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Vocabulary Builder Reference from...

Greg Gage: How you can make a fruit fly eat veggies | TED Talk

https://www.ted.com/talks/greg_gage_how_you_can_ make_a_fruit_fly_eat_veggies



All Words

IMPORTANT

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Session 1: Word List

gag

v. to prevent or restrict speech or expression, often through force or intimidation; to bind or cover the mouth to prevent speech; to cause someone to retch or choke; (noun) a device that is placed over someone's mouth to prevent them from speaking or making noise; an order that prohibits a person or group from discussing a particular topic or sharing certain information with others

synonym: muzzle, silence, suppress

(1) gag order, (2) gag a newspaper

The prisoner was **gagged** to prevent him from shouting for help.

pursue

v. to do something or attempt to attain something over time; to follow or seek someone or something, especially in trying to catch them

synonym: seek, hunt, chase

(1) pursue a goal, (2) pursue freedoms

She intends to **pursue** a political career.

relative

adj. considered and evaluated through comparison with something else

synonym: comparative, proximate, congeneric

(1) a remote **relative**, (2) **relative** factors

Most countries prohibit sexual activity between certain close **relatives**.

brain

 the organ inside the head that is responsible for one's 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**.

prefer

v. to like, choose, or want one thing or person better than another

synonym: choose, like, favor

(1) **prefer** physics to chemistry, (2) **prefer** a window seat The birds **prefer** open water areas with reeds around them.

optogenetics

- a branch of biotechnology that involves the use of light to control the activity of genetically modified cells or neurons in living tissue, often used in neuroscience research
- (1) **optogenetics** technique, (2) **optogenetics** manipulation. The recent advances in **optogenetics** research have paved the way for a deeper understanding of neuronal functions.

bud

a small swelling on a plant stem or twig containing an undeveloped shoot

synonym: shoot, sprout, germ

(1) pinch off a bud, (2) bud grafting

The flower was starting to show its **bud** and would soon bloom into a beautiful blossom.

instance

- n. a particular example or single occurrence of somethingsynonym: example, sample, illustration
- (1) for instance, (2) notable instance

These articles cite five **instances** of climate change.

neuroscience

 the scientific study of the function, structure, and disorder of the brain and the nervous system (1) the branch of **neuroscience**, (2) a theoretical concept in **neuroscience**

Our university is famous for its professors, who are well-versed in behavioral **neuroscience**.

experiment

n. the scientific test conducted to observe what happens and gain new knowledge

synonym: experimentation, investigation

(1) **experiment** design, (2) series of **experiments** His **experiments** showed highly positive results.

nervous

adj. worried and anxious about something; relating to the nerves

synonym: neural, anxious, uneasy

(1) development of the **nervous** system, (2) get **nervous** He suffers from **nervous** breakdowns.

manipulate

v. to influence or control something or someone to your advantage, often in an unfair or dishonest way

synonym: control, exploit, abuse

(1) **manipulate** figures, (2) vulnerable to **manipulate** Please tell me how to **manipulate** this computer.

preference

 a stronger liking or interest for something or someone than another thing or person

synonym: taste, choice, affection

(1) his meal **preferences**, (2) a particular **preference** for Chinese art

Her **preference** is comfortable clothing over fashionable ones.

baseline

 a starting point or minimum for comparing facts; the back line bounding each end of a tennis or handball court

synonym: standard, criterion

(1) baseline budget, (2) establish a baseline

The products they sell are the **baseline** for performance in the industry.

broccoli

- a green vegetable with a bunch of small, tight florets on a thick stem that belongs to the cabbage family
- frozen broccoli,
 broccoli sprout
 didn't like broccoli floret and avoided eating it.

chamber

- n. a large room used for a formal, public, or particular purpose; one of the parts of a parliamentsynonym: association, cabin, legislature
- (1) a gas **chamber**, (2) the lower **chamber**The surgeon made an incision in the **chambers** of the patient's heart.

outfit

 a set of clothing worn together, typically for a particular occasion or activity; any cohesive unit such as a company, military, etc.

synonym: ensemble, set, suit

(1) camping **outfit**, (2) a construction **outfit**I need to buy a new **outfit** for the wedding I'm attending next weekend.

electrode

- either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
- (1) platinum **electrodes**, (2) **electrode** corrosion

 It is important to place the **electrodes** in the correct position for accurate electro-cardiogram recording.

background

n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

synonym: ground, experience, backdrop

(1) a **background** color, (2) a criminal **background**The company's hiring criteria emphasize personality, not a person's **background**.

neuron

 a cell that is specialized to carry information within the brain and between the brain and other parts of the body

synonym: nerve cell

(1) excite the **neurons**, (2) **neuron** cell body

Our body transfers information along each **neuron** using an electrical impulse.

receptor

- an organ having nerve endings that respond to stimulation such as heat or cold and makes the body react in a particular way
- (1) cellular **receptor**, (2) **receptor** for HIV in humans Hay fever occurs when a substance called histamine binds to **receptors** in the nose and eyes.

trigger

- v. to make something happen suddenly; to cause something such as a device, machine, etc. to functionsynonym: activate, spark, drive
- (1) **trigger** a biochemical response, (2) **trigger** inflation The incident **triggered** a political controversy.

revolutionary

adj. relating to or characterized by a complete or dramatic change

synonym: radical, innovative, groundbreaking

(1) **revolutionary** change, (2) enforce **revolutionary** justice The **revolutionary** leader inspired others to join the fight for freedom and democracy.

optical

adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light

synonym: visual, ocular

(1) new optical glasses, (2) optical fiber

The **optical** illusion made it appear like the building was floating in midair.

genetic

adj. of or relating to genes (= parts of the DNA in cells) or the science of genes synonym: hereditary, genetical, inborn

(1) have **genetic** testing, (2) a **genetic** disorder Understanding protein folding is a vital step in deciphering the **genetic** code.

refer

to direct someone's attention, thoughts, or questions to another source or person; to mention, cite, or allude to something as evidence or support

synonym: cite, allude, mention

(1) refer to a book, (2) refer to a map

Please **refer** to the instruction manual for further assistance.

modify

v. to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose

synonym: adjust, alter, revise

(1) genetically **modify** food, (2) **modify** my behavior We use adverbs to **modify** verbs and adjectives.

exposed

adj. having no protection or shield from something, such as bad weather, attack, or criticism

synonym: endangered, revealed, disclosed

(1) exposed to radiation, (2) an exposed rock

Tech companies often employ **exposed** ducts and other materials in their office interiors.

aspiration

 a strong desire to achieve something; the action or process of drawing breath

synonym: ambition, inhalation, intake

- (1) no **aspiration** for fame, (2) **aspiration** into the lungs He has an **aspiration** to become a doctor.
- dry stalks of cereal plants used as fodder, fuel, basket, etc.

synonym: hay, stalk, reed

(1) **straw** basket, (2) rice **straw**

The straw hat protected her face from the sun while she

straw

worked in the fields.

fancy

to want to do or have something; (noun) something that many people believe but that is false, or that does not exist; imagination or fantasy

synonym: imagine, visualize, (noun) fantasy

(1) fancy a cup of coffee, (2) a flight of fancy I don't **fancy** acting in such an important role.

rescue

to save someone or something from a dangerous or difficult situation

synonym: save, extricate, retrieve

(1) rescue a dying dog, (2) rescue a company from bankruptcy

The fire department arrived just in time to **rescue** the family from the burning building.

appealing

adj. attractive or exciting; evoking a positive response or desire; having qualities that are likely to encourage someone to like or enjoy something

synonym: attractive, alluring, captivating

(1) appealing design, (2) an appealing offer

The well-crafted plot and interesting characters made the book very **appealing** to readers

clinical

adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies

synonym: dispassionate, analytic, scientific

(1) **clinical** surgery, (2) participate in **clinical** trials She received special **clinical** training at the hospital.

chronic

adj. being long-lasting and recurrent or characterized by long suffering; habitual

synonym: established, regular, constant

(1) risk of **chronic** disease, (2) **chronic** alcohol consumption

Chronic hyperglycemia is a trigger for a variety of serious

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diseases.

blind

adj. unable to see; unable or unwilling to perceive or understand the true nature of something

synonym: sightless, unseeing, random

(1) **blind** to the beauties, (2) **blind** spot

She was nearly **blind** due to severe diabetes.

witness

a person who sees something happen, especially a crime or an accident

synonym: onlooker, attestant, bystander

(1) **witness** of the car accident, (2) a material **witness**The manufacturing industry is **witnessing** fierce competition.

amazing

adj. extremely surprising, especially in a way that you like or admire

synonym: exceptional, extraordinary, wonderful

(1) **amazing** advances, (2) the most **amazing** feeling. The golfer recorded an **amazing** distance.

Session 2: Spelling

1.	get nes	adj.	worried and anxious about something; relating to the nerves
2.	revary change	adj.	relating to or characterized by a complete or dramatic change
3.	a construction out	n.	a set of clothing worn together, typically for a particular occasion or activity; any cohesive unit such as a company, military, etc.
4.	establish a bane	n.	a starting point or minimum for comparing facts; the back line bounding each end of a tennis or handball court
5.	risk of chc disease	adj.	being long-lasting and recurrent or characterized by long suffering; habitual
6.	trr inflation	v.	to make something happen suddenly; to cause something such as a device, machine, etc. to function
7.	chc alcohol consumption	adj.	being long-lasting and recurrent or characterized by long suffering; habitual
8.	a theoretical concept in neunce	n.	the scientific study of the function, structure, and disorder of the brain and the nervous system
9.	excite the nens	n.	a cell that is specialized to carry information within the brain and between the brain and other parts of the body
10.	no aspon for fame	n.	a strong desire to achieve something;

ANSWERS: 1. nervous, 2. revolutionary, 3. outfit, 4. baseline, 5. chronic, 6. trigger, 7. chronic, 8. neuroscience, 9. neuron, 10. aspiration

the action or process of drawing breath

a cell that is specialized to carry 11. ne n cell body n. information within the brain and between the brain and other parts of the body 12. for in ce a particular example or single n. occurrence of something to direct someone's attention, thoughts, 13. re r to a book ν. or questions to another source or person; to mention, cite, or allude to something as evidence or support a person who sees something happen, 14. a material wi s n. especially a crime or an accident to do something or attempt to attain 15. pu e freedoms ν. something over time; to follow or seek someone or something, especially in trying to catch them 16. b_d grafting a small swelling on a plant stem or twig n. containing an undeveloped shoot to want to do or have something; (noun) 17. a flight of fa y ν. something that many people believe but that is false, or that does not exist; imagination or fantasy 18. el___ de corrosion either of two points or ends of a n. conductor at which electricity enters or leaves an object, substance, or region 19. re e a company from bankruptcy to save someone or something from a ν. dangerous or difficult situation adj. unable to see; unable or unwilling to 20. bl d to the beauties perceive or understand the true nature of something

ANSWERS: 11. neuron, 12. instance, 13. refer, 14. witness, 15. pursue, 16. bud, 17. fancy, 18. electrode, 19. rescue, 20. blind

the organ inside the head that is 21. permanent br n damage n. responsible for one's movement, thought, memory, and feeling to prevent or restrict speech or 22. g g order ν. expression, often through force or intimidation; to bind or cover the mouth to prevent speech; to cause someone to retch or choke; (noun) a device that is placed over someone's mouth to prevent them from speaking or making noise; an order that prohibits a person or group from discussing a particular topic or sharing certain information with others to want to do or have something; (noun) 23. fa y a cup of coffee something that many people believe but that is false, or that does not exist; imagination or fantasy dry stalks of cereal plants used as 24. rice st w n. fodder, fuel, basket, etc. 25. notable in ce a particular example or single n. occurrence of something 26. participate in cl al trials adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies 27. ba ne budget a starting point or minimum for comparing facts; the back line bounding each end of a tennis or handball court to change something slightly, such as a 28. mo y my behavior ν. plan, option, law, etc., especially to make it more suitable for a particular purpose

ANSWERS: 21. brain, 22. gag, 23. fancy, 24. straw, 25. instance, 26. clinical, 27. baseline, 28. modify

29. g_g a newspaper	

v. to prevent or restrict speech or expression, often through force or intimidation; to bind or cover the mouth to prevent speech; to cause someone to retch or choke; (noun) a device that is placed over someone's mouth to prevent them from speaking or making noise; an order that prohibits a person or group from discussing a particular topic or sharing certain information with others

30. a criminal bac____nd

n. the details of a person's social heritage, such as family, vocational or educational experience; past information that is essential to understanding a situation or problem

31. cellular re___or

 an organ having nerve endings that respond to stimulation such as heat or cold and makes the body react in a particular way

32. re____ve factors

adj. considered and evaluated through comparison with something else

33. a gas ch____r

 a large room used for a formal, public, or particular purpose; one of the parts of a parliament

34. bl__d spot

adj. unable to see; unable or unwilling to perceive or understand the true nature of something

35. series of exp____nts

 the scientific test conducted to observe what happens and gain new knowledge

ANSWERS: 29. gag, 30. background, 31. receptor, 32. relative, 33. chamber, 34. blind, 35. experiment

36. wi s of the car accident a person who sees something happen, n. especially a crime or an accident a set of clothing worn together, typically 37. camping ou___t for a particular occasion or activity; any cohesive unit such as a company, military, etc. 38. an ex____d rock adj. having no protection or shield from something, such as bad weather, attack, or criticism 39. the lower ch____r a large room used for a formal, public, or particular purpose; one of the parts of a parliament dry stalks of cereal plants used as 40. st w basket n. fodder, fuel, basket, etc. to direct someone's attention, thoughts, 41. re r to a map ν. or questions to another source or person; to mention, cite, or allude to something as evidence or support the scientific study of the function, 42. the branch of neu nce n. structure, and disorder of the brain and the nervous system to do something or attempt to attain 43. pu e a goal something over time; to follow or seek someone or something, especially in trying to catch them 44. re____or for HIV in humans an organ having nerve endings that n. respond to stimulation such as heat or cold and makes the body react in a particular way

ANSWERS: 36. witness, 37. outfit, 38. exposed, 39. chamber, 40. straw, 41. refer, 42. neuroscience, 43. pursue, 44. receptor

45.	mante figures	ν.	to influence or control something or someone to your advantage, often in ar unfair or dishonest way
46.	prr a window seat	<i>v</i> .	to like, choose, or want one thing or person better than another
47.	a gec disorder	adj.	of or relating to genes (= parts of the DNA in cells) or the science of genes
48.	exd to radiation	adj.	having no protection or shield from something, such as bad weather, attack, or criticism
49.	his meal preces	n.	a stronger liking or interest for something or someone than another thing or person
50.	a bacnd color	n.	the details of a person's social heritage such as family, vocational or educational experience; past information that is essential to understanding a situation or problem
51.	expnt design	n.	the scientific test conducted to observe what happens and gain new knowledge
52.	the most amg feeling	adj.	extremely surprising, especially in a way that you like or admire
53.	frozen brli	n.	a green vegetable with a bunch of small, tight florets on a thick stem that belongs to the cabbage family
54.	amg advances	adj.	extremely surprising, especially in a way that you like or admire
55.	vulnerable to mante	<i>v</i> .	to influence or control something or someone to your advantage, often in ar unfair or dishonest way

ANSWERS: 45. manipulate, 46. prefer, 47. genetic, 48. exposed, 49. preference, 50. background, 51. experiment, 52. amazing, 53. broccoli, 54. amazing, 55. manipulate

56.	basic brn function	n.	the organ inside the head that is responsible for one's movement, thought, memory, and feeling
57.	new opI glasses	adj.	of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
58.	aspon into the lungs	n.	a strong desire to achieve something; the action or process of drawing breath
59.	development of the nes system	adj.	worried and anxious about something; relating to the nerves
60.	an apng offer	adj.	attractive or exciting; evoking a positive response or desire; having qualities that are likely to encourage someone to like or enjoy something
61.	prr physics to chemistry	<i>v</i> .	to like, choose, or want one thing or person better than another
62.	optics manipulation	n.	a branch of biotechnology that involves the use of light to control the activity of genetically modified cells or neurons in living tissue, often used in neuroscience research
63.	genetically moy food	<i>v</i> .	to change something slightly, such as a plan, option, law, etc., especially to make it more suitable for a particular purpose
64.	brli sprout	n.	a green vegetable with a bunch of small, tight florets on a thick stem that belongs to the cabbage family

ANSWERS: 56. brain, 57. optical, 58. aspiration, 59. nervous, 60. appealing, 61. prefer, 62. optogenetics, 63. modify, 64. broccoli

65.	a remote reve	adj.	considered and evaluated through comparison with something else
66.	have gec testing	adj.	of or relating to genes (= parts of the DNA in cells) or the science of genes
67.	optics technique	n.	a branch of biotechnology that involves the use of light to control the activity of genetically modified cells or neurons in living tissue, often used in neuroscience research
68.	enforce revary justice	adj.	relating to or characterized by a complete or dramatic change
69.	platinum eldes	n.	either of two points or ends of a conductor at which electricity enters or leaves an object, substance, or region
70.	clal surgery	adj.	of or relating to the examination and treatment of patients rather than theoretical or laboratory studies
71.	ree a dying dog	<i>v</i> .	to save someone or something from a dangerous or difficult situation
72.	trr a biochemical response	ν.	to make something happen suddenly; to cause something such as a device, machine, etc. to function
73.	apng design	adj.	attractive or exciting; evoking a positive response or desire; having qualities that are likely to encourage someone to like or enjoy something
74.	a particular prece for Chinese art	n.	a stronger liking or interest for something or someone than another thing or person
AN	SWERS: 65. relative, 66. genetic, 67. op	otog	enetics, 68. revolutionary, 69.

electrode, 70. clinical, 71. rescue, 72. trigger, 73. appealing, 74. preference

75. op____I fiber

76. pinch off a b_d

ANSWERS: 75. optical, 76. bud

- adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light
- n. a small swelling on a plant stem or twig containing an undeveloped shoot

Session 3: Fill in the Blanks

These articles cite five of climate change.	
n. a particular example or single occurrence of something	
2. The hat protected her face from the sun while she worked in the fields. n. dry stalks of cereal plants used as fodder, fuel, basket, etc.	
3. Our university is famous for its professors, who are well-versed in behavioral	
n. the scientific study of the function, structure, and disorder of the brain and the nervous system	;
4. The illusion made it appear like the building was floating in midair. adj. of or relating to or light or the ability to see; (noun) the science of light and vision, and to instruments and techniques used in the study and application of light	of
 Our body transfers information along each using an electrical impulse. a cell that is specialized to carry information within the brain and between the brain and other parts of the body 	
 I need to buy a new for the wedding I'm attending next weekend. a set of clothing worn together, typically for a particular occasion or activity; a cohesive unit such as a company, military, etc. 	ıny
7. She received special training at the hospital. adj. of or relating to the examination and treatment of patients rather than theoretical or laboratory studies	
ANSWERS: 1. instances, 2. straw, 3. neuroscience, 4. optical, 5. neuron, 6. outfit, clinical	7.

ANSWERS: 8. modify, 9. revolutionary, 10. bud, 11. optogenetics, 12. amazing, 13. experiments, 14. Chronic, 15. prefer

16. She intends to a poli	tical career.
	to attain something over time; to follow or seek becially in trying to catch them
17. Understanding protein folding	g is a vital step in deciphering the code.
adj. of or relating to genes (= pa	arts of the DNA in cells) or the science of genes
18. He has an to be	ecome a doctor.
n. a strong desire to achieve s	something; the action or process of drawing breath
19. The company's hiring criteria	emphasize personality, not a person's
•	cial heritage, such as family, vocational or st information that is essential to understanding a
20. Please to the instruction	on manual for further assistance.
	on, thoughts, or questions to another source or allude to something as evidence or support
21. He didn't like floret	t and avoided eating it.
n. a green vegetable with a bubelongs to the cabbage fam	unch of small, tight florets on a thick stem that nily
22. It is important to place the electro-cardiogram recording	in the correct position for accurate
n. either of two points or ends an object, substance, or reg	of a conductor at which electricity enters or leaves gion
 Tech companies often emplo interiors. 	y ducts and other materials in their office
adj. having no protection or shie criticism	eld from something, such as bad weather, attack, or
ANSWERS: 16. pursue, 17. gene broccoli, 22. electrodes, 23. expo	etic, 18. aspiration, 19. background, 20. refer, 21.

24.	Hay fever occurs when a substance called histamine binds to in the nose and eyes.
n.	an organ having nerve endings that respond to stimulation such as heat or cold and makes the body react in a particular way
25.	I don't acting in such an important role.
<i>v</i> .	to want to do or have something; (noun) something that many people believe but that is false, or that does not exist; imagination or fantasy
26.	The fire department arrived just in time to the family from the burning building.
<i>v</i> .	to save someone or something from a dangerous or difficult situation
27.	The manufacturing industry is fierce competition.
n.	a person who sees something happen, especially a crime or an accident
28. n.	The surgeon made an incision in the of the patient's heart. a large room used for a formal, public, or particular purpose; one of the parts of a parliament
29.	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
30.	She was nearly due to severe diabetes.
adj	unable to see; unable or unwilling to perceive or understand the true nature of something
31.	Please tell me how to this computer.
<i>v</i> .	to influence or control something or someone to your advantage, often in an unfair or dishonest way
	SWERS: 24. receptors, 25. fancy, 26. rescue, 27. witnessing, 28. chambers, 29. in, 30. blind, 31. manipulate

ANSWERS: 32. baseline, 33. appealing, 34. relatives, 35. triggered, 36. nervous, 37. gagged, 38. preference

Vocab-Builder Ref from	"Greg Gage: Ho	ow you can make	a fruit fly eat veggies	s TED Talk" (38 words)	
ANOMEDO					
ANSWERS:					