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Vocabulary Builder Reference from...

George Zaidan: How do pain relievers work? | TED Talk https://www.ted.com/talks/george_zaidan_how_do_p

ain_relievers_work

All Words

IMPORTANT

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Session 1: Word List

sand	 n. finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action synonym: grit, dust, powder 		
	(1) sand dunes, (2) sand castle		
	The sand on the beach was warm and golden.		
obvious	<i>adj.</i> easy to see, discover or understand <i>synonym</i> : apparent, conspicuous, evident		
	 (1) obvious reasons, (2) his conclusion was obvious There are obvious differences between the two wine-producing regions. 		
norm	<i>n.</i> something that is regarded as usual, typical, or standard <i>synonym</i> : criterion, mean, standard		
	(1) norm of action, (2) cultural norm		
	The systems we have developed has accepted as industry norms .		
sensation	<i>n</i> . a feeling associated with stimulation of a sense organ or with a specific body condition; a general feeling of interest and excitement		

	synonym: feeling, perception, mania
	 (1) cause a widespread sensation, (2) taste sensation If you apply this ointment, you may feel a mild burning sensation.
extreme	adj. very great in amount or degree synonym: farthermost, outermost, fierce
	(1) extreme sports, (2) extreme weather events
	Solar gravity creates extreme pressures and temperatures.
discomfort	 n. a feeling of being uncomfortable physically or mentally or being embarrassed; a slight pain synonym: affliction, despair, ache
	(1) endure discomfort and pain, (2) discomfort in the abdomen
	He felt no discomfort as the dentist drilled his deadened tooth.
rinse	 v. to wash off soap or remaining dirt with clean water; to gargle your mouth and throat with mouthwash synonym: wash out, flush, irrigate
	(1) rinse out your mouth, (2) rinse the shampoo
	Please rinse the soap off of those dishes well.
warn	 v. to make someone aware of potential danger or difficulty, particularly one that may occur in the future synonym: alert, caution, admonish
	(1) warn a reckless driver, (2) warned me of the plan
	I attempted to warn him, but he ignored me.
install	 v. to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
	synonym: establish, inaugurate, lodge
	(1) install a door, (2) install a chairperson
	The new president was installed immediately after the

national election.

detect	 v. to find or recognize something, especially something difficult to see, hear, etc. synonym: catch, observe, notice
	(1) detect a bad event, (2) detect smuggling across bordersThe security camera has detected four intruders.
specialized	 adj. possessing or relating to specific knowledge or skills that are unique to a particular field or task; designed or intended for a particular purpose or function synonym: technical, expert, skilled
	(1) specialized knowledge, (2) specialized equipment The hospital has many specialized departments, including cardiology and oncology.
nervous	<i>adj.</i> worried and anxious about something; relating to the nerves<i>synonym</i>: neural, anxious, uneasy
	(1) development of the nervous system, (2) get nervous
	He suffers from nervous breakdowns.
nociceptor	<i>n.</i> a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain
	(1) thermal nociceptor , (2) nociceptor fiber
	The nociceptors in the skin are activated by heat, cold, and
	pressure.
stretch	 v. to make or be capable of making anything longer or broader without hurting or breaking synonym: lengthen, prolong, extend
	 (1) stretch along the coast, (2) stretch a story Some herds have been observed to stretch hundreds of kilometers.

spinal	adj. of or relating to the spine (= the long bone in the body's back)		
	 (1) spinal injury, (2) brain and spinal cord The surgeon carefully confirmed how to remove the tumor to avoid damaging the spinal nerves. 		
cord	 n. a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment synonym: wire, cable, string 		
	(1) spinal cord , (2) electrical cord		
	Your spinal cord is located deep within your body.		
joint	 adj. shared, held, or made between two or more people; (noun) the point of connection between two bones or elements of a skeleton synonym: collaborative, cooperative, combined 		
	(1) a joint venture, (2) the bone of a joint		
	After the summit meeting, the prime ministers issued a joint statement.		
internal	<i>adj.</i> of or relating to the inside of something <i>synonym</i> : interior, inner, domestic		
	(1) internal organs, (2) the internal economy		
	The prime minister canceled visits to other countries to resolve internal disputes.		
organ	 n. a part of the body of an animal or plant that has a particular purpose and performs a specific job synonym: function, structure 		
	(1) organ bleeding, (2) damage to internal organs		
	These infections have the potential to impact practically every		
	organ system.		
conduct	v. to organize and carry out a particular activity <i>synonym</i> : behave, lead, carry on		
	(1) conduct a background check, (2) conduct research		

Police will **conduct** random breath testing for drunk driving.

adj. relating to electricity electrical (1) an **electrical** storm, (2) degree in **electrical** engineering Actuators convert **electrical** pulses into motion. to specify or determine the exact position of someone or locate v. something synonym: discover, find, place (1) locate a missing pet, (2) locate a tumor The robot can accurately **locate** construction material. brain the organ inside the head that is responsible for one's n. movement, thought, memory, and feeling *synonym*: intellect, mind, encephalon (1) basic brain function, (2) permanent brain damage X-rays revealed a small tumor in his **brain**. to harm or cause injury to something or someone, often damage v. resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity synonym: harm, impair, injure (1) **damage** a relationship, (2) **damage** assessment During the surgery, the doctor had to be extremely cautious not to **damage** a blood vessel. *adj.* having or showing a kindly or tender nature; soft and gentle mild synonym: mild, delicate, soft (1) in a **gentle** voice, (2) **gentle** downward slope Her gentle manner relaxed everyone there. the top or extreme point of something slender or tip n. tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money

	given for services synonym: edge, advice, gratuity	
	(1) the tip of a paintbrush, (2) give the waiter a tip .	
	I will introduce some tips on learning English in this class.	
needle	 n. a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood synonym: thorn, spike, pin 	
	(1) needle prick, (2) sewing needle	
	The acupuncturist inserted needles into specific points on my body to alleviate my pain.	
metal	 n. a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes synonym: alloy, metalloid 	
	(1) metal fabrication, (2) precious metal	
	The construction worker used a metal saw to cut through the	
	stubborn sheet metal.	
threshold	 n. the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation synonym: anteroom, brink, verge 	
	(1) the threshold between rooms, (2) high pain threshold	
	She's on the threshold of adulthood.	
chemical	<i>adj.</i> relating to or connected with chemistry; <i>synonym</i> : chemic, synthetic	
	(1) toxic chemicals , (2) a chemical compound	
	The firm has grown into a large chemical manufacturing.	
tune	<i>n</i> . a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a	

	specific condition or standard		
	synonym: melody, harmony, (verb) adjust		
	(1) the tune of a song, (2) tune a piano		
	The band played a beautiful tune on their instruments.		
dam	 <i>n.</i> a wall constructed over a river to block the flow of water, mainly used to generate energy <i>synonym</i>: barricade, barrier, embankment 		
	(1) dam-building program, (2) dam collapsing		
	The break in the dam threatened the valley.		
crazy	<i>adj.</i> stupid or not sensible; very angry <i>synonym</i> : insane, absurd, bizarre		
	(1) crazy about cars and racing, (2) a crazy scheme		
	The rain and thunder are crazy today.		
over-the-counter	 <i>adj.</i> (often abbreviated as "OTC") relating to products or medications that are available for purchase without a prescription from a licensed healthcare professional; (noun, of finance) a method of trading that doesn't take place on a formal exchange <i>synonym</i>: OTC, off-the-shelf 		
	 (1) over-the-counter drugs, (2) over-the-counter trading I prefer to buy over-the-counter medication instead of getting a prescription. 		
painkiller	<i>n.</i> medicine used to relieve physical pain <i>synonym</i> : anesthetic, anodyne, analgesic		
	(1) a strong painkiller , (2) take a painkiller beforehand		
	Over-the-counter painkillers are less effective for patients		
	who have taken many in the past.		
aspirin	<i>n.</i> a drug used to reduce pain, fever, and inflammation		
	(1) prescribe aspirin , (2) aspirin sensitivity		
	She took a tablet of aspirin to soothe the fever.		

ibuprofen	<i>n.</i> a drug used to reduce pain, fever, and inflammation
	(1) ibuprofen intoxication, (2) ibuprofen tablet
	Daily use of ibuprofen can irritate the stomach.
prostaglandin	 n. a hormone-like substance produced in the body that regulates various physiological functions, including inflammation, blood pressure, and the contraction or relaxation of smooth muscles synonym: hormone, eicosanoid, lipid mediator
	(1) prostaglandin injection, (2) prostaglandin analogs
	Prostaglandin inhibitors like aspirin and ibuprofen can help
	reduce inflammation and relieve pain.
release	<i>v.</i> to set free or allow to escape from confinement <i>synonym</i> : free, let go, discharge
	(1) release a prisoner, (2) release CO2 into the air
	The animal rights group worked to release the dolphins back
	into the wild.
arachidonate	 n. the salt or ester form of arachidonic acid (= a polyunsaturated omega-6 fatty acid which is an essential fatty acid in many mammals) synonym: arachidonic salt, eicosatetraenoate
	(1) arachidonate metabolism, (2) cellular arachidonate
	Dietary intake can influence the body's arachidonate
	cascade, potentially impacting inflammation.
acid	 n. sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials synonym: sour
	 an acid reaction, (2) good source of essential amino acids
	During pregnancy, the stomach generates less acid than usual.

enzyme	 a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction synonym: catalyst, activator, accelerator
	(1) enzyme reaction, (2) lack of digestive enzymes
	A deficiency in the enzyme can lead to a medical condition.
convert	 v. to have a talk with someone; (adjective) reversed in order, relation, or action synonym: alter, remake, transform
	(1) convert fat into energy, (2) convert base 10 to base 16
	I want to convert my sadness into strength.
bunch	 <i>n</i>. a grouping of several similar things which are growing or fastened together <i>synonym</i>: group, assemblage, bundle
	(1) a bunch of trees, (2) a bunch of schoolgirls
	One bad apple spoils the whole bunch .
temperature	<i>n.</i> the degree of hotness or coldness of a thing or place <i>synonym</i> : climate, warmth, degree
	(1) extreme temperatures , (2) the atmospheric temperature
	Cities around the world set records for highest temperatures this summer.
inflammation	 <i>n</i>. a physical condition in which a part of the body becomes red, painful, hot, and often swollen, especially as a reaction to infection or injury <i>synonym</i>: rash, hives, irritation
	(1) reduce inflammation and pain, (2) inflammation of the lungs
	The medicine soothes the pain of chronic inflammation.
reaction	 n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
	synonym: response, reply, answer

	(1) chemical reaction, (2) trigger a reaction There was a chemical reaction of the lime with the groundwater.
соzу	 adj. comfortable and warm; giving a feeling of comfort, warmth, and relaxation synonym: comfortable, warm, snug
	(1) have cozy relations, (2) cozy sound of rain
	The fireplace made the room feel cozy and inviting.
spare	 adj. additional to what is necessary for ordinary use; (verb) to give time, money, space, etc. to someone synonym: extra, excess, (verb) afford
	(1) spare parts, (2) spare cost
	I made plans to spend my spare time beneficially.
spine	 n. the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column synonym: backbone, vertebra, column
	(1) the spine of a book, (2) a cervical spine injury
	She has a minor curved spine due to desk work for many years.
porcupine	 n. a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas
	synonym: hedgehog, echidna, spiny mammal
	(1) porcupine movement, (2) porcupine habitat
	The quills on a porcupine's back are used for defense.
permanent	<i>adj.</i> lasting for a long time without essential change <i>synonym</i> : lasting, ceaseless, endless
	(1) literature of permanent value, (2) permanent life insurance
	She is searching for a permanent residence.

activate	w. make something start working, more active or dynamicsynonym: mobilize, stimulate, initiate		
	(1) activate a receptor, (2) activate a motor You must activate the software with a 16-digit key before you		
	can use it.		
spit	<i>v.</i> to eject saliva or other liquid from the mouth <i>synonym</i> : expectorate, saliva, spew		
	(1) spit a bullet, (2) spit a mouthful of saliva		
	She tried to spit out the gum that she had been chewing.		
bind	 v. to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly 		
	synonym: tie, stick to, adhere		
	(1) bind the man's hands, (2) bind old letters into a bundle		
	The company's rules bind the employee's working hours.		
chemistry	 n. the branch of the natural sciences dealing with the composition of substances and their properties and reactions 		
	(1) professor of chemistry , (2) the chemistry of soil		
	He is familiar with chemistry and biology.		
bloodstream	<i>n.</i> the blood flowing through the body		
	(1) bloodstream in an artery, (2) bloodstream to the brain		
	Cancer cells are often carried throughout the body by the bloodstream .		
dimension	 n. a measurable extent of a particular kind, such as width, height, or length 		
	synonym: extent, measurement, size		
	(1) new dimension , (2) the crosswise dimension		
	Overall dimensions are approximately 400x200mm.		
neuropath	<i>n.</i> a person who suffers from a neurological disorder or disease, or the disorder itself		

	(1) the treatment plan of the neuropath , (2) neuropath's disorder
	The neuropath's symptoms included weakness, numbness, and difficulty with coordination.
stimulus	<i>n.</i> something that causes growth or arouses action <i>synonym</i> : incitement, inspiration, motivation
	(1) a response to a stimulus , (2) economic stimulus
	This book provides children with ideas and a stimulus for outside recreation.
discovery	 n. the act or process of finding information, a place, or an object, or learning about something that was previously not known synonym: finding, uncovering, detection
	 a scientific discovery, (2) the great discovery of the century
	Her research team made an important discovery.
mood	 n. the way you feel at a particular time; an angry or impatient state of mind synonym: mindset, disposition, temper
	(1) the mood in a room, (2) in an ugly mood
	His gaffe spoiled the mood of the dinner party.

Session 2: Spelling

1.	literature of pent value	adj.	lasting for a long time without essential change
2.	prescribe asn	n.	a drug used to reduce pain, fever, and inflammation
3.	have cy relations	adj.	comfortable and warm; giving a feeling of comfort, warmth, and relaxation
4.	dae assessment	v.	to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
5.	wn a reckless driver	v.	to make someone aware of potential danger or difficulty, particularly one that may occur in the future
6.	iben intoxication	n.	a drug used to reduce pain, fever, and inflammation
7.	cy sound of rain	adj.	comfortable and warm; giving a feeling of comfort, warmth, and relaxation
8.	sewing nee	n.	a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood
9.	bloam in an artery	n.	the blood flowing through the body

ANSWERS: 1. permanent, 2. aspirin, 3. cozy, 4. damage, 5. warn, 6. ibuprofen, 7. cozy, 8. needle, 9. bloodstream

10.	wned me of the plan	v.	to make someone aware of potential danger or difficulty, particularly one that may occur in the future
11.	d_m-building program	n.	a wall constructed over a river to block the flow of water, mainly used to generate energy
12.	det smuggling across borders	<i>V</i> .	to find or recognize something, especially something difficult to see, hear, etc.
13.	chemical reon	n.	a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
14.	the great diry of the century	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
15.	spinal cd	n.	a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
16.	in a gee voice	adj.	having or showing a kindly or tender nature; soft and mild
17.	oveter drugs	adj.	(often abbreviated as "OTC") relating to products or medications that are available for purchase without a prescription from a licensed healthcare professional; (noun, of finance) a method of trading that doesn't take place on a formal exchange

ANSWERS: 10. warn, 11. dam, 12. detect, 13. reaction, 14. discovery, 15. cord, 16. gentle, 17. over-the-counter

18. nm of action	n.	something that is regarded as usual, typical, or standard
19. cot a background check	ν.	to organize and carry out a particular activity
20. rie out your mouth	v.	to wash off soap or remaining dirt with clean water; to gargle your mouth and throat with mouthwash
21. give the waiter a t_p.	n.	the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services
22. new dion	n.	a measurable extent of a particular kind, such as width, height, or length
23. sth along the coast	v.	to make or be capable of making anything longer or broader without hurting or breaking
24. te a piano	n.	a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
25. cry about cars and racing	adj.	stupid or not sensible; very angry
26. an ad reaction	n.	sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
27. high pain thld	n.	the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation

ANSWERS: 18. norm, 19. conduct, 20. rinse, 21. tip, 22. dimension, 23. stretch, 24. tune, 25. crazy, 26. acid, 27. threshold

28.	st a bullet	v.	to eject saliva or other liquid from the mouth
29.	the bone of a jot	adj.	shared, held, or made between two or more people; (noun) the point of connection between two bones or elements of a skeleton
30.	spe parts	adj.	additional to what is necessary for ordinary use; (verb) to give time, money, space, etc. to someone
31.	trigger a reon	n.	a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
32.	nee prick	n.	a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood
33.	the thId between rooms	n.	the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
34.	oveter trading	adj.	(often abbreviated as "OTC") relating to products or medications that are available for purchase without a prescription from a licensed healthcare professional; (noun, of finance) a method of trading that doesn't take place on a formal exchange
35.	det a bad event	v.	to find or recognize something, especially something difficult to see, hear, etc.

ANSWERS: 28. spit, 29. joint, 30. spare, 31. reaction, 32. needle, 33. threshold, 34. over-the-counter, 35. detect

36. exe s	sports	adj.	very great in amount or degree
37. spe	_ed equipment	adj.	possessing or relating to specific knowledge or skills that are unique to a particular field or task; designed or intended for a particular purpose or function
38. thermal no	ocor	n.	a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain
39. the md	in a room	n.	the way you feel at a particular time; an angry or impatient state of mind
40. pro	din injection	n.	a hormone-like substance produced in the body that regulates various physiological functions, including inflammation, blood pressure, and the contraction or relaxation of smooth muscles
41. a response	e to a stus	n.	something that causes growth or arouses action
42. acte	a receptor	v.	make something start working, more active or dynamic
43. in an ugly	md	n.	the way you feel at a particular time; an angry or impatient state of mind
44. inl a	door	v.	to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
45. ene re	eaction	n.	a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction

ANSWERS: 36. extreme, 37. specialized, 38. nociceptor, 39. mood, 40. prostaglandin, 41. stimulus, 42. activate, 43. mood, 44. install, 45. enzyme

46. cot fat into energy	v.	to have a talk with someone; (adjective) reversed in order, relation, or action
47. permanent brn damage	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
48. iben tablet	n.	a drug used to reduce pain, fever, and inflammation
49. rie the shampoo	v.	to wash off soap or remaining dirt with clean water; to gargle your mouth and throat with mouthwash
50. professor of chry	n.	the branch of the natural sciences dealing with the composition of substances and their properties and reactions
51. electrical cd	n.	a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment
52. bd the man's hands	v.	to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
53. st a mouthful of saliva	v.	to eject saliva or other liquid from the mouth
54. the chry of soil	n.	the branch of the natural sciences dealing with the composition of substances and their properties and reactions
55. sth a story	v.	to make or be capable of making anything longer or broader without hurting or breaking

ANSWERS: 46. convert, 47. brain, 48. ibuprofen, 49. rinse, 50. chemistry, 51. cord, 52. bind, 53. spit, 54. chemistry, 55. stretch

56.	pone movement	n.	a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas
57.	loe a missing pet	v.	to specify or determine the exact position of someone or something
58.	brain and spl cord	adj.	of or relating to the spine (= the long bone in the body's back)
59.	bd old letters into a bundle	v.	to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
60.	cultural nm	n.	something that is regarded as usual, typical, or standard
61.	ree a prisoner	v.	to set free or allow to escape from confinement
62.	his conclusion was obs	adj.	easy to see, discover or understand
63.	inI a chairperson	v.	to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
64.	exe weather events	adj.	very great in amount or degree
65.	the crosswise dion	n.	a measurable extent of a particular kind, such as width, height, or length
66.	extreme temres	n.	the degree of hotness or coldness of a thing or place
67.	loe a tumor	v.	to specify or determine the exact position of someone or something
68.	the inal economy	adj.	of or relating to the inside of something

ANSWERS: 56. porcupine, 57. locate, 58. spinal, 59. bind, 60. norm, 61. release, 62. obvious, 63. install, 64. extreme, 65. dimension, 66. temperature, 67. locate, 68. internal

69. toxic chals	adj.	relating to or connected with chemistry;
70. a chal compound	adj.	relating to or connected with chemistry;
71. basic brn function	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
72. obs reasons	adj.	easy to see, discover or understand
73. cellular araate	n.	the salt or ester form of arachidonic acid (= a polyunsaturated omega-6 fatty acid which is an essential fatty acid in many mammals)
74. cot base 10 to base 16	v.	to have a talk with someone; (adjective) reversed in order, relation, or action
75. sd dunes	n.	finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
76. the spe of a book	n.	the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
77. precious meI	n.	a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes

ANSWERS: 69. chemical, 70. chemical, 71. brain, 72. obvious, 73. arachidonate, 74. convert, 75. sand, 76. spine, 77. metal

78.	sd castle	n.	finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
79.	a scientific diry	n.	the act or process of finding information, a place, or an object, or learning about something that was previously not known
80.	good source of essential amino ads	n.	sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
81.	taste seon	n.	a feeling associated with stimulation of a sense organ or with a specific body condition; a general feeling of interest and excitement
82.	the atmospheric temre	n.	the degree of hotness or coldness of a thing or place
83.	mel fabrication	n.	a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
84.	development of the nes system	adj.	worried and anxious about something; relating to the nerves
85.	a buh of schoolgirls	n.	a grouping of several similar things which are growing or fastened together

ANSWERS: 78. sand, 79. discovery, 80. acid, 81. sensation, 82. temperature, 83. metal, 84. nervous, 85. bunch

86. a strong paier	n.	medicine used to relieve physical pain
87. a cervical spe injury	n.	the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
88. get nes	adj.	worried and anxious about something; relating to the nerves
89. spe cost	adj.	additional to what is necessary for ordinary use; (verb) to give time, money, space, etc. to someone
90. dae a relationship	v.	to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity
91. take a paier beforehand	n.	medicine used to relieve physical pain
92. neth's disorder	n.	a person who suffers from a neurological disorder or disease, or the disorder itself
93. endure disrt and pain	n.	a feeling of being uncomfortable physically or mentally or being embarrassed; a slight pain
94. araate metabolism	n.	the salt or ester form of arachidonic acid (= a polyunsaturated omega-6 fatty acid which is an essential fatty acid in many mammals)
95. nocor fiber	n.	a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain

ANSWERS: 86. painkiller, 87. spine, 88. nervous, 89. spare, 90. damage, 91. painkiller, 92. neuropath, 93. discomfort, 94. arachidonate, 95. nociceptor

96. speed knowledge	adj.	possessing or relating to specific knowledge or skills that are unique to a particular field or task; designed or intended for a particular purpose or function
97. cause a widespread seon	n.	a feeling associated with stimulation of a sense organ or with a specific body condition; a general feeling of interest and excitement
98. an eleal storm	adj.	relating to electricity
99. reduce infion and pain	n.	a physical condition in which a part of the body becomes red, painful, hot, and often swollen, especially as a reaction to infection or injury
100. bloam to the brain	n.	the blood flowing through the body
101. economic stus	n.	something that causes growth or arouses action
102. acte a motor	v.	make something start working, more active or dynamic
103. asn sensitivity	n.	a drug used to reduce pain, fever, and inflammation
104. infion of the lungs	n.	a physical condition in which a part of the body becomes red, painful, hot, and often swollen, especially as a reaction to infection or injury
105. spl injury	adj.	of or relating to the spine (= the long bone in the body's back)
106. damage to internal orns	n.	a part of the body of an animal or plant that has a particular purpose and performs a specific job

ANSWERS: 96. specialized, 97. sensation, 98. electrical, 99. inflammation, 100. bloodstream, 101. stimulus, 102. activate, 103. aspirin, 104. inflammation, 105. spinal, 106. organ

107. lack of digestive enes	n.	a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction
108. d_m collapsing	n.	a wall constructed over a river to block the flow of water, mainly used to generate energy
109. pone habitat	n.	a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas
110. ree CO2 into the air	ν.	to set free or allow to escape from confinement
111. a cry scheme	adj.	stupid or not sensible; very angry
112. cot research	v.	to organize and carry out a particular activity
113. inal organs	adj.	of or relating to the inside of something
114. a buh of trees	n.	a grouping of several similar things which are growing or fastened together
115. orn bleeding	n.	a part of the body of an animal or plant that has a particular purpose and performs a specific job
116. the treatment plan of the neth	n.	a person who suffers from a neurological disorder or disease, or the disorder itself
117. gee downward slope	adj.	having or showing a kindly or tender nature; soft and mild
118. the t_p of a paintbrush	n.	the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services

ANSWERS: 107. enzyme, 108. dam, 109. porcupine, 110. release, 111. crazy, 112. conduct, 113. internal, 114. bunch, 115. organ, 116. neuropath, 117. gentle, 118. tip

119. a jot venture	adj.	shared, held, or made between two or more people; (noun) the point of connection between two bones or elements of a skeleton
120. pent life insurance	adj.	lasting for a long time without essential change
121. prodin analogs	n.	a hormone-like substance produced in the body that regulates various physiological functions, including inflammation, blood pressure, and the contraction or relaxation of smooth muscles
122. degree in eleal engineering	adj.	relating to electricity
123. disrt in the abdomen	n.	a feeling of being uncomfortable physically or mentally or being embarrassed; a slight pain
124. the te of a song	n.	a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard

ANSWERS: 119. joint, 120. permanent, 121. prostaglandin, 122. electrical, 123. discomfort, 124. tune

Session 3: Fill in the Blanks

- 1. Some herds have been observed to _____ hundreds of kilometers.
- *v.* to make or be capable of making anything longer or broader without hurting or breaking
- 2. Daily use of _____ can irritate the stomach.
- *n.* a drug used to reduce pain, fever, and inflammation
- 3. The break in the _____ threatened the valley.
- *n*. a wall constructed over a river to block the flow of water, mainly used to generate energy
- 4. Cancer cells are often carried throughout the body by the _____.
- *n.* the blood flowing through the body
- 5. Overall ______ are approximately 400x200mm.
- *n.* a measurable extent of a particular kind, such as width, height, or length
- 6. The quills on a _____ back are used for defense.
- *n*. a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas
- If you apply this ointment, you may feel a mild burning ______.
- *n.* a feeling associated with stimulation of a sense organ or with a specific body condition; a general feeling of interest and excitement
- 8. The acupuncturist inserted _____ into specific points on my body to alleviate my pain.
- *n.* a thin, pointed object typically used for sewing or medical purposes; a metal or plastic instrument used for administering injections or drawing blood

ANSWERS: 1. stretch, 2. ibuprofen, 3. dam, 4. bloodstream, 5. dimensions, 6. porcupine's, 7. sensation, 8. needles

- 9. She tried to _____ out the gum that she had been chewing.
- *v.* to eject saliva or other liquid from the mouth
- 10. Cities around the world set records for highest ______ this summer.
- *n.* the degree of hotness or coldness of a thing or place
- 11. I want to _____ my sadness into strength.
- v. to have a talk with someone; (adjective) reversed in order, relation, or action
- 12. She took a tablet of _____ to soothe the fever.
- *n.* a drug used to reduce pain, fever, and inflammation
- 13. The robot can accurately _____ construction material.
- *v.* to specify or determine the exact position of someone or something
- 14. I prefer to buy ______ medication instead of getting a prescription.
- *adj.* (often abbreviated as "OTC") relating to products or medications that are available for purchase without a prescription from a licensed healthcare professional; (noun, of finance) a method of trading that doesn't take place on a formal exchange
- 15. The band played a beautiful _____ on their instruments.
- *n.* a musical composition or set of musical notes that are played or sung; (verb) to adjust or set something to a specific condition or standard
- 16. The medicine soothes the pain of chronic ______.
- *n*. a physical condition in which a part of the body becomes red, painful, hot, and often swollen, especially as a reaction to infection or injury

ANSWERS: 9. spit, 10. temperatures, 11. convert, 12. aspirin, 13. locate, 14. over-the-counter, 15. tune, 16. inflammation

- 17. The security camera has ______ four intruders.
- *v.* to find or recognize something, especially something difficult to see, hear, etc.
- 18. After the summit meeting, the prime ministers issued a _____ statement.
- *adj.* shared, held, or made between two or more people; (noun) the point of connection between two bones or elements of a skeleton
- 19. The rain and thunder are _____ today.
- adj. stupid or not sensible; very angry
- 20. Her research team made an important _____.
- *n.* the act or process of finding information, a place, or an object, or learning about something that was previously not known
- 21. He felt no ______ as the dentist drilled his deadened tooth.
- *n.* a feeling of being uncomfortable physically or mentally or being embarrassed; a slight pain
- 22. She's on the _____ of adulthood.
 - *n.* the floor or ground that forms the bottom of a doorway and offers support when passing through a doorway; the smallest detectable sensation
- 23. The prime minister canceled visits to other countries to resolve ______ disputes.
- adj. of or relating to the inside of something
- 24. The fireplace made the room feel _____ and inviting.
- adj. comfortable and warm; giving a feeling of comfort, warmth, and relaxation

ANSWERS: 17. detected, 18. joint, 19. crazy, 20. discovery, 21. discomfort, 22. threshold, 23. internal, 24. cozy

- 25. During pregnancy, the stomach generates less _____ than usual.
- *n.* sour; water-soluble chemicals with a sour flavor; any of a variety of generally liquid compounds capable of reacting with and occasionally dissolving other materials
- 26. The ______ symptoms included weakness, numbness, and difficulty with coordination.
- *n.* a person who suffers from a neurological disorder or disease, or the disorder itself
- 27. There are ______ differences between the two wine-producing regions.
- adj. easy to see, discover or understand
- 28. She is searching for a _____ residence.
- adj. lasting for a long time without essential change
- 29. He suffers from _____ breakdowns.
- *adj.* worried and anxious about something; relating to the nerves
- 30. Solar gravity creates _____ pressures and temperatures.
- adj. very great in amount or degree
- 31. The new president was ______ immediately after the national election.
- *v.* to fix furniture, a machine, or a piece of equipment into position so that it can be used; put into an office or a position
- 32. Police will _____ random breath testing for drunk driving.
- v. to organize and carry out a particular activity

ANSWERS: 25. acid, 26. neuropath's, 27. obvious, 28. permanent, 29. nervous, 30. extreme, 31. installed, 32. conduct

- 33. The animal rights group worked to ______ the dolphins back into the wild.
 - *v.* to set free or allow to escape from confinement
- 34. The company's rules _____ the employee's working hours.
- *v.* to tie or fasten someone or something tightly with rope, string, etc. so that they cannot move or are held together strongly
- 35. The hospital has many ______ departments, including cardiology and oncology.
- *adj.* possessing or relating to specific knowledge or skills that are unique to a particular field or task; designed or intended for a particular purpose or function
- 36. His gaffe spoiled the _____ of the dinner party.
 - *n.* the way you feel at a particular time; an angry or impatient state of mind
- 37. He is familiar with _____ and biology.
- *n.* the branch of the natural sciences dealing with the composition of substances and their properties and reactions
- 38. Actuators convert _____ pulses into motion.
- *adj.* relating to electricity
- 39. This book provides children with ideas and a ______ for outside recreation.
- *n.* something that causes growth or arouses action
- 40. Your spinal _____ is located deep within your body.
 - *n.* a strong, thick, or thin thread or rope; a piece of plastic-coated wire used to transport electricity to a piece of equipment

ANSWERS: 33. release, 34. bind, 35. specialized, 36. mood, 37. chemistry, 38. electrical, 39. stimulus, 40. cord

- 41. One bad apple spoils the whole _____.
- *n.* a grouping of several similar things which are growing or fastened together
- 42. Dietary intake can influence the body's _____ cascade, potentially impacting inflammation.
 - *n.* the salt or ester form of arachidonic acid (= a polyunsaturated omega-6 fatty acid which is an essential fatty acid in many mammals)
- 43. She has a minor curved _____ due to desk work for many years.
 - *n.* the series of bones running down the center of the back that protect the spinal cord and support the body; the backbone or vertebral column
- 44. I attempted to _____ him, but he ignored me.
 - *v.* to make someone aware of potential danger or difficulty, particularly one that may occur in the future
- 45. _____ inhibitors like aspirin and ibuprofen can help reduce inflammation and relieve pain.
- *n*. a hormone-like substance produced in the body that regulates various physiological functions, including inflammation, blood pressure, and the contraction or relaxation of smooth muscles
- 46. A deficiency in the _____ can lead to a medical condition.
 - *n.* a substance produced by a living organism that acts as a catalyst to bring about a specific biochemical reaction
- 47. During the surgery, the doctor had to be extremely cautious not to ______ a blood vessel.
 - v. to harm or cause injury to something or someone, often resulting in decreased value or functionality; to impair or negatively affect something, such as a reputation or relationship; (noun) harm or injury that is caused to a person, thing, or entity

ANSWERS: 41. bunch, 42. arachidonate, 43. spine, 44. warn, 45. Prostaglandin, 46. enzyme, 47. damage

- 48. I made plans to spend my _____ time beneficially.
- *adj.* additional to what is necessary for ordinary use; (verb) to give time, money, space, etc. to someone
- 49. Over-the-counter ______ are less effective for patients who have taken many in the past.
- *n.* medicine used to relieve physical pain
- 50. The _____ on the beach was warm and golden.
- *n.* finely granulated particles of rock or mineral material typically found along beaches, deserts, or riverbeds; used in construction, landscaping, and other applications requiring drainage or abrasive action
- 51. You must ______ the software with a 16-digit key before you can use it.
- *v.* make something start working, more active or dynamic
- 52. There was a chemical ______ of the lime with the groundwater.
- *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
- 53. The firm has grown into a large _____ manufacturing.
- *adj.* relating to or connected with chemistry;
- 54. The systems we have developed has accepted as industry _____.
- *n.* something that is regarded as usual, typical, or standard
- 55. Her _____ manner relaxed everyone there.
- adj. having or showing a kindly or tender nature; soft and mild

ANSWERS: 48. spare, 49. painkillers, 50. sand, 51. activate, 52. reaction, 53. chemical, 54. norms, 55. gentle

- 56. The ______ in the skin are activated by heat, cold, and pressure.
 - *n.* a sensory nerve ending that is capable of detecting harmful stimuli, such as heat, cold, pressure, or tissue damage, and transmitting this information to the brain
- 57. These infections have the potential to impact practically every _____ system.
- *n*. a part of the body of an animal or plant that has a particular purpose and performs a specific job
- 58. The surgeon carefully confirmed how to remove the tumor to avoid damaging the ______ nerves.
- *adj.* of or relating to the spine (= the long bone in the body's back)
- 59. The construction worker used a _____ saw to cut through the stubborn sheet metal.
- *n.* a solid material that is typically hard, shiny, malleable, fusible, and ductile, with good electrical and thermal conductivity, and often used as a structural material, a conductor of heat or electricity, or for decorative purposes
- 60. Please _____ the soap off of those dishes well.
- *v.* to wash off soap or remaining dirt with clean water; to gargle your mouth and throat with mouthwash
- 61. X-rays revealed a small tumor in his _____.
- *n.* the organ inside the head that is responsible for one's movement, thought, memory, and feeling
- 62. I will introduce some _____ on learning English in this class.
- *n.* the top or extreme point of something slender or tapering, usually a mountain or hill; a piece of advice about something practical; a small amount of money given for services

ANSWERS: 56. nociceptors, 57. organ, 58. spinal, 59. metal, 60. rinse, 61. brain, 62. tips

ANSWERS: