelated. They are usually resistant to correction through training or indoctrination.
8.	A poor diet makes a body to illness. Missing meals can affect performance.
9.	A lack of oxygen for a sustained period will lead to unconsciousness, coma, brain damage and eventually, death.
10.	If nausea continues on subsequent flights, medication may be
11.	Every individual is likely to have their own characteristic andresponse pattern to stressful events.
12.	Exercise both physical and mental performance as well as assisting towards a longer, healthier and more active and pleasurable life.
13.	Further increase in 'g will inevitably lead to oxygen and sugar being supplied to the brain, resulting in a decrease in brain function and eventually loss of consciousness

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14.	A useful measure of fitness is the time taken for the heart rate to return to near the resting rate. As your fitness increases, the time required to return to a near heart rate will reduce.
15.	All pilots will have mandatory audiograms (hearing tests) as part of their medical examination requirements.
16.	The inner ear may falsely suggest that the head is tilted while the eyes and somatosensory systems suggest that one is
17.	Ozone exposure limits are many, and complex, with various aviation regulatory authorities and environmental protection agencies setting differing 'safe' limits.

ACTIVITY 3: Match these words to their definitions

PERSON B

Hyperglycaemia	1.	High blood sugar levels
Acute fatigue	2.	Inability to sleep
Anxiety	3.	Loss of water from the body due to perspiration
Bleeding	4.	Low blood sugar levels
Cardiac arrest	5.	Shaking slightly with movements you can't control
		because you are ill, cold or frightened
Dehydration	6.	Short term tiredness after eg a busy day. Recover after a
		good sleep.
Exhaustion	7.	Stopping of the heart
Hypoglycaemia	8.	The state of being so tired that you have no energy left
Insomnia	9.	The state of losing blood from the body
Shiver	10.	Worry
Tremble	11.	You bring food and drink back up from your stomach, out
		through your mouth.
Vomit	12.	Your body shakes because you are cold or frightened

Ask your partner to explain the words below you don't know.

Congested
Cramps
Diabetes
Dizziness
Drowsiness
Dysentery
Fainting
Fracture
Nausea
Seizure
Shock
Ulcer

ACTIVITY 3: Match these words to their definitions

PERSON A

Congested	1.	A break in for example a limb.
Cramps 2. A change of consciousness caused by a disturbance of		A change of consciousness caused by a disturbance of blood
		flow to the brain
Diabetes	3.	A condition where the body can't produce enough insulin
		needed for the metabolism of glucose sugar
Dizziness	4.	A feeling that you are losing your balance or about to fall
		down
Drowsiness	5.	A medical condition in which an organ of the body become
		blocked with liquid eg lungs
Dysentery	6.	A pain you feel caused by muscles suddenly contracting eg
		stomach, leg
Fainting	7.	A serious physical condition in which blood cannot circulate
		properly often as a result of injury
Fracture	8.	A sore area on your skin that is very painful and may bleed. It
		can be external or internal
Nausea	9.	An infection in a persons intestines that causes severe
		diarrhoea
Seizure	10.	Another word for a fit
Shock	11.	Feeling going to be sick or vomit.
Ulcer	12.	Feeling sleepy

Ask your partner to explain the words below you don't know.

Hyperglycaemia
Acute fatigue
Anxiety
Bleeding
Cardiac arrest
Dehydration
Exhaustion
Hypoglycaemia
Insomnia
Shiver
Tremble
Vomit

ACTIVITY 4:

Look at the following definitions.. Complete the words and after you have finished, Read out the definitions to and your partner must he/she give you the appropriate word.

PERSON B

Н	High blood sugar levels
I	Inability to sleep
D	Loss of water from the body due to perspiration
Н	Low blood sugar levels
T	Shaking slightly with movements you can't control because you are ill, cold or frightened
A f	Short term tiredness after eg a busy day. Recover after a good sleep.
C a	Stopping of the heart
E	The state of being so tired that you have no energy left
В	The state of losing blood from the body
A	Worry
V	You bring food and drink back up from your stomach, out through your
	mouth.
S	Your body shakes because you are cold or frightened

PERSON A

Г	A 1 1 1 C 1 1 1 1
F	A break in for example a limb.
F	A change of consciousness caused by a disturbance of blood flow to the
	brain
D	A condition where the body can't produce enough insulin needed for the
	metabolism of glucose sugar
D	A feeling that you are losing your balance or about to fall down
C	A medical condition in which an organ of the body become blocked with
	liquid eg lungs
C	A pain you feel caused by muscles suddenly contracting eg stomach, leg
S	A serious physical condition in which blood cannot circulate properly
	often as a result of injury
U	A sore area on your skin that is very painful and may bleed. It can be
	external or internal
D	An infection in a persons intestines that causes severe diarrhoea
S	Another word for a fit
N	Feeling going to be sick or vomit.
D	Feeling sleepy

words (for international cadets) ACTIVITY 4: CONSOLIDATION

dehydration	congested	diabetes
shivering	bleeding	seizure
anxiety	dizziness	drowsiness
vomiting	fainting	exhaustion
Hypoglycemia	Acute Fatigue	
nausea	Insomnia	

1.	is often caused by intense mental or physical activity over a relatively short time frame and requires a relatively short recovery time.
2.	Consideration of one's emotional state is also an important consideration for pilots. It is normal for all of us to occasionally suffer some mild, depression or fear.
3.	Hypaemic Hypoxia occurs when there is a decrease in the amount of red blood cells (RBCs) available for O2 transport. It may be because of blood loss from severe (internal, or external), blood donation, from menstruation, chronic infection, or an iron deficiency in the diet causing anaemia.
4.	Exposure to air temperatures above 30°C requires 250ml of water every 30 minutes to prevent Any more than this, the body will excrete as urine.
5.	Physical can be defined as slow movement, increased effort to carry out work, complaints of cramps or stiff muscles.
6.	can produce a variety of symptoms and effects but the principal problems arise from an inadequate supply of glucose as fuel to the brain, resulting in impairment of function.
7.	The inability to sleep under normal favourable conditions is called
8.	In stage 1 of hypothermia, the body temperature drops by 1-2°C below normal temperature and mild to strong occurs.
9.	Common signs and symptoms of airsickness include: nausea,, vertigo, loss of appetite, cold sweating, skin pallor, difficulty concentrating, confusion, drowsiness, headache, and increased fatigue.
10	One of the arguments against against automation is that new tasks of reprogramming are often required in airspace.
11	.High blood pressure (or hypertension) can lead to a number of health problems, including coronary artery disease, strokes and
12	. Low blood pressure is less of a problem but can result in or fainting.

words (for international cadets)
13. The hypoxic person will suffer faulty judgement, difficulty in concentrating, indecision and ______.
14. Generally, blood pressure repeatedly greater than 140/90 is considered high and will be the cause of some concern. Low blood pressure is less of a problem but can result in dizziness or ______.
15. Alcohol's effect on the stomach lining can result in ______.
16. The term fit (or ______) usually relates to epilepsy, which arises from problems

associated with abnormal electrical activity in the brain.

GS 12 HPL

MODULE N

ODULE N GS 12 HPL

Activity 5

Match the following words to their definitions.

acceleration	1.	A characteristic that someone has.
analogue	2.	A pilot may mistake acceleration for pitch
autonomic	3.	A reaction without conscious thought
barotrauma	4.	An indication that something is wrong with your body or the way that it works that is taken as a sign of illness
conscious	5.	An instrument which shows what it measure by a pointer which moves around a dial rather than show numbers
episodic	6.	An involuntary response
fatigue	7.	Another brain wave pattern in sleep
hyperventilation	8.	Continue over a long time
illumination	9.	Difficult to see or hidden
obscure	10.	Increase in speed with time
otolith	11.	Make less
incapacitation	12.	Occurs at infrequent and irregular intervals
reduce	13.	Over breathing
reflex	14.	Pain or discomfort which arises when the pressure drops and the volume of gas within body cavities increase.
REM	15.	Rapid eye movement
Re-synchronise	16.	Re-set
Semicircular canals	17.	The lighting
Slow-wave	18.	The organ which responds to changes in velocity
somatogravic	19.	These respond to angular acceleration
sustained	20.	Tiredness
symptoms	21.	Weakened in some way so that they are unable to do certain things
traits	22.	You notice what is happening

 $\textbf{Activity 6} \ \ \text{CLOZE EXERCISE:} \ \ \text{Use the words in the box to complete the following sentences.}$

acceleration	analogue	autonomic
barotrauma	conscious	Episodic
fatigue.	hyperventilation	illumination
obscure	otolith	pilot incapacitation.
reduces	reflex	REM
re-synchronise	semicircular canals	slow-wave
somatogravic	Sustained	Symptoms
traits		

1.	Gastro-intestinal problems are the most common cause of
2.	The detect angular acceleration
3.	Excess alcohol reduces sleep
4.	The illusion that the aircraft is climbing when it is actually accelerating is called
	illusion
5.	The function of sleep is body repair.
6.	Excessive noise levels cause
7.	Most circadian rhythms will only at a rate of 1 to 1 and a half hours
	per day.
8.	Motor programmes or motor skills are behavioural sub-routines not requiring
	thought.
9.	memory is the memory of long term events held in the long term memory.
10.	Trends and approximate values are better displayed by instruments.
11.	high g may cause grey-out then black-out.
12.	The of hyperventilation include light headedness, rapid breathing,
	flushed complexion and tingling of the arms and hands.
13.	Overbreathing causes
14.	The organ will sense linear acceleration.
15.	Denial is the tendency to not recognise adverse behavioural in oneself.
16.	The nervous system controls normal body functions.
17.	A action bypasses conscious processes and acts instinctively.
18.	Load factor is a measure of the experienced by a pilot.
19.	Positive g blood flow to the brain.
20.	Rods are more sensitive to lower light levels of but do not detect colour.
21.	Pain in the middle ear and sinuses describes the condition of
22.	Red cockpit lighting helps to preserve night vision but can detail on WAC charts.