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## Vocabulary Builder Reference from...

Hyunsoo Joshua No: Performing brain surgery without a scalpel | TED Talk https://www.ted.com/talks/hyunsoo\_joshua\_no\_perfor ming\_brain\_surgery\_without\_a\_scalpel



#### Advanced Words Only

#### IMPORTANT

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#### Session 1: Word List

incision	<ul> <li><i>n</i>. a sharp cut made in something with a sharp tool, especially during a medical procedure</li> <li><i>synonym</i>: cut, slit, laceration</li> </ul>
	<ul><li>(1) incision tool, (2) small incision</li><li>Patients undergoing incisional surgery are often put to sleep</li></ul>
	by anesthesia.
scalpel	<ul> <li>n. a small, sharp knife or blade used in surgery or dissection for cutting tissue or separating parts of the body</li> <li>synonym: knife, surgical instrument, blade</li> </ul>
	(1) surgical <b>scalpel</b> , (2) precision <b>scalpel</b>
	The surgeon used an electric <b>scalpel</b> to make a precise incision during the operation.
emit	<ul> <li>v. to give off or send out something such as light, heat, sound, gas, etc.</li> <li>synonym: give off, radiate, expel</li> </ul>
	<ul> <li>(1) emit a gamma ray, (2) emit air pollution</li> <li>During the unloading, the container box emits a clicking sound.</li> </ul>

stereotactic	<ul> <li>adj. relating to a precise, three-dimensional coordinate system used in medical procedures and diagnostic imaging, such as stereotactic surgery, which involves the use of a rigid head frame or a specialized device to target a specific area of the brain or other body part synonym: precise, accurate, exact</li> </ul>
	(1) stereotactic biopsy, (2) stereotactic radiosurgery
	The surgeon used a <b>stereotactic</b> device to target the tumor
	during the procedure precisely.
scrub	<ul> <li>v. to clean something thoroughly, typically with a brush and soap or detergent</li> <li>synonym: clean, wash, sanitize</li> </ul>
	(1) scrub off graffiti, (2) scrub dirt from potatoes
	She decided to <b>scrub</b> the kitchen floor to remove all the dirt and grime.
rev	<ul> <li>n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute</li> </ul>
	synonym: revolution, RPM, speed
	(1) low- <b>rev</b> engine, (2) <b>rev</b> up the crowd
	He stepped on the gas pedal, and the engine released a loud <b>rev</b> .
propagate	<ul> <li>v. to spread or promote something widely, particularly beliefs, ideas, or plants and animals through reproduction</li> </ul>
	synonym: propagate, multiply, reproduce
	(1) propagate a rumor, (2) propagate plants
	The company is working hard to propagate their brand
	message to as many people as possible
converge	<ul> <li>v. to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet synonym: congregate, assemble, concentrate</li> </ul>

	<ul> <li>(1) converge of a series, (2) converge from different points</li> <li>The two rivers converge into one near this area.</li> </ul>
inescapable	<i>adj.</i> impossible to avoid or evade <i>synonym</i> : unavoidable, inevitable, ineluctable
	(1) inescapable fate, (2) an inescapable position
	The consequences of his actions were inescapable, and he
	had to face the consequences.
ingenious	<i>adj.</i> showing inventiveness and ability or skill <i>synonym</i> : creative, innovative, inventive
	(1) ingenious device, (2) ingenious idea
	I always look forward to reading his stories since they're so ingenious.
intersect	<i>v.</i> to meet or cross one another <i>synonym</i> : cross, bisect, cut
	(1) <b>intersect</b> at a point, (2) railways <b>intersect</b> the country
	Her multidisciplinary works <b>intersect</b> music and picture with writing.
cascade	<ul> <li>n. a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units synonym: waterfall, watercourse, step</li> </ul>
	(1) cascade connection, (2) transistor cascade
	The cascade of waterfalls in the national park was a
	breathtaking sight.
inhospitable	<ul> <li>adj. harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you</li> <li>synonym: sterile, unfriendly, unwelcoming</li> </ul>
	(1) <b>inhospitable</b> environment, (2) in an <b>inhospitable</b> manner
	He trekked across some of the most <b>inhospitable</b> mountains in the world.

husk	<ul> <li>n. the dry, outer covering of a seed, grain, or fruit, such as the shell of a nut or the skin of a corn kernel</li> <li>synonym: shell, covering, outer layer</li> </ul>		
	(1) husk removal, (2) seed husk		
	The <b>husk</b> of the coconut was removed to reveal the fruit inside.		
scar	<ul> <li>n. a mark that remains on the skin after a wound has healed</li> <li>synonym: blemish, imperfection, blotch</li> </ul>		
	(1) burn <b>scar</b> , (2) carry a <b>scar</b>		
	Even after the wound has healed, a <b>scar</b> remains.		
meningioma	<ul> <li>n. a type of tumor that develops in the meninges, the protective membranes that surround the brain and spinal cord, often slow-growing and benign but can cause symptoms and require medical treatment depending on location and size</li> <li>synonym: brain tumor, meningeal tumors</li> </ul>		
	(1) meningioma surgery, (2) meningioma treatment		
	Advanced imaging techniques can help with the diagnosis of		
	meningioma.		
recurrence	<ul> <li>n. the act of happening again or recurring; the return of something, such as a disease or symptom, after a period of abatement or remission</li> </ul>		
	synonym: repetition, return, reappearance		
	(1) <b>recurrence</b> rate, (2) <b>recurrence</b> after chemotherapy		
	The <b>recurrence</b> of the flu every winter is a common occurrence.		
pancreas	<ul> <li>n. a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine</li> <li>synonym: gland, organ, islet</li> </ul>		
	(1) pancreas inflammation, (2) pancreas function		

	The endocrine function of the <b>pancreas</b> involves the secretion of hormones such as insulin.		
epilepsy	<ul> <li>n. a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors</li> <li>synonym: seizures, convulsions, fits</li> </ul>		
	(1) epilepsy seizure, (2) epilepsy medication		
	The flashing lights at the concert triggered her <b>epilepsy</b> and caused a seizure.		
obsessive	<ul> <li>adj. relating to or characterized by an obsession or excessive interest in a particular thing or activity; tending to dwell on or repeat certain thoughts or behaviors</li> <li>synonym: compulsive, fixated, besetting</li> </ul>		
	(1) obsessive-compulsive disorder, (2) obsessive		
	thoughts		
	Her <b>obsessive</b> behavior towards perfectionism often led to		
	burnout.		
compulsive	<ul> <li>adj. relating to or involving an irresistible urge to do something repeatedly or excessively, often in a way that is harmful or detrimental to one's well-being or relationships</li> </ul>		
	synonym: compelling, obsessive, uncontrollable		
	(1) <b>compulsive</b> gambling, (2) <b>compulsive</b> behavior		
	He had a <b>compulsive</b> need to check the stove was turned off		
	every time he left the house.		
pave	<ul> <li>v. to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use</li> </ul>		
	synonym: surface, coat, cover		
	(1) <b>pave</b> a new path, (2) <b>pave</b> a smoother road		
	They <b>paved</b> the courtyard with bricks, giving it a more polished appearance.		

# **Session 2: Spelling**

1.	et air pollution	v.	to give off or send out something such as light, heat, sound, gas, etc.
2.	cae connection	n.	a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
3.	scb off graffiti	v.	to clean something thoroughly, typically with a brush and soap or detergent
4.	inus device	adj.	showing inventiveness and ability or skill
5.	prte plants	ν.	to spread or promote something widely, particularly beliefs, ideas, or plants and animals through reproduction
6.	paas inflammation	n.	a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine
7.	inct at a point	<i>v</i> .	to meet or cross one another
8.	coge from different points	v.	to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
9.	paas function	n.	a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine

ANSWERS: 1. emit, 2. cascade, 3. scrub, 4. ingenious, 5. propagate, 6. pancreas, 7. intersect, 8. converge, 9. pancreas

10. pe a smoother road	v.	to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use
11. inus idea	adj.	showing inventiveness and ability or skill
12. stetic radiosurgery	adj.	relating to a precise, three-dimensional coordinate system used in medical procedures and diagnostic imaging, such as stereotactic surgery, which involves the use of a rigid head frame or a specialized device to target a specific area of the brain or other body part
13. epsy medication	n.	a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
14. in an inhble manner	adj.	harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you
15. et a gamma ray	v.	to give off or send out something such as light, heat, sound, gas, etc.
16. obve-compulsive disorder	adj.	relating to or characterized by an obsession or excessive interest in a particular thing or activity; tending to dwell on or repeat certain thoughts or behaviors
17. recce after chemotherapy	n.	the act of happening again or recurring; the return of something, such as a disease or symptom, after a period of abatement or remission

ANSWERS: 10. pave, 11. ingenious, 12. stereotactic, 13. epilepsy, 14. inhospitable, 15. emit, 16. obsessive, 17. recurrence

18. obve thoughts	adj.	relating to or characterized by an obsession or excessive interest in a particular thing or activity; tending to dwell on or repeat certain thoughts or behaviors
19. epsy seizure	n.	a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
20. carry a sr	n.	a mark that remains on the skin after a wound has healed
21. railways inct the country	ν.	to meet or cross one another
22. coge of a series	v.	to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
23. low-r_v engine	n.	a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
24. menma treatment	n.	a type of tumor that develops in the meninges, the protective membranes that surround the brain and spinal cord, often slow-growing and benign but can cause symptoms and require medical treatment depending on location and size
25. seed hk	n.	the dry, outer covering of a seed, grain, or fruit, such as the shell of a nut or the skin of a corn kernel

ANSWERS: 18. obsessive, 19. epilepsy, 20. scar, 21. intersect, 22. converge, 23. rev, 24. meningioma, 25. husk

26. scb dirt from potatoes	ν.	to clean something thoroughly, typically with a brush and soap or detergent
27. comve gambling	adj.	relating to or involving an irresistible urge to do something repeatedly or excessively, often in a way that is harmful or detrimental to one's well-being or relationships
28. comve behavior	adj.	relating to or involving an irresistible urge to do something repeatedly or excessively, often in a way that is harmful or detrimental to one's well-being or relationships
29. menma surgery	n.	a type of tumor that develops in the meninges, the protective membranes that surround the brain and spinal cord, often slow-growing and benign but can cause symptoms and require medical treatment depending on location and size
30. pe a new path	v.	to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use
31. precision scl	n.	a small, sharp knife or blade used in surgery or dissection for cutting tissue or separating parts of the body
32. inele fate	adj.	impossible to avoid or evade
33. surgical scl	n.	a small, sharp knife or blade used in surgery or dissection for cutting tissue or separating parts of the body

ANSWERS: 26. scrub, 27. compulsive, 28. compulsive, 29. meningioma, 30. pave, 31. scalpel, 32. inescapable, 33. scalpel

34. stetic biopsy	adi.	relating to a precise, three-dimensional
		coordinate system used in medical procedures and diagnostic imaging, such as stereotactic surgery, which involves the use of a rigid head frame or a specialized device to target a specific area of the brain or other body part
35. small inon	n.	a sharp cut made in something with a sharp tool, especially during a medical procedure
36. an inele position	adj.	impossible to avoid or evade
37. transistor cae	n.	a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
38. r_v up the crowd	n.	a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
39. recce rate	n.	the act of happening again or recurring; the return of something, such as a disease or symptom, after a period of abatement or remission
40. inhble environment	adj.	harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you
41. hk removal	n.	the dry, outer covering of a seed, grain, or fruit, such as the shell of a nut or the skin of a corn kernel

ANSWERS: 34. stereotactic, 35. incision, 36. inescapable, 37. cascade, 38. rev, 39. recurrence, 40. inhospitable, 41. husk

42. prte a rumor	<ul> <li>v. to spread or promote someth particularly beliefs, ideas, or animals through reproductior</li> </ul>	plants and
43. inon tool	<ul> <li>n. a sharp cut made in somethin sharp tool, especially during procedure</li> </ul>	0
44. burn sr	n. a mark that remains on the s wound has healed	kin after a

ANSWERS: 42. propagate, 43. incision, 44. scar

## Session 3: Fill in the Blanks

- 1. He trekked across some of the most \_\_\_\_\_ mountains in the world.
- *adj.* harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you
- 2. During the unloading, the container box \_\_\_\_\_ a clicking sound.
- *v.* to give off or send out something such as light, heat, sound, gas, etc.
- 3. The consequences of his actions were \_\_\_\_\_\_ and he had to face the consequences.
- *adj.* impossible to avoid or evade
- 4. The two rivers \_\_\_\_\_ into one near this area.
  - *v.* to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
- 5. I always look forward to reading his stories since they're so \_\_\_\_\_.
- adj. showing inventiveness and ability or skill
- 6. Her multidisciplinary works \_\_\_\_\_ music and picture with writing.
- v. to meet or cross one another
- 7. The flashing lights at the concert triggered her \_\_\_\_\_ and caused a seizure.
- *n.* a neurological disorder characterized by recurrent seizures or convulsions, which can manifest in a variety of ways and be caused by various factors
- 8. Patients undergoing \_\_\_\_\_\_ surgery are often put to sleep by anesthesia.
- *n.* a sharp cut made in something with a sharp tool, especially during a medical procedure

ANSWERS: 1. inhospitable, 2. emits, 3. inescapable, 4. converge, 5. ingenious, 6. intersect, 7. epilepsy, 8. incisional

- 9. Her \_\_\_\_\_\_ behavior towards perfectionism often led to burnout.
- *adj.* relating to or characterized by an obsession or excessive interest in a particular thing or activity; tending to dwell on or repeat certain thoughts or behaviors
- 10. She decided to \_\_\_\_\_ the kitchen floor to remove all the dirt and grime.
- v. to clean something thoroughly, typically with a brush and soap or detergent
- 11. The surgeon used a \_\_\_\_\_\_ device to target the tumor during the procedure precisely.
  - *adj.* relating to a precise, three-dimensional coordinate system used in medical procedures and diagnostic imaging, such as stereotactic surgery, which involves the use of a rigid head frame or a specialized device to target a specific area of the brain or other body part
- 12. The \_\_\_\_\_ of the coconut was removed to reveal the fruit inside.
- *n.* the dry, outer covering of a seed, grain, or fruit, such as the shell of a nut or the skin of a corn kernel
- 13. He stepped on the gas pedal, and the engine released a loud \_\_\_\_\_.
- *n.* a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
- 14. The surgeon used an electric \_\_\_\_\_\_ to make a precise incision during the operation.
- *n.* a small, sharp knife or blade used in surgery or dissection for cutting tissue or separating parts of the body
- 15. The endocrine function of the \_\_\_\_\_ involves the secretion of hormones such as insulin.
- *n.* a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine

ANSWERS: 9. obsessive, 10. scrub, 11. stereotactic, 12. husk, 13. rev, 14. scalpel, 15. pancreas

- 16. They \_\_\_\_\_ the courtyard with bricks, giving it a more polished appearance.
- *v.* to cover something with a hard, flat material such as stones, bricks, or concrete, to make it suitable for travel or use
- 17. He had a \_\_\_\_\_\_ need to check the stove was turned off every time he left the house.
- *adj.* relating to or involving an irresistible urge to do something repeatedly or excessively, often in a way that is harmful or detrimental to one's well-being or relationships
- 18. Advanced imaging techniques can help with the diagnosis of \_\_\_\_\_\_.
- *n*. a type of tumor that develops in the meninges, the protective membranes that surround the brain and spinal cord, often slow-growing and benign but can cause symptoms and require medical treatment depending on location and size
- 19. The \_\_\_\_\_\_ of the flu every winter is a common occurrence.
- *n.* the act of happening again or recurring; the return of something, such as a disease or symptom, after a period of abatement or remission
- 20. The company is working hard to \_\_\_\_\_\_ their brand message to as many people as possible
- *v.* to spread or promote something widely, particularly beliefs, ideas, or plants and animals through reproduction
- 21. Even after the wound has healed, a \_\_\_\_\_ remains.
- *n.* a mark that remains on the skin after a wound has healed
- 22. The \_\_\_\_\_\_ of waterfalls in the national park was a breathtaking sight.
- *n.* a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units

ANSWERS: 16. paved, 17. compulsive, 18. meningioma, 19. recurrence, 20. propagate, 21. scar, 22. cascade

#### ANSWERS: