

AE Academic English UK

Introduction to the MAWL (Sublist 1-5)



PDF Lesson Book 1

EXAMPLE

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Teacher's Notes **EXAMPLE**

Medical Academic Word List: An Introduction

Suggested Lesson Plan

Aim: To introduce & develop the students' awareness and lexical repertoire of the Medical Academic Word List (MAWL).

1. Introduction

- Distribute/display the MAWL (**at the back of this book**) and explain the rationale behind it.

Rationale
⇒ <i>The MAWL contains 623 non-subject specific and medical words which were selected because they appear with great frequency in a broad range of medical research articles.</i>
⇒ <i>There are over 3000 words because each word has a number of word forms. Example: cell⁽ⁿ⁾/ cells⁽ⁿ⁾/ cellulose⁽ⁿ⁾ / cellulate^(v) / celled^(adj) / cellular^(adj)</i>
⇒ <i>There are 10 sublists separated in terms of frequency with sublist 1 being the most frequent.</i>
⇒ <i>The list helps identify academic vocabulary and medical terminology.</i>
Source: Wang, J., Liang, S.-lan and Ge, G.-chun (2008) "Establishment of a medical academic word list," <i>English for Specific Purposes</i> , 27(4), pp. 442–458. Available from: https://www.sciencedirect.com/science/article/abs/pii/S0889490608000227 (Accessed: 01/04/23)

2. MAWL: Synonyms

- Distribute worksheet without the key.
- Start with the MAWL (Synonyms) (sublist 1) worksheet.
- Go through the following instructions.

Instructions
1. <i>Look at each sublist and notice a number for each line (1-7).</i>
2. <i>Look at the words in each table (General Academic Words & Medical Terms).</i>
3. <i>Select a synonym from each line that corresponds to the words in the table E.g, important = significant and amino acids linked together = protein.</i>
4. <i>Allow 5-10 minutes for students to identify the other twelve words.</i>
5. <i>Go through the answers (at the back of this book) together.</i>

3. MAWL Gap Fill Exercises (General & Medical)

- Each sublist synonyms task has a connected gap-fill activity using the same words / answers.
- Go through the following instructions.

Instructions
1. <i>Look at the words in the box and brainstorm the word forms of these words as a whole class.</i>
2. <i>Read each sentence carefully and identify which word from the box will fit.</i>
3. <i>Think about the grammar of the sentence carefully and change the word form so that the meaning is clear and accurate.</i>
4. <i>Allow 5-10 minutes for students to complete the sentences.</i>
5. <i>Go through the answers (at the back of this book) together.</i>

⇒ Complete the rest of the worksheet using the same format.

Medical Academic Word List (Synonyms) EXAMPLE

Exercise

This worksheet is designed to help you identify academic and medical words in the MAWL. Each sublist has a number for each line (1-7). Look at each line in the sublist and try to identify a synonym of the word in the following tables. There is an example to guide you.

Sublist 1

- ¹cell • data • muscular • *significant* • clinic • analyse • respond • factor • method • *protein* •
²tissue • dose • gene • previous • demonstrate • normal • process • similar • concentrate •
³function • therapy • indicate • area • obtain • research • vary • activate • require • induce •
⁴cancer • occur • role • evident • range • identify • period • outcome • phase • specific • liver
⁵infect • culture • mediate • score • affect • potential • individual • expose • involve • survive
⁶target • respective • intervene • site • design • primary research • approach • estimate •
⁷component • acid • baseline

General Academic Words

1	important	<i>significant</i>
2	██████████	
3	necessary	
4	██████████	
5	include	
6	██████████	
7	measure	

Medical Terms

1	amino acids linked together	<i>protein</i>
2	a ██████████ sth	
3	a type ██████████	
4	cleans toxins out of the blood	
5	████████████████████	
6	direct data	
7	██████████	

Sublist 1: MAWL Gap Fill Exercises **EXAMPLE**

Put these words in the correct form into the gaps.

Sublist 1: General Academic Words

significant / demonstrate / **require** / occur / involve /
 [redacted] / baseline

1. If you have an appointment in a hospital or clinic but are not **required** to stay overnight, it means you are being treated as an outpatient or day patient.
2. The [redacted] a [redacted] of security for hospital computer systems.
3. There is a [redacted] correlation [redacted].
4. Research has [redacted] that babies can recognize their mother's voice very soon after birth.
5. Since our discussion [redacted], we need to adopt a different [redacted] to it.
6. The operation [redacted] heart.
7. The study compares the [redacted] of heart disease in various countries.

Sublist 1: Medical Terms

protein / [redacted] / therapy / liver / infect /
 primary research / [redacted]

1. [redacted] means going directly to the source, rather than relying on pre-existing data samples.
2. The [redacted] a [redacted] biopsy.
3. Psychological [redacted], family [redacted] are described as patient-centred healthcare procedures.
4. It is [redacted] recommended [redacted] of this medicine.
5. Only two of the 10 amino [redacted] singletons.
6. Thus, the amount of [redacted], carbohydrate, water, etc. in biological [redacted].
7. The meat had been [redacted] by [redacted] bacteria.

Sublist 2: Synonym Exercises **EXAMPLE**

Look at each line in the sublist and try to identify a synonym of the word in the tables below.

Sublist 2

- ¹ procedure • overall • pathway • inflammation • region • participate • lesion • technique •
² volume • serum • define • evaluate • prior • assay • injury • section • task • achieve • symptom
³ detect • molecular • error • incubate • donor • intense • chronic • fraction • insulin • contrast
⁴ react • source • available • disorder • positive • structure • multiple • generate • conclude
⁵ medium • inhibit • complex • distribute • major • tumor • initial • channel • receptor •
⁶ membrane • stress • strain • nuclear • ratio • approximate • release • transplant • surgery •
⁷ assess • impact • versus • drug • laboratory • minimize • onset • reveal

General Academic Words

1	method / approach	
2	██████████	
3	opposite	
4	██████████	
5	beginning	
6	██████████	
7	██████████	

Medical Terms

1	damage to the tissue	
2	an ██████████	
3	smallest ██████████	
4	an ██████████ condition	
5	██████████	
6	a thin sheet of tissue	
7	the ██████████	

Sublist 2: MAWL Gap Fill Exercises **EXAMPLE**

Put these words in the correct form into the gaps.

Sublist 2: General Academic Words

_____ / evaluation / _____ / structure / _____ /
approximate / impact

1. The anti-smoking campaign has made quite an _____ on young people.
2. New surgical _____ developed.
3. _____ of the number _____.
4. _____ of this new _____ until all the data has been collected.
5. The _____ measures _____ variables, _____ problems and social disability.
6. This is in _____ to group 3's samples, _____ respiratory system.
7. The _____ pattern of this protein is particularly complex.

Sublist 2: Medical Terms

lesion / _____ / molecule / disorder / _____ /
membrane / _____

1. Many young females suffer from eating _____ like anorexia and bulimia.
2. _____ are _____ that receive and transduce _____ into biological systems.
3. Alzheimer's disease is the most _____ - _____ dementia _____ 1 in 3 younger people with dementia.
4. Possible _____ of Covid-19 include _____ of _____ breathing.
5. Doctors discovered the _____ screening.
6. Throughout the programme, you _____ of state-of-the-art techniques in _____ and cellular biology as applied to medicine.
7. _____ transparent _____.

Sublist 3: Synonym Exercises **EXAMPLE**

Look at each line in the sublist and try to identify a synonym of the word in the tables below.

Sublist 3

- ¹scan • monitor • criterion • visual • duration • cycle • investigate • acute • sequence • select
²maximize • whereas • peak • elevation • image • enzyme • parameter • isolate • mutation •
³enhance • calcium • glucose • appropriate • incidence • conduct • protocol • background •
⁴stimulate • algorithm • establish • efficacy • hypothesis • feature • interval • mortality • array
⁵derive • series • buffer • specimen • focus • display • plasma • abstract • grade • secondary
⁶strategy • graft • undergo • peripheral • transcription • despite • consist • status • furthermore
⁷immune • reverse • infuse • author • interact • issue • negative • throughout •

General Academic Words

1	time span	
2		
3	agreement	
4		
5		
6	away from centre	
7		

Medical Terms

1		
2	variation in genes	
3	the rate at which	
4		deaths
5	a	
6		transplanted
7	Resistant or protected against a disease	

Sublist 3: MAWL Gap Fill Exercises **EXAMPLE**

Put these words in the correct form into the gaps.

Sublist 3: General academic words

duration / [] / protocol / [] / derive /
[] / interact

1. Scientists have _____ a link between _____ a _____ dementia.
2. _____ artery disease, or PAD, _____ (fats and cholesterol) in _____ or arms.
3. Molecular recognition in biological systems relies _____ attractive _____ between two partner molecules.
4. A _____ is also the rules _____ or an exact _____ treatment.
5. The follicular phase, however, can vary in _____, _____.
6. The use _____ from plants as medicines has a long history in the treatment of various diseases.
7. The _____ the _____ of _____.

Sublist 3: Medical terms

[] / mutation / [] / mortality / [] /
graft / immune

1. The _____, often _____ per 100,000, is called the _____ rate.
2. The main role of _____ is to take _____ to the parts of the body that need it.
3. _____ care is a _____ provides treatment for individuals with short-term, severe medical needs.
4. Skin _____ is _____ an _____ the body and used to cover lost or damaged skin.
5. _____ may be _____, or they may be caused by exposure to DNA-damaging agents in the environment.
6. Widespread childhood _____ in _____ the _____ infants.
7. In medicine, the _____ (rate) is _____ of a _____ risk over a specified timeframe.

Sublist 4: Synonym Exercises **EXAMPLE**

Look at each line in the sublist and try to identify a synonym of the word in the tables below.

Sublist 4

- ¹goal • vein • chamber • independent • proliferation • formation • subsequent • predict •
²correspond • correlate • regulate • exclude • metabolic • device • recruit • final • impair • inject
³percent • publish • remove • objective • exhibit • blot • defect • biopsy • index • diameter •
⁴cognitive • followup • fluid • lipid • magnetic • margin • energy • locate • survey • software
⁵profile • attribute • convention • synthesis • recover • syndrome • filter • segment • compound
⁶link • guideline • extract • proportion • regression • questionnaire • discharge • respiratory •
⁷gender • summary • promote • tract • toxic • relevant • episode • acquire •

General Academic Words

1	rapid growth	
2	██████████	
3	unbiased	
4	██████████	
5	a feature / quality	
6	██████████	
7	██████████	

Medical Terms

1	a type of blood vessel	
2	██████████	
3	taking a small ██████████ tissue	
4	██████████ compounds	
5	a ██████████ made of ██████████	
6	the organs that are involved in breathing	
7	a ██████████ in the body	

Sublist 4: MAWL Gap Fill Exercises **EXAMPLE**

Put these words in the correct form into the gaps.

Sublist 4: General academic words

proliferation / [] / objective / [] / attribute / []
[] / acquire

1. There is a direct _____ between smoking and lung cancer.
2. The _____ of _____ AIDS is around 15% according to WHO.
3. This _____ the _____ of Family Medicine (FM) that influence the primary health _____.
4. It has been estimated that millions of patients every year _____.
5. Analysts produced _____ evidence _____ a global _____.
6. In biology, cell _____ division.
7. _____ acceptable _____ of error in the epidemiological survey research is _____ 5 - 10%.

Sublist 4: Medical terms

[] / metabolic / [] / lipid / [] /
respiratory / tract

1. The diagnosis of cirrhosis can be based on liver _____ or conventional _____ findings.
2. Early diagnosis of a _____ is _____ pr _____ treatment as soon as possible.
3. The symptomatology does not differ _____ pulmonary _____.
4. _____ urinary _____ infection (UTI) _____ like other conditions or medical problems.
5. _____ store energy, provide _____ and provide _____ like testosterone.
6. _____ is the process by which _____ into energy. During _____ and drinks mix with oxygen to make the _____ needs.
7. The principal nonmalignant _____ diseases _____ are COPD, emphysema, _____.

Sublist 5: Synonym Exercises **EXAMPLE**

Look at each line in the sublist and try to identify a synonym of the word in the tables below.

Sublist 5

- ¹communicate • internal • dimension • layer • microscope • adverse • recipient • density • virus
²interpret • document • instruct • oral • theory • illustrate • probe • diagnose • consequence
³version • create • dilute • skeletal • novel • threshold • technology • element • dynamic •
⁴challenge • typical • transfer • aspect • diet • cohort • external • vector • antibiotic • domain
⁵temporary • linear • plus • digit • accurate • concept • transport • replicate • input • absorb
⁶rotate • distinct • radical • superior • contact • ensure • stable • prevalence • capture •
⁷degrade • anaesthesia • optimal • kit • bias • proximal • constant •

General Academic Words

1		
2	explain meaning	
3		
4	movement	
5		
6		
7	near to	

Medical Terms

1	an infectious		cells	
2	the process		disease	
3	the body's central framework			
4	medicine		infection	
5				
6				
7	medicine to make unconscious			

Sublist 5: MAWL Gap Fill Exercises **EXAMPLE**

Put these words in the correct form into the gaps.

Sublist 5: General academic words

adverse / _____ / threshold / _____ / concept /
distinct / _____

1. The most _____, _____, _____, bullying, extreme poverty and child neglect.
2. There are four _____, _____, _____, pharmacy medicines, prescription only medicines and controlled drugs.
3. _____ refers to a _____ of the _____ body part.
4. The lactate _____ is the point at which, _____, lactate b _____ at a level that is higher than resting values.
5. The pharmacologists have proposed an _____ of _____ the _____ inhibitors.
6. Healing means changing the patient's _____ of _____, _____, and adapting their life projects and targets.
7. The movement of a critically ill but _____ for the purposes of _____ is termed intra-hospital _____.

Sublist 5: Medical terms

_____ / diagnose / _____ / antibiotic / _____ /
prevalence / anaesthesia

1. The human _____ system _____ and tendons, and _____ percent of the body weight.
2. _____ can be relatively simple, _____ around a _____ or something more _____ drugs to cause unconsciousness.
3. Viral-based vector gene therapy _____ of _____ to infect cells and have their genes expressed by the host cells.
4. A large _____ higher _____ of both depressive symptoms and _____ in men.
5. _____ are medicines that fight infections _____ and animals by either _____ it difficult for the bacteria to grow and multiply.
6. _____ involves the _____ and treatment of breathing disorders.
7. These _____ of DNA _____ population.

Medical Academic Word List (MAWL) ANSWERS

Sublist 1 ANSWERS

General Academic Words

1	important	<i>significant</i>
2	show	<i>demonstrate</i>
3	█	<i>require</i>
4	happen	█
5	include	<i>involve</i>
6	method	█
7	█	<i>baseline</i>

Medical Terms

1	amino acids linked together	<i>protein</i>
2	a █	<i>dose</i>
3	a type of treatment	█
4	cleans to █	<i>liver</i>
5	contaminate	█
6	direct data	<i>primary research</i>
7	fluid in the stomach	█

Sublist 1: General Academic Words ANSWERS

1. If you have an appointment in a hospital or clinic but are not **required** to stay overnight, it means you are being treated as an outpatient or a day patient.
2. The new features should provide a **baseline** of █.
3. There is a **significant** correlation between vitamin deficiency and disease.
4. Research has **demonstrated** that █ very soon after birth.
5. Since our discussion so far █, we need to adopt a different **approach** to it.
6. The operation **involves** █ heart.
7. The study compares the **occurrence** of heart disease in various countries.

Sublist 1: Medical Terms ANSWERS

1. **Primary research** means going directly to the source, rather than relying on pre-existing data samples.
2. The diagnosis of cirrhosis was based on a **liver** biopsy.
3. Psychological **therapies**, family █ are described as ...

ALL ANSWERS ARE INCLUDED IN THE PAID VERSION...