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Vocabulary Builder Reference from...

Bart Weetjens: How I taught rats to sniff out land mines | TED Talk https://www.ted.com/talks/bart_weetjens_how_i_taug ht_rats_to_sniff_out_land_mines



Advanced Words Only

IMPORTANT

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Session 1: Word List

	 an explosive device hidden underground and designed to be detonated by the presence, proximity, or contact with a person or vehicle synonym: mine, explosive device, antipersonnel mine
	(1) destroy a landmine, (2) landmine removal
	The antipersonnel landmine was a dangerous obstacle in the war-torn area.
rodent	 a small, gnawing mammal, such as a mouse, rat, or squirrel, that has sharp incisors and typically has a long, thin tail
	synonym: mouse, rat, hamster
	(1) rodent repellent, (2) prevent rodent damage
I	He set up a trap to catch the rodent .
	 a small, furry rodent commonly kept as a pet; often used in research laboratories due to their small size and ease of handling synonym: gerbil, guinea pig, mouse
	(1) hamster wheel, (2) pet hamster
	It's important to clean your hamster's cage frequently to ensure their health and comfort.

gerbil	 a small, burrowing rodent often kept as a pet, known for its long hind legs, soft fur, and long tail
	synonym: hamster, mouse, rat
	(1) gerbil exercise wheel, (2) wild gerbil
	She bought a gerbil cage that was spacious enough for her
	two pets to play and burrow.
squirrel	 a small to medium-sized rodent with a bushy tail, found in almost every part of the world
	synonym: rodent, chipmunk, tree-dweller
	(1) agile squirrel , (2) gray squirrel
	The squirrels in the park were very friendly and came right up to us looking for food.
multicultural	 adj. relating to or characterized by several cultures (= beliefs, languages, customs, traditions, etc.) synonym: diverse, varied, inclusive
	(1) multicultural society, (2) multicultural education
	The school is known for its multicultural student body.
exuberant	 adj. full of energy, enthusiasm, or excitement; lively, animated, or unrestrained in behavior or expression; characterized by abundant growth or profuse production synonym: joyful, elated, ebullient
	(1) exuberant performance, (2) exuberant personality
	The young couple's exuberant energy was infectious, and everyone around them was smiling.
industrious	adj. hardworking, diligent, and persistent in effort synonym: diligent, hardworking, assiduous
	(1) industrious worker, (2) industrious student
	He was known to be very industrious and would often work
	late into the night.
quitter	 n. a person who gives up easily or does not have the determination to finish what they have started synonym: coward, deserter, surrender

	 (1) easy quitter, (2) serial quitter He was labeled as a quitter after he abandoned the project halfway.
vermin	 n. small animals, such as rats and mice, that are considered to be harmful synonym: pests, parasites, rodents
	(1) plague of vermin , (2) vermin control
	She set traps to catch the vermin in her house.
sociable	adj. being friendly, outgoing, and inclined to engage in social activities or interactions; enjoying the company of others <i>synonym</i> : friendly, outgoing, affable
	(1) sociable gathering, (2) sociable atmosphere
	She is a very sociable person who loves meeting new
	people.
olfaction	<i>n.</i> the sense of smell; the ability to detect and perceive odors or scents
	synonym: smell, scent, aroma
	(1) olfaction testing, (2) olfaction receptors
	Some animals have better olfaction than humans, enabling them to detect prey from farther away.
mammal	 any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
	(1) a primitive mammal , (2) a sort of mammal
	Marine mammal populations are declining worldwide due to ocean pollution.
moreover	<i>adv.</i> indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before
	synonym: furthermore, besides, in addition
	(1) moreover, she decided to go, (2) but moreover, they

	work well together The company is environmentally conscious, and moreover, it uses sustainable materials in its products.
smashing	 adj. very successful or impressive; causing something to be broken or destroyed synonym: great, wonderful, breaking
	(1) a smashing blow, (2) give smashing results
	The band's new album was a smashing success, reaching the top of the charts.
syringe	 n. a device used for injecting or withdrawing fluids from the body, consisting of a tube and a plunger that creates a vacuum or expels the fluid synonym: needle, injector, shot
	(1) syringe needle, (2) syringe injection
	Addicts often share dirty syringes , putting themselves at risk for disease.
leash	 n. a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions synonym: tether, lead, restraint
	(1) dog leash , (2) walk on a leash
	Make sure to put the leash on your dog before walking.
minefield	 n. an area or situation that contains a hidden danger or risk, particularly a literal minefield of explosives or a figurative minefield of potential problems or missteps synonym: hazard, danger, obstacle course
	(1) enter a political minefield, (2) navigate the minefield
	The corporate restructuring process was a minefield with
	many obstacles that needed to be navigated.
accredit	 v. to give official recognition or approval to an individual, organization, or educational institution; to attribute something to a particular source or cause

	synonym: authorize, endorse, validate			
	(1) accredit certification organizations, (2) accredit a course			
	The university will accredit the new college if it meets its standards.			
miner	 n. a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth 			
	synonym: digger, excavator, mineworker			
	(1) miner strike, (2) miner industry			
	The coal miner worked tirelessly to extract valuable minerals from deep underground.			
pact	 <i>n.</i> a formal agreement between two or more parties <i>synonym</i>: agreement, treaty, covenant 			
	(1) a nonaggression pact , (2) aviation pact			
	The two countries made a pact to reduce their carbon emissions.			
numb	 adj. unable to feel physical sensation and movement; not showing human feeling or sensitivity synonym: dazed, insensitive, emotionless 			
	(1) numb with cold, (2) a numb mind			
	My left arm became numb .			
etymology	<i>n.</i> the study of the origin and history of words, including changes in meaning and form over time; the history of a particular word or phrase			
	(1) etymology dictionary, (2) the etymology of a word			
	The study of etymology helps us to understand the origins of			
	words.			
exude	 v. to emit or release a liquid, smell, or expression gradually and slowly; to display an emotion, quality, or characteristic in a spontaneous and natural way 			

	 synonym: emit, ooze, radiate (1) exude confidence, (2) exude charm The flowers exude a sweet fragrance.
pollutant	 n. a substance or agent that pollutes or contaminates the environment, typically through release into the air, water, or soil
	synonym: contaminant, toxic substance
	(1) noxious pollutant, (2) water pollutant
	The factory's use of chemicals has made it a significant pollutant in the area.
illicit	adj. forbidden by law, rules, or custom; not approved of or socially acceptable
	synonym: illegal, unlawful, prohibited
	 (1) illicit drugs, (2) illicit trade He was arrested for his illicit activities in the black market.
infect	 v. to affect a person, an animal, or a plant with a disease-causing organism synonym: pollute, contaminate, affect
	(1) infect other animal species, (2) infect a computer with a virus
	Children often infect parents with this head cold.
standardize	 v. to make uniform or consistent in form, quality, or performance; to establish or implement a standard or standardization process
	synonym: uniform, systemize, homogenize
	(1) standardize a language, (2) standardize administrative practices
	The company standardized its procedures to improve efficiency and quality control.
sniff	 v. to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath

	 synonym: smell, inhale, scent (1) sniff the air, (2) sniff the perfume The dog stopped to sniff around the tree, looking for
	something interesting.
pellet	 n. a small, round piece of compressed material, such as wood or plastic synonym: bead, ball, bullet
	(1) the form of a small pellet , (2) pellet stove
	The pellet gun was used to shoot small metal balls.
replicate	 v. to make an exact copy of something; to repeat a process or experiment to confirm the results
	synonym: duplicate, imitate, reproduce
	(1) replicate the cell, (2) replicate data
	The experiment was replicated several times to ensure
	accuracy.
rubble	 n. fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed synonym: debris, ruins, wreckage
	(1) clear away rubble , (2) rubble-strewn road
	After the earthquake, the city was left in a pile of rubble .
empower	<i>v.</i> to give someone the power or authority to do something <i>synonym</i> : authorize, endow, entitle
	(1) empower my life, (2) empower the secretary to do the same
	The company empowered employees to buy low-price items without approval to achieve efficient purchasing.
harmonize	v. to bring into agreement or concord; to make compatible <i>synonym</i> : reconcile, balance, match
	(1) harmonize with others, (2) harmonize two different

opinions

The musicians attempted to **harmonize** their voices for the chorus.

Session 2: Spelling

1.	haze with others	v.	to bring into agreement or concord; to make compatible
2.	serial qur	n.	a person who gives up easily or does not have the determination to finish what they have started
3.	rot repellent	n.	a small, gnawing mammal, such as a mouse, rat, or squirrel, that has sharp incisors and typically has a long, thin tail
4.	the etgy of a word	n.	the study of the origin and history of words, including changes in meaning and form over time; the history of a particular word or phrase
5.	etgy dictionary	n.	the study of the origin and history of words, including changes in meaning and form over time; the history of a particular word or phrase
6.	water pont	n.	a substance or agent that pollutes or contaminates the environment, typically through release into the air, water, or soil
7.	easy qur	n.	a person who gives up easily or does not have the determination to finish what they have started
8.	pet har	n.	a small, furry rodent commonly kept as a pet; often used in research laboratories due to their small size and ease of handling

ANSWERS: 1. harmonize, 2. quitter, 3. rodent, 4. etymology, 5. etymology, 6. pollutant, 7. quitter, 8. hamster

9.	olon receptors	n.	the sense of smell; the ability to detect and perceive odors or scents
10.	the form of a small pet	n.	a small, round piece of compressed material, such as wood or plastic
11.	exe charm	v.	to emit or release a liquid, smell, or expression gradually and slowly; to display an emotion, quality, or characteristic in a spontaneous and natural way
12.	gray sqel	n.	a small to medium-sized rodent with a bushy tail, found in almost every part of the world
13.	dog leh	n.	a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions
14.	wild gel	n.	a small, burrowing rodent often kept as a pet, known for its long hind legs, soft fur, and long tail
15.	har wheel	n.	a small, furry rodent commonly kept as a pet; often used in research laboratories due to their small size and ease of handling
16.	a smng blow	adj.	very successful or impressive; causing something to be broken or destroyed
17.	plague of ven	n.	small animals, such as rats and mice, that are considered to be harmful
18.	a nonaggression pt	n.	a formal agreement between two or more parties

ANSWERS: 9. olfaction, 10. pellet, 11. exude, 12. squirrel, 13. leash, 14. gerbil, 15. hamster, 16. smashing, 17. vermin, 18. pact

19.	mulral society	adj.	relating to or characterized by several cultures (= beliefs, languages, customs, traditions, etc.)
20.	navigate the mild	n.	an area or situation that contains a hidden danger or risk, particularly a literal minefield of explosives or a figurative minefield of potential problems or missteps
21.	sye injection	n.	a device used for injecting or withdrawing fluids from the body, consisting of a tube and a plunger that creates a vacuum or expels the fluid
22.	prevent rot damage	n.	a small, gnawing mammal, such as a mouse, rat, or squirrel, that has sharp incisors and typically has a long, thin tail
23.	aviation pt	n.	a formal agreement between two or more parties
24.	mir industry	n.	a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
25.	snf the perfume	v.	to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath
26.	a sort of maI	n.	any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
27.	ilt drugs	adj.	forbidden by law, rules, or custom; not approved of or socially acceptable

ANSWERS: 19. multicultural, 20. minefield, 21. syringe, 22. rodent, 23. pact, 24. miner, 25. sniff, 26. mammal, 27. illicit

28.	mulral education	adj.	relating to or characterized by several cultures (= beliefs, languages, customs, traditions, etc.)
29.	staze a language	v.	to make uniform or consistent in form, quality, or performance; to establish or implement a standard or standardization process
30.	rete data	v.	to make an exact copy of something; to repeat a process or experiment to confirm the results
31.	rete the cell	v.	to make an exact copy of something; to repeat a process or experiment to confirm the results
32.	a primitive maI	n.	any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
33.	sole atmosphere	adj.	being friendly, outgoing, and inclined to engage in social activities or interactions; enjoying the company of others
34.	lane removal	n.	an explosive device hidden underground and designed to be detonated by the presence, proximity, or contact with a person or vehicle
35.	mir strike	n.	a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
36.	agile sqel	n.	a small to medium-sized rodent with a bushy tail, found in almost every part of the world

ANSWERS: 28. multicultural, 29. standardize, 30. replicate, 31. replicate, 32. mammal, 33. sociable, 34. landmine, 35. miner, 36. squirrel

37.	a nb mind	adj.	unable to feel physical sensation and movement; not showing human feeling or sensitivity
38.	moer, she decided to go	adv.	indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before
39.	snf the air	v.	to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath
40.	exnt personality	adj.	full of energy, enthusiasm, or excitement; lively, animated, or unrestrained in behavior or expression; characterized by abundant growth or profuse production
41.	exe confidence	v.	to emit or release a liquid, smell, or expression gradually and slowly; to display an emotion, quality, or characteristic in a spontaneous and natural way
42.	olon testing	n.	the sense of smell; the ability to detect and perceive odors or scents
43.	haze two different opinions	<i>v</i> .	to bring into agreement or concord; to make compatible
44.	ilt trade	adj.	forbidden by law, rules, or custom; not approved of or socially acceptable
45.	pet stove	n.	a small, round piece of compressed material, such as wood or plastic

ANSWERS: 37. numb, 38. moreover, 39. sniff, 40. exuberant, 41. exude, 42. olfaction, 43. harmonize, 44. illicit, 45. pellet

46.	noxious pont	n.	a substance or agent that pollutes or contaminates the environment, typically through release into the air, water, or soil
47.	rue-strewn road	n.	fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed
48.	indus worker	adj.	hardworking, diligent, and persistent in effort
49.	int a computer with a virus	v.	to affect a person, an animal, or a plant with a disease-causing organism
50.	emr the secretary to do the same	<i>V</i> .	to give someone the power or authority to do something
51.	but moer, they work well together	adv.	indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before
52.	acit a course	v.	to give official recognition or approval to an individual, organization, or educational institution; to attribute something to a particular source or cause
53.	staze administrative practices	v.	to make uniform or consistent in form, quality, or performance; to establish or implement a standard or standardization process

ANSWERS: 46. pollutant, 47. rubble, 48. industrious, 49. infect, 50. empower, 51. moreover, 52. accredit, 53. standardize

54. int other animal species	ν.	to affect a person, an animal, or a plant with a disease-causing organism
55. emr my life	v.	to give someone the power or authority to do something
56. geI exercise wheel	n.	a small, burrowing rodent often kept as a pet, known for its long hind legs, soft fur, and long tail
57. give smng results	adj.	very successful or impressive; causing something to be broken or destroyed
58. clear away rue	n.	fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed
59. nb with cold	adj.	unable to feel physical sensation and movement; not showing human feeling or sensitivity
60. indus student	adj.	hardworking, diligent, and persistent in effort
61. acit certification organizations	v.	to give official recognition or approval to an individual, organization, or educational institution; to attribute something to a particular source or cause
62. walk on a leh	n.	a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions

ANSWERS: 54. infect, 55. empower, 56. gerbil, 57. smashing, 58. rubble, 59. numb, 60. industrious, 61. accredit, 62. leash

63. ven control	n.	small animals, such as rats and mice, that are considered to be harmful
64. sye needle	n.	a device used for injecting or withdrawing fluids from the body, consisting of a tube and a plunger that creates a vacuum or expels the fluid
65. enter a political mild	n.	an area or situation that contains a hidden danger or risk, particularly a literal minefield of explosives or a figurative minefield of potential problems or missteps
66. exnt performance	adj.	full of energy, enthusiasm, or excitement; lively, animated, or unrestrained in behavior or expression; characterized by abundant growth or profuse production
67. destroy a lane	n.	an explosive device hidden underground and designed to be detonated by the presence, proximity, or contact with a person or vehicle
68. sole gathering	adj.	being friendly, outgoing, and inclined to engage in social activities or interactions; enjoying the company of others

ANSWERS: 63. vermin, 64. syringe, 65. minefield, 66. exuberant, 67. landmine, 68. sociable

Session 3: Fill in the Blanks

- 1. My left arm became _____.
- *adj.* unable to feel physical sensation and movement; not showing human feeling or sensitivity
- 2. Make sure to put the _____ on your dog before walking.
- *n.* a long, flexible cord or chain used to restrain or control a dog (or other animals); a figurative tool used to control or limit someone's behavior or actions
- 3. The study of ______ helps us to understand the origins of words.
- *n.* the study of the origin and history of words, including changes in meaning and form over time; the history of a particular word or phrase
- 4. Some animals have better ______ than humans, enabling them to detect prey from farther away.
- *n.* the sense of smell; the ability to detect and perceive odors or scents
- 5. The company ______ employees to buy low-price items without approval to achieve efficient purchasing.
- v. to give someone the power or authority to do something
- 6. She bought a _____ cage that was spacious enough for her two pets to play and burrow.
- *n.* a small, burrowing rodent often kept as a pet, known for its long hind legs, soft fur, and long tail
- 7. Children often _____ parents with this head cold.
- *v*. to affect a person, an animal, or a plant with a disease-causing organism

ANSWERS: 1. numb, 2. leash, 3. etymology, 4. olfaction, 5. empowered, 6. gerbil, 7. infect

- 8. The antipersonnel ______ was a dangerous obstacle in the war-torn area.
- *n.* an explosive device hidden underground and designed to be detonated by the presence, proximity, or contact with a person or vehicle
- 9. The university will ______ the new college if it meets its standards.
- *v.* to give official recognition or approval to an individual, organization, or educational institution; to attribute something to a particular source or cause
- 10. He set up a trap to catch the _____.
- *n.* a small, gnawing mammal, such as a mouse, rat, or squirrel, that has sharp incisors and typically has a long, thin tail
- 11. After the earthquake, the city was left in a pile of _____.
- *n.* fragments of rock, stone, or other materials that remain after a building or other structure has been destroyed or demolished; the remains of something that has been broken down or destroyed
- 12. She is a very _____ person who loves meeting new people.
- *adj.* being friendly, outgoing, and inclined to engage in social activities or interactions; enjoying the company of others
- 13. The dog stopped to _____ around the tree, looking for something interesting.
- v. to inhale audibly through the nose, often to detect or identify a smell; to draw in air through the nostrils with a quick, audible intake of breath
- 14. He was arrested for his _____ activities in the black market.
- *adj.* forbidden by law, rules, or custom; not approved of or socially acceptable
- 15. He was known to be very _____ and would often work late into the night.
- *adj.* hardworking, diligent, and persistent in effort

ANSWERS: 8. landmine, 9. accredit, 10. rodent, 11. rubble, 12. sociable, 13. sniff, 14. illicit, 15. industrious

- 16. The _____ gun was used to shoot small metal balls.
- *n.* a small, round piece of compressed material, such as wood or plastic
- 17. The musicians attempted to ______ their voices for the chorus.
- v. to bring into agreement or concord; to make compatible
- 18. The coal _____ worked tirelessly to extract valuable minerals from deep underground.
- *n.* a person who works in a mine (= excavation in the Earth from which ores and minerals are extracted), especially one who extracts coal, minerals, or precious metals from the Earth
- 19. The corporate restructuring process was a ______ with many obstacles that needed to be navigated.
- *n.* an area or situation that contains a hidden danger or risk, particularly a literal minefield of explosives or a figurative minefield of potential problems or missteps
- 20. He was labeled as a ______ after he abandoned the project halfway.
- *n.* a person who gives up easily or does not have the determination to finish what they have started
- 21. The factory's use of chemicals has made it a significant ______ in the area.
- *n.* a substance or agent that pollutes or contaminates the environment, typically through release into the air, water, or soil
- 22. The band's new album was a ______ success, reaching the top of the charts.
- *adj.* very successful or impressive; causing something to be broken or destroyed
- 23. She set traps to catch the _____ in her house.
- *n.* small animals, such as rats and mice, that are considered to be harmful

ANSWERS: 16. pellet, 17. harmonize, 18. miner, 19. minefield, 20. quitter, 21. pollutant, 22. smashing, 23. vermin

- 24. The company is environmentally conscious, and ______ it uses sustainable materials in its products.
- *adv.* indicating that what follows is an additional or supplementary point; furthermore; in addition to what has been said before
- 25. The young couple's ______ energy was infectious, and everyone around them was smiling.
- *adj.* full of energy, enthusiasm, or excitement; lively, animated, or unrestrained in behavior or expression; characterized by abundant growth or profuse production
- 26. The two countries made a _____ to reduce their carbon emissions.
- *n.* a formal agreement between two or more parties
- 27. Marine _____ populations are declining worldwide due to ocean pollution.
- *n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
- 28. It's important to clean your _____ cage frequently to ensure their health and comfort.
 - *n.* a small, furry rodent commonly kept as a pet; often used in research laboratories due to their small size and ease of handling
- 29. The school is known for its ______ student body.
- *adj.* relating to or characterized by several cultures (= beliefs, languages, customs, traditions, etc.)
- 30. The ______ in the park were very friendly and came right up to us looking for food.
- *n.* a small to medium-sized rodent with a bushy tail, found in almost every part of the world

ANSWERS: 24. moreover, 25. exuberant, 26. pact, 27. mammal, 28. hamster's, 29. multicultural, 30. squirrels

- 31. The experiment was ______ several times to ensure accuracy.
 - v. to make an exact copy of something; to repeat a process or experiment to confirm the results
- 32. Addicts often share dirty _____ putting themselves at risk for disease.
- *n*. a device used for injecting or withdrawing fluids from the body, consisting of a tube and a plunger that creates a vacuum or expels the fluid
- 33. The company ______ its procedures to improve efficiency and quality control.
 - v. to make uniform or consistent in form, quality, or performance; to establish or implement a standard or standardization process
- 34. The flowers _____ a sweet fragrance.
- *v.* to emit or release a liquid, smell, or expression gradually and slowly; to display an emotion, quality, or characteristic in a spontaneous and natural way

ANSWERS: 31. replicated, 32. syringes, 33. standardized, 34. exude