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# Vocabulary Builder Reference from...

Erica Frenkel: The universal anesthesia machine |

TED Talk

https://www.ted.com/talks/erica\_frenkel\_the\_universal

\_anesthesia\_machine



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## **Session 1: Word List**

#### bottleneck

n. a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry

synonym: blockage, obstacle, barrier

(1) performance **bottleneck**, (2) **bottleneck** in production Memory bandwidth is a significant **bottleneck** in this computational simulation.

#### anesthesia

- a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
- (1) **anesthesia** for surgery, (2) local **anesthesia** He is in general **anesthesia** under the surgeon.

## anesthesiologist

 a medical doctor who specializes in administering anesthesia to help control pain and monitor the vital signs of patients during procedures and surgeries

synonym: anesthetist, pain specialist, sedationist

(1) specialized anesthesiologist, (2) clinical anesthesiologist

The experienced **anesthesiologist** monitored the patient's vital signs throughout the procedure.



#### anesthetize

v. to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation

synonym: numb, sedate, drug

(1) **anesthetize** a patient, (2) **anesthetize** a wound The dentist will **anesthetize** your mouth before removing your wisdom teeth.

#### biomedical

 adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

synonym: medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical Biomedical** engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

#### supple

- adj. flexible and easy to bend or move; gracefully agile;adaptable or responsive to change or new ideassynonym: flexible, pliable, bendable
- (1) **supple** muscles, (2) **supple** leather
  The ballerina's **supple** movements left the audience mesmerized.

#### electrify

v. to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something

synonym: wire, amaze, astonish

(1) **electrify** the audience, (2) **electrify** a manufacturing process

The product developed through years of research continues to **electrify** the market.

#### compress

v. to press or squeeze together to make something take up less space

synonym: condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas She **compressed** the files into a single ZIP archive to save space on her computer.

#### proverb

 a short saying that expresses a truth or gives advice based on practical experience

synonym: adage, saying, maxim

(1) a hackneyed proverb, (2) ancient proverb
The famous proverb "actions speak louder than words" reminds us to focus on deeds instead of words.

#### obstetrics

n. the branch of medicine that deals with the care of women during pregnancy, childbirth, and the postpartum period, including the management of complications and the health of the mother and baby

synonym: midwifery, childbirth, tocology

(1) **obstetrics** ward, (2) **obstetrics** clinic

The hospital's **obstetrics** department is responsible for caring for pregnant women and delivering babies.

#### cesarean

adj. (also known as "C-section") relating to the delivery of a baby through a surgical incision made in the mother's abdomen and uterus rather than through vaginal birth

synonym: C-section, surgical birth

(1) **cesarean** delivery, (2) emergency **cesarean**The **cesarean** recovery period can be longer and more challenging than a vaginal birth recovery.

#### auspicious

adj. a situation or event that is marked by potential success, favorable circumstances, or good fortune; a period that is believed to be a sign of favorable outcomes or prosperity

synonym: propitious, favorable, promising

(1) auspicious timing, (2) auspicious sign

The **auspicious** start to the new year brought hope for better times ahead.

#### scrub

v. to clean something thoroughly, typically with a brush and soap or detergent

synonym: clean, wash, sanitize

scrub off graffiti, (2) scrub dirt from potatoes
 She decided to scrub the kitchen floor to remove all the dirt

and grime.

#### headlight

 a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead

*synonym*: headlamp, beam, lamp

(1) headlight adjustment, (2) headlight switch

My car's **headlight** must be replaced before I drive again at night.

#### unreliable

*adj.* not able to be trusted or depended on *synonym*: inconsistent, erratic, undependable

(1) prove **unreliable**, (2) **unreliable** source of information By incorrect assumption, statistics can be notoriously

unreliable.

#### umpteen

adj. very many; relating to a large or indefinite number of something

synonym: countless, numerous, many

(1) **umpteen** hours, (2) **umpteen** attempts

After moving around the world **umpteen** times, I finally settled in my hometown.

#### unspeakable

*adj.* too terrible, shocking, or distressing to speak about *synonym*: unspeakably horrible, indescribable, unutterable

(1) unspeakable crime, (2) unspeakable pain

The survivors of the plane crash could only describe the **unspeakable** horror of the experience.

#### tinker

 to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way

synonym: fiddle, play, fix

(1) **tinker** with the bill, (2) **tinker** with the settings He spent the afternoon **tinkering** with his car engine.

#### pediatrics

 the branch of medicine that deals with the care and treatment of children

synonym: pedology, child health

(1) **pediatrics** department, (2) **pediatrics** clinic I am studying **pediatrics** in medical school because I love working with children.

#### geriatrics

n. a branch of medicine specializing in the healthcare of elderly individuals, including the diagnosis, treatment, and prevention of diseases and conditions that affect older adults

synonym: senescence, old age, elderly care

geriatrics clinic, (2) geriatrics specialist
 The geriatrics department focuses on the healthcare needs of elderly patients.

dilute

v. to make a substance less concentrated by adding a liquid or another substance to it

synonym: weaken, thin, reduce

(1) **dilute** acid with water, (2) **dilute** a great idea She **diluted** the concentrated juice with water.

inhale

- v. to breathe in air or a different substance, such as smoke synonym: breathe in, take in, draw in
- (1) **inhale** the smoke, (2) **inhale** the aroma He **inhaled** deeply, trying to calm down.

#### anesthetic

n. a substance that is administered to a person or an animal to produce a loss of sensation or consciousness so that medical or surgical procedures can be performed without causing pain

synonym: sedative, anesthesia, painkiller

(1) anesthetic injection, (2) local anesthetic

The dentist administered an **anesthetic** to numb the patient's

mouth before the procedure.

#### forbid

- v. to order somebody not to do something, especially officially; to keep something from happening or arising
- synonym: prohibit, ban, outlaw
- (1) **forbid** smoking in public areas, (2) **forbid** the use of chemical weapons

God **forbid** you should regret your marriage.

inlet

a small arm of the sea, a lake, or a river, usually leading inland

synonym: cove, bayou, estuary

(1) **inlet** valve, (2) **inlet** temperature

The boat sailed through the narrow inlet and into the harbor.

#### paralyze

v. to cause a person or part of the body to become unable to move or feel

synonym: immobilize, disable, numb

(1) paralyze a city, (2) paralyze a person

The venom from the snake bite paralyzed his arm.

#### bellows

n. a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely

synonym: blower, puffer, blaster

(1) bellows pump, (2) blow a bellows

The blacksmith's apprentice operated the **bellows** to maintain the forge's heat.

#### ventilate

v. to supply fresh air to a room, building, etc.; to remove stale air from it

synonym: air out, circulate, freshen

(1) **ventilate** my opinion, (2) **ventilate** air

It's important to **ventilate** the room to avoid the buildup of harmful gases.

#### shudder

v. to tremble uncontrollably or convulsively, often due to fear, cold, or intense emotion; to recoil or react strongly to something unpleasant, disturbing, or shocking

synonym: tremble, shake, quiver

(1) **shudder** at the thought, (2) **shudder** with fear I couldn't help but **shudder** when I heard the scary noise from the dark alleyway.

#### wrench

- v. to pull or twist something suddenly or violently synonym: twist, turn, bend
- (1) wrench off the lock, (2) wrench my backA deep sigh was wrenched from his chest.

#### screwdriver

n. a tool used for turning screws, typically consisting of a handle and a metal rod with a flattened tip that fits into the slot on the head of a screw; a popular cocktail made with vodka and orange juice

synonym: screw, driver, wrench

(1) open the can with a **screwdriver**, (2) electric **screwdriver** 

I need a flathead **screwdriver** to tighten the loose screws on this cabinet.

#### pervasive

adj. spreading or existing throughout every part of a thing or place

synonym: extensive, ubiquitous, prevalent

(1) **pervasive** language, (2) the **pervasive** odor of garlic Suspicion and worry were **pervasive** in our minds.

recreate

v. to make something that existed previously happen or appear to exist again

synonym: renovate, vivify, revive

(1) **recreate** a single country, (2) **recreate** the feeling of the 1920s

She **recreated** the atmosphere of the pre-war age with her stage setting.

#### gatekeeper

 a person, organization, or system that controls or monitors access to something, often a website, database, or institution; a person or group that controls or regulates access to information, especially for a particular perspective or interest

synonym: guardian, watchman, custodian

(1) **gatekeeper** role, (2) information **gatekeeper**The company's **gatekeeper screened** all incoming phone calls and emails to ensure only important ones reached the boss.

# **Session 2: Spelling**

1.	unsle crime	adj.	too terrible, shocking, or distressing to speak about	
2.	aneze a patient	ν.	to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation	
3.	performance botck	n.	a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry	
4.	elfy a manufacturing process	<i>v</i> .	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something	
5.	sue leather	adj.	flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas	
6.	open the can with a screr	n.	a tool used for turning screws, typically consisting of a handle and a metal rod with a flattened tip that fits into the slot on the head of a screw; a popular cocktail made with vodka and orange juice	
7.	wrh my back	<i>v</i> .	to pull or twist something suddenly or violently	
ANSWERS: 1. unspeakable, 2. anesthetize, 3. bottleneck, 4. electrify, 5. supple, 6. screwdriver, 7. wrench				

8.	shr with fear	ν.	to tremble uncontrollably or convulsively, often due to fear, cold, or intense emotion; to recoil or react strongly to something unpleasant, disturbing, or shocking
9.	paze a city	v.	to cause a person or part of the body to become unable to move or feel
10.	gater role	n.	a person, organization, or system that controls or monitors access to something, often a website, database, or institution; a person or group that controls or regulates access to information, especially for a particular perspective or interest
11.	gercs clinic	n.	a branch of medicine specializing in the healthcare of elderly individuals, including the diagnosis, treatment, and prevention of diseases and conditions that affect older adults
12.	aneic injection	n.	a substance that is administered to a person or an animal to produce a loss of sensation or consciousness so that medical or surgical procedures can be performed without causing pain
13.	wrh off the lock	ν.	to pull or twist something suddenly or violently
14.	umn hours	adj.	very many; relating to a large or indefinite number of something
15.	aneia for surgery	n.	a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes

ANSWERS: 8. shudder, 9. paralyze, 10. gatekeeper, 11. geriatrics, 12. anesthetic, 13. wrench, 14. umpteen, 15. anesthesia

16.	local aneia	n.	a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
17.	peve language	adj.	spreading or existing throughout every part of a thing or place
18.	the peve odor of garlic	adj.	spreading or existing throughout every part of a thing or place
19.	prove unrle	adj.	not able to be trusted or depended on
20.	pedcs department	n.	the branch of medicine that deals with the care and treatment of children
21.	heht adjustment	n.	a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead
22.	a hackneyed prb	n.	a short saying that expresses a truth or gives advice based on practical experience
23.	information gater	n.	a person, organization, or system that controls or monitors access to something, often a website, database, or institution; a person or group that controls or regulates access to information, especially for a particular perspective or interest
24.	int temperature	<i>n</i> .	a small arm of the sea, a lake, or a river, usually leading inland
25.	sue muscles	adj.	flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
26.	heht switch	n.	a bright forward-facing light on a vehicle, typically used at night to illuminate the road ahead

ANSWERS: 16. anesthesia, 17. pervasive, 18. pervasive, 19. unreliable, 20. pediatrics, 21. headlight, 22. proverb, 23. gatekeeper, 24. inlet, 25. supple, 26. headlight

27.	bes pump	n.	a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely
28.	scb dirt from potatoes	v.	to clean something thoroughly, typically with a brush and soap or detergent
29.	vete air	<i>v</i> .	to supply fresh air to a room, building, etc.; to remove stale air from it
30.	fod the use of chemical weapons	ν.	to order somebody not to do something, especially officially; to keep something from happening or arising
31.	die acid with water	v.	to make a substance less concentrated by adding a liquid or another substance to it
32.	shr at the thought	v.	to tremble uncontrollably or convulsively, often due to fear, cold, or intense emotion; to recoil or react strongly to something unpleasant, disturbing, or shocking
33.	bioal assay	adj.	relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
34.	ine the aroma	v.	to breathe in air or a different substance, such as smoke
35.	unsle pain	adj.	too terrible, shocking, or distressing to speak about

ANSWERS: 27. bellows, 28. scrub, 29. ventilate, 30. forbid, 31. dilute, 32. shudder, 33. biomedical, 34. inhale, 35. unspeakable

36.	aneze a wound		ν.	to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation
37.	blow a bes		n.	a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely
38.	clinical ane	ist	n.	a medical doctor who specializes in administering anesthesia to help control pain and monitor the vital signs of patients during procedures and surgeries
39.	pedcs clinic		n.	the branch of medicine that deals with the care and treatment of children
40.	umn attempts		adj.	very many; relating to a large or indefinite number of something
41.	int valve		n.	a small arm of the sea, a lake, or a river, usually leading inland
42.	local aneic		n.	a substance that is administered to a person or an animal to produce a loss of sensation or consciousness so that medical or surgical procedures can be performed without causing pain
43.	ausus sign		adj.	a situation or event that is marked by potential success, favorable circumstances, or good fortune; a period that is believed to be a sign of favorable outcomes or prosperity
ΔΝ	SWERS: 36 anesthetize	37 hellows 3	18 a	nesthesiologist 39 pediatrics 40

ANSWERS: 36. anesthetize, 37. bellows, 38. anesthesiologist, 39. pediatrics, 40. umpteen, 41. inlet, 42. anesthetic, 43. auspicious

44.	fod smoking in public areas	v.	to order somebody not to do something, especially officially; to keep something from happening or arising
45.	obscs ward	n.	the branch of medicine that deals with the care of women during pregnancy, childbirth, and the postpartum period, including the management of complications and the health of the mother and baby
46.	obscs clinic	n.	the branch of medicine that deals with the care of women during pregnancy, childbirth, and the postpartum period, including the management of complications and the health of the mother and baby
47.	emergency cean	adj.	( also known as "C-section") relating to the delivery of a baby through a surgical incision made in the mother's abdomen and uterus rather than through vaginal birth
48.	ausus timing	adj.	a situation or event that is marked by potential success, favorable circumstances, or good fortune; a period that is believed to be a sign of favorable outcomes or prosperity
49.	tir with the bill	v.	to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
50.	rete a single country	ν.	to make something that existed previously happen or appear to exist again

ANSWERS: 44. forbid, 45. obstetrics, 46. obstetrics, 47. cesarean, 48. auspicious, 49. tinker, 50. recreate

51.	specialized aneist	n.	a medical doctor who specializes in administering anesthesia to help contro pain and monitor the vital signs of patients during procedures and surgeries
52.	elfy the audience	v.	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something
53.	unrle source of information	adj.	not able to be trusted or depended on
54.	cutting-edge bioal	adj.	relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
55.	coss the chest	v.	to press or squeeze together to make something take up less space
56.	gercs specialist	n.	a branch of medicine specializing in the healthcare of elderly individuals, including the diagnosis, treatment, and prevention of diseases and conditions that affect older adults
57.	rete the feeling of the 1920s	ν.	to make something that existed previously happen or appear to exist again
58.	paze a person	v.	to cause a person or part of the body to become unable to move or feel
59.	ine the smoke	v.	to breathe in air or a different substance, such as smoke
60.	die a great idea	v.	to make a substance less concentrated by adding a liquid or another substance to it

ANSWERS: 51. anesthesiologist, 52. electrify, 53. unreliable, 54. biomedical, 55. compress, 56. geriatrics, 57. recreate, 58. paralyze, 59. inhale, 60. dilute

61.	botck in production	n.	a narrow or busy section of road or a junction where the traffic often gets slower and stops; anything that slows down development or progress, especially in business or industry
62.	tir with the settings	<i>v</i> .	to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
63.	scb off graffiti	<i>v</i> .	to clean something thoroughly, typically with a brush and soap or detergent
64.	cean delivery	adj.	( also known as "C-section") relating to the delivery of a baby through a surgical incision made in the mother's abdomen and uterus rather than through vaginal birth
65.	electric screr	n.	a tool used for turning screws, typically consisting of a handle and a metal rod with a flattened tip that fits into the slot on the head of a screw; a popular cocktail made with vodka and orange juice
66.	vete my opinion	ν.	to supply fresh air to a room, building, etc.; to remove stale air from it
67.	ancient prb	n.	a short saying that expresses a truth or gives advice based on practical experience
68.	coss gas	<i>v</i> .	to press or squeeze together to make something take up less space

ANSWERS: 61. bottleneck, 62. tinker, 63. scrub, 64. cesarean, 65. screwdriver, 66. ventilate, 67. proverb, 68. compress

# **Session 3: Fill in the Blanks**

1.	After moving around the world times, I finally settled in my hometown.
adj	very many; relating to a large or indefinite number of something
2.	The boat sailed through the narrow and into the harbor.
n.	a small arm of the sea, a lake, or a river, usually leading inland
3.	He spent the afternoon with his car engine.
<i>v</i> .	to make repairs, adjustments, or improvements to something, especially in an experimental or makeshift way
4.	She the atmosphere of the pre-war age with her stage setting.
ν.	to make something that existed previously happen or appear to exist again
5.	The blacksmith's apprentice operated the to maintain the forge's heat.
n.	a device consisting of a bag or chamber with flexible sides that is expanded and contracted to draw in air through a valve and then force it out through a tube; a device used to blow air into a fire to make it burn more intensely
6.	He deeply, trying to calm down.
v.	to breathe in air or a different substance, such as smoke
7.	The start to the new year brought hope for better times ahead.
adj	a situation or event that is marked by potential success, favorable circumstances, or good fortune; a period that is believed to be a sign of favorable outcomes or prosperity
8.	The dentist administered an to numb the patient's mouth before the procedure.
n.	a substance that is administered to a person or an animal to produce a loss of sensation or consciousness so that medical or surgical procedures can be performed without causing pain

ANSWERS: 1. umpteen, 2. inlet, 3. tinkering, 4. recreated, 5. bellows, 6. inhaled, 7. auspicious, 8. anesthetic

9.	God you should regret your marriage.
v.	to order somebody not to do something, especially officially; to keep something from happening or arising
10.	By incorrect assumption, statistics can be notoriously
adj	not able to be trusted or depended on
11.	engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.
adj	relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
12.	I couldn't help but when I heard the scary noise from the dark alleyway
ν.	to tremble uncontrollably or convulsively, often due to fear, cold, or intense emotion; to recoil or react strongly to something unpleasant, disturbing, or shocking
13.	It's important to the room to avoid the buildup of harmful gases.
ν.	to supply fresh air to a room, building, etc.; to remove stale air from it
14.	The department focuses on the healthcare needs of elderly patients.
n.	a branch of medicine specializing in the healthcare of elderly individuals, including the diagnosis, treatment, and prevention of diseases and conditions that affect older adults
15.	The company's all incoming phone calls and emails to ensure only important ones reached the boss.
n.	a person, organization, or system that controls or monitors access to something, often a website, database, or institution; a person or group that controls or regulates access to information, especially for a particular perspective or interest
	SWERS: 9. forbid, 10. unreliable, 11. Biomedical, 12. shudder, 13. ventilate, 14. iatrics, 15. gatekeeper screened

ANSWERS: 16. obstetrics, 17. scrub, 18. bottleneck, 19. paralyzed, 20. proverb, 21. anesthesiologist, 22. wrenched

to pull or twist something suddenly or violently

ANSWERS: 23. compressed, 24. cesarean, 25. pediatrics, 26. screwdriver, 27 unspeakable, 28. diluted, 29. headlight

30.	The product developed through years of research continues tot market.	the
v.	to make a machine or system work by using electricity; to make someone extremely enthusiastic about or interested in something	
31.	The dentist will your mouth before removing your wisdom tee	th.
v.	to administer a drug or other substance that causes a loss of sensation or consciousness, often to perform a medical procedure; to numb or dull a physical or emotional sensation	
32.	Suspicion and worry were in our minds.	
adj	spreading or existing throughout every part of a thing or place	
33.	The ballerina's movements left the audience mesmerized.	
adj	flexible and easy to bend or move; gracefully agile; adaptable or responsive change or new ideas	ve to
34.	He is in general under the surgeon.	
n.	a state of controlled, temporary loss of bodily sensation or awareness that induced for medical purposes	is
AN	SWERS: 30. electrify, 31. anesthetize, 32. pervasive, 33. supple, 34. anesthe	esia