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Vocabulary Builder Reference from...

Geraldine Hamilton: Body parts on a chip | TED Talk https://www.ted.com/talks/geraldine_hamilton_body_parts_on_a_chip



Advanced Words Only

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Session 1: Word List

untreated

adj. not given medical care or treatment; not subjected to chemical or physical treatment

synonym: raw, unprocessed, coarse

(1) an **untreated** disease, (2) dispose of **untreated** formalin solution

Heat stroke is the result of **untreated** heat exhaustion.

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.

biochemical

adj. relating to the chemical processes and substances that occur within living organisms

synonym: molecular, biological

(1) **biochemical** reaction, (2) complex **biochemical Biochemical** research is essential to understanding the complex chemical reactions in living organisms.

industrious

adj. hardworking, diligent, and persistent in effort

synonym: diligent, hardworking, assiduous

(1) industrious worker,	(2) industrious student
He was known to be very	y industrious and would often work
late into the night.	

capillary

- a tube of small internal diameter; any of the minute tubes that carry blood
- a capillary tube, (2) capillary action
 There are many capillary vessels in the gills of fish.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym: mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments He is very popular at school because he can **mimic** all the teachers' accents.

invade

v. to enter aggressively into another's territory by military force for conquest and occupation

synonym: intrude, raid, overrun

(1) **invade** other tissues, (2) **invade** his privacy I have no intention to **invade** your privacy.

engulf

- v. to swallow up; to surround and cover completely synonym: swallow, submerge, inundate
- (1) **engulf** the politician, (2) **engulf** in water The fire quickly **engulfed** the entire building.

visualize

v. to form a mental image or concept of something; to make something visible

synonym: imagine, picture, envision

(1) **visualize** data, (2) **visualize** flying through space She tried to **visualize** the layout of the new house in her mind.

wiggle

v. to move or cause to move up and down or from side to side in short and quick movements

synonym:

wiggle, jiggle, squirm

(1) **wiggle** her lips, (2) **wiggle** with excitement Her hips **wiggle** as she walks.

airway

n. the air passage from the nose and throat to the lungs; a designated route followed by airplanes flying from one airport to another

synonym: air passage, air duct, skyway

(1) airway blockage, (2) airway beacon

When performing lifesaving, the first step is to secure the airway.

cilium

 a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris

synonym: eyelash, flagellum

(1) **cilium** movement, (2) primary **cilium**

The microscopic analysis revealed a **cilium's** presence on the single-celled organism's surface.

mucus

 a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.

synonym: secretion, slime, saliva

(1) airway mucus, (2) nasal mucus

When the body temperature drops, mucus secretion fails.

particulate

adj. consisting of small particles, especially those that are suspended in a fluid or air

synonym: granular, dusty

(1) particulate size, (2) particulate pollution

Smoke from forest fires is causing an increase in **particulate** matter in the air.

allergen

 a substance, such as pollen, dust mites, certain foods, or pet dander that can trigger an allergic reaction in susceptible individuals

synonym: irritant, trigger, substance

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anergen

(1) airborne **allergen**, (2) seasonal **allergen**Pollen is a common **allergen** that triggers hay fever in many people.

bronchitis

n. an inflammation of the bronchial tubes, often resulting in cough, chest discomfort, and difficulty breathing, can be caused by viral or bacterial infections, environmental irritants, or other factors

synonym: chest cold, respiratory infection, bronchial inflammation

(1) viral bronchitis, (2) chronic bronchitis

I have a terrible case of **bronchitis** and need to see a doctor.

cyst

 a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment

synonym: abscess, sac, lump

(1) cyst removal, (2) ovarian cyst

The patient was sent for an X-ray to determine the cause of the **cyst** in her abdomen.

fibrosis

n. the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure

synonym: scarring, hardening, fibrotic disease

(1) **fibrosis** diagnosis, (2) pulmonary **fibrosis**

The doctor diagnosed him with cardiac **fibrosis**, which put him at risk for heart failure.

peristaltic

adj. relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract

synonym: contractile, rhythmic, pulsating

(1) **peristaltic** contractions, (2) **peristaltic** pump

The intestines' peristaltic movement helps propel food

through the digestive system.

trickle

 to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities

synonym: dribble, flow, seep

(1) **trickle** down my cheek, (2) **trickle** from his eyes Water was beginning to **trickle** into the basement after the heavy rain.

intestine

 a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products

synonym: gut, bowel, tract

(1) large intestine, (2) intestine wall

The small **intestine** is responsible for absorbing most of the nutrients from food.

irritable

adj. easily or frequently agitated, annoyed, or angered; prone to becoming tense or angry in response to minor stimuli or events

synonym: cranky, grumpy, touchy

(1) **irritable** bowel syndrome, (2) **irritable** mood

Lack of sleep can make me **irritable** and easily annoyed.

debilitating

adj. weakening or damaging; causing a loss of strength, energy, or success

synonym: weakening, exhausting

(1) debilitating virus, (2) debilitating effect

His **debilitating** illness made it difficult for him to leave the house.

interconnect

v. to connect similar things

synonym: interlink, complect, annex

(1) directly **interconnect** with those systems, (2) human activities **interconnect** with the environment

Our system can now interconnect with other databases.

excite

- to make someone feel suddenly enthusiastic or eager synonym: thrill, exhilarate, animate
- (1) **excite** the crowd, (2) **excite** rebellion

The news of her promotion **excited** her.

aerosol

a substance enclosed under pressure and released as a fine spray, typically one used for medical purposes or cosmetic application

synonym: spray, mist, fog

(1) aerosol container, (2) aerosol can

She waited a few seconds after spraying the aerosol insecticide before entering the room.

inhale

- 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.

doe

a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

synonym: rabbit, bunny, hare

(1) doe rabbit, (2) buck and doe

Hunters use a whistle that makes the **doe** sound to lure stags.

excrete

to discharge waste matter, such as urine or feces, from the body or a cell or gland

synonym: eliminate, expel, secrete

(1) excrete a sticky liquid, (2) excrete waste products The body **excretes** excess salt through urine to maintain proper electrolyte balance.

revolutionize

to bring about a complete or radical change in something, often through the introduction of new methods or ideas

synonym: transform, innovate, modernize

(1) **revolutionize** the industry, (2) **revolutionize** the

technology

The invention of the smartphone **revolutionized** the way we communicate with each other.

Ebola

 a highly contagious and often fatal viral disease that causes severe fever and internal bleeding, primarily occurring in remote areas of Central and West Africa

synonym: viral hemorrhagic fever, EVD

(1) Ebola epidemic, (2) Ebola virus

The **Ebola** outbreak in West Africa caused widespread panic and fear.

clinician

a practitioner, especially of medicine or psychology, who
has direct contact with patients

synonym: psychiatrist, therapist, doctor

(1) experienced **clinician**, (2) from a **clinician's** perspective Some **clinicians** believe that psychological characteristics alone may cause mental disorders.

converge

- 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
- (1) **converge** of a series, (2) **converge** from different points The two rivers **converge** into one near this area.

medicinal

adj. of or relating to the treatment or cure of disease synonym: curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**The **medicinal** properties of this herb have been known to help with various ailments.

personalize

v. to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something

synonym: customize, individualize, tailor

(1) personalize social media profile, (2) personalize my



I like to **personalize** my phone case with a picture of my dog.

Session 2: Spelling

in e his privacy

chronic bro____is

1.

4.

			territory by military force for conquest and occupation	st
2.	par	_te size	adj. consisting of small particles, especia	•

airborne al en a substance, such as pollen, dust mites, 3. n. certain foods, or pet dander that can trigger an allergic reaction in susceptible individuals

air

an inflammation of the bronchial tubes, n. often resulting in cough, chest discomfort, and difficulty breathing, can be caused by viral or bacterial infections, environmental irritants, or other factors

to enter aggressively into another's

- ind____us worker adj. hardworking, diligent, and persistent in 5. effort
- wi e with excitement to move or cause to move up and down 6. or from side to side in short and quick movements
 - to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
 - a long, tube-like organ in the digestive n. system that is responsible for absorbing nutrients from food and eliminating waste products

co___ge from different points 7.

large in____ne 8.

ANSWERS: 1. invade, 2. particulate, 3. allergen, 4. bronchitis, 5. industrious, 6. wiggle, 7. converge, 8. intestine

9.	exe a sticky liquid	v.	to discharge waste matter, such as urine or feces, from the body or a cell or gland
10.	buck and d_e	n.	a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
11.	revize the industry	v.	to bring about a complete or radical change in something, often through the introduction of new methods or ideas
12.	Eba epidemic	n.	a highly contagious and often fatal viral disease that causes severe fever and internal bleeding, primarily occurring in remote areas of Central and West Africa
13.	inne wall	n.	a long, tube-like organ in the digestive system that is responsible for absorbing nutrients from food and eliminating waste products
14.	ine the aroma	ν.	to breathe in air or a different substance, such as smoke
15.	a cary tube	n.	a tube of small internal diameter; any of the minute tubes that carry blood
16.	directly intect with those systems	<i>v</i> .	to connect similar things
17.	aiy beacon	n.	the air passage from the nose and throat to the lungs; a designated route followed by airplanes flying from one airport to another
18.	exe rebellion	v.	to make someone feel suddenly enthusiastic or eager
Λ N I	SWEDS: 0 overete 10 dec 11 roy	alutian	izo 12 Ebolo 12 intentino 14 inhala

ANSWERS: 9. excrete, 10. doe, 11. revolutionize, 12. Ebola, 13. intestine, 14. inhale, 15. capillary, 16. interconnect, 17. airway, 18. excite

19. vize data	<i>v</i> .	to form a mental image or concept of something; to make something visible
20. primary cim	n.	a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris
21. seasonal alen	n.	a substance, such as pollen, dust mites, certain foods, or pet dander that can trigger an allergic reaction in susceptible individuals
22. nasal mus	n.	a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.
23. tre down my cheek	ν.	to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities
24. viral brois	n.	an inflammation of the bronchial tubes, often resulting in cough, chest discomfort, and difficulty breathing, can be caused by viral or bacterial infections, environmental irritants, or other factors
25. pulmonary fiis	n.	the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure

ANSWERS: 19. visualize, 20. cilium, 21. allergen, 22. mucus, 23. trickle, 24. bronchitis, 25. fibrosis

26.	rev	ize the technology	ν.	to bring about a complete or radical change in something, often through the introduction of new methods or ideas
27.	ovarian ct		n.	a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
28.	airway mu	S	n.	a slimy liquid produced inside the nose and other body parts for lubrication, protection, etc.
29.	bioa	I reaction	adj.	relating to the chemical processes and substances that occur within living organisms
30.	coge o	f a series	ν.	to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
31.	experienced	clan	n.	a practitioner, especially of medicine or psychology, who has direct contact with patients
32.	ine other	tissues	v.	to enter aggressively into another's territory by military force for conquest and occupation
33.	d_e rabbit		n.	a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
34.	ct remova	l	n.	a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment

ANSWERS: 26. revolutionize, 27. cyst, 28. mucus, 29. biochemical, 30. converge, 31. clinician, 32. invade, 33. doe, 34. cyst

35.	wie her lips	v.	to move or cause to move up and down or from side to side in short and quick movements
36.	ael container	n.	a substance enclosed under pressure and released as a fine spray, typically one used for medical purposes or cosmetic application
37.	mic numerous instruments	v.	to imitate someone's speech, movement, or behavior, especially to make others laugh
38.	Eba virus	n.	a highly contagious and often fatal viral disease that causes severe fever and internal bleeding, primarily occurring in remote areas of Central and West Africa
39.	rete the feeling of the 1920s	ν.	to make something that existed previously happen or appear to exist again
40.	debing virus	adj.	weakening or damaging; causing a loss of strength, energy, or success
41.	enf in water	<i>v</i> .	to swallow up; to surround and cover completely
42.	dispose of uned formalin solution	adj.	not given medical care or treatment; not subjected to chemical or physical treatment
43.	aiy blockage	n.	the air passage from the nose and throat to the lungs; a designated route followed by airplanes flying from one airport to another

ANSWERS: 35. wiggle, 36. aerosol, 37. mimic, 38. Ebola, 39. recreate, 40. debilitating, 41. engulf, 42. untreated, 43. airway

44.	enf the politician	v.	to swallow up; to surround and cover completely
45.	meal chemistry	adj.	of or relating to the treatment or cure of disease
46.	rete a single country	v.	to make something that existed previously happen or appear to exist again
47.	an uned disease	adj.	not given medical care or treatment; not subjected to chemical or physical treatment
48.	complex bioal	adj.	relating to the chemical processes and substances that occur within living organisms
49.	mic a human voice	v.	to imitate someone's speech, movement, or behavior, especially to make others laugh
50.	traditional meal	adj.	of or relating to the treatment or cure of disease
51.	tre from his eyes	v.	to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities
52.	indus student	adj.	hardworking, diligent, and persistent in effort
53.	fiis diagnosis	n.	the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ

ANSWERS: 44. engulf, 45. medicinal, 46. recreate, 47. untreated, 48. biochemical, 49. mimic, 50. medicinal, 51. trickle, 52. industrious, 53. fibrosis

failure

54.	peric contractions	adj.	relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract
55.	irle bowel syndrome	adj.	easily or frequently agitated, annoyed, or angered; prone to becoming tense or angry in response to minor stimuli or events
56.	ael can	n.	a substance enclosed under pressure and released as a fine spray, typically one used for medical purposes or cosmetic application
57.	perze social media profile	<i>v</i> .	to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something
58.	irle mood	adj.	easily or frequently agitated, annoyed, or angered; prone to becoming tense or angry in response to minor stimuli or events
59.	cim movement	n.	a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris
60.	peric pump	adj.	relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract

ANSWERS: 54. peristaltic, 55. irritable, 56. aerosol, 57. personalize, 58. irritable, 59. cilium, 60. peristaltic

01.	parte pollution	adj.	consisting of small particles, especially those that are suspended in a fluid or air
62.	from a clan's perspective	n.	a practitioner, especially of medicine or psychology, who has direct contact with patients
63.	exe waste products	ν.	to discharge waste matter, such as urine or feces, from the body or a cell or gland
64.	exe the crowd	<i>v</i> .	to make someone feel suddenly enthusiastic or eager
65.	perze my workspace	<i>v</i> .	to make something or an experience specific to an individual or group, often through adding personal details or tailoring it to their preferences or needs; to add personal details or information to something
66.	cary action	n.	a tube of small internal diameter; any of the minute tubes that carry blood
67.	ine the smoke	<i>v</i> .	to breathe in air or a different substance, such as smoke
68.	debing effect	adj.	weakening or damaging; causing a loss of strength, energy, or success
69.	human activities intect with the environment	<i>v</i> .	to connect similar things
70.	vize flying through space	<i>v</i> .	to form a mental image or concept of something; to make something visible

ANSWERS: 61. particulate, 62. clinician, 63. excrete, 64. excite, 65. personalize, 66. capillary, 67. inhale, 68. debilitating, 69. interconnect, 70. visualize

Session 3: Fill in the Blanks

1.	I have a terrible case of and	d need to see a doctor.
n.	an inflammation of the bronchial tubes, discomfort, and difficulty breathing, car infections, environmental irritants, or ot	be caused by viral or bacterial
2.	The outbreak in West Africa caus	ed widespread panic and fear.
n.	 a highly contagious and often fatal vira internal bleeding, primarily occurring in Africa 	
3.	Her hips as she walks.	
v.	to move or cause to move up and down movements	n or from side to side in short and quick
4.	The small is responsible for food.	absorbing most of the nutrients from
n.	 a long, tube-like organ in the digestive nutrients from food and eliminating was 	system that is responsible for absorbing ste products
5.	There are many vessels in the	ne gills of fish.
n.	a tube of small internal diameter; any o	f the minute tubes that carry blood
6.	The body excess salt through balance.	urine to maintain proper electrolyte
v.	to discharge waste matter, such as uring gland	ne or feces, from the body or a cell or
7.	The doctor diagnosed him with cardiac _ failure.	which put him at risk for heart
n.	associated with inflammation, scarring,	_



ANSWERS: 8. medicinal, 9. irritable, 10. clinicians, 11. personalize, 12. particulate, 13. aerosol, 14. mucus

15.	The two rivers into one near this area.
<i>v</i> .	to move or draw together at a specific location; (of lines) to move towards the same point where they join or meet
16.	Hunters use a whistle that makes the sound to lure stags.
n.	a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
17.	I have no intention to your privacy.
<i>v</i> .	to enter aggressively into another's territory by military force for conquest and occupation
18.	Heat stroke is the result of heat exhaustion.
adj	not given medical care or treatment; not subjected to chemical or physical treatment
19.	Water was beginning to into the basement after the heavy rain.
<i>v</i> .	to flow or drip slowly and in small amounts; to happen or occur gradually or in small quantities
	Our system can now with other databases. to connect similar things
	His illness made it difficult for him to leave the house.
adj	. weakening or damaging; causing a loss of strength, energy, or success
22.	research is essential to understanding the complex chemical reactions in living organisms.
adj	relating to the chemical processes and substances that occur within living organisms
	SWERS: 15. converge, 16. doe, 17. invade, 18. untreated, 19. trickle, 20. erconnect, 21. debilitating, 22. Biochemical

23.	He deeply, trying to calm down.
ν.	to breathe in air or a different substance, such as smoke
24.	He was known to be very and would often work late into the night.
adj	hardworking, diligent, and persistent in effort
25.	Pollen is a common that triggers hay fever in many people.
n.	a substance, such as pollen, dust mites, certain foods, or pet dander that can trigger an allergic reaction in susceptible individuals
26.	The news of her promotion her.
ν.	to make someone feel suddenly enthusiastic or eager
27.	The intestines' movement helps propel food through the digestive system.
adj	relating to the rhythmic contraction and relaxation of muscles that create wave-like movements, particularly referring to the action of peristalsis, which is the movement of food through the digestive tract
28.	The fire quickly the entire building.
ν.	to swallow up; to surround and cover completely
29.	The invention of the smartphone the way we communicate with each other.
<i>v</i> .	to bring about a complete or radical change in something, often through the introduction of new methods or ideas
30.	She tried to the layout of the new house in her mind.
v.	to form a mental image or concept of something; to make something visible
	SWERS: 23. inhaled, 24. industrious, 25. allergen, 26. excited, 27. peristaltic, 28. gulfed, 29. revolutionized, 30. visualize

31.	When performing lifesaving, the first step is to secure the
n.	the air passage from the nose and throat to the lungs; a designated route followed by airplanes flying from one airport to another
32.	The microscopic analysis revealed a presence on the single-celled organism's surface.
n.	a microscopic, hair-like cellular projection that is found on the surface of many cells in the body, helping them to move or trap debris
33.	He is very popular at school because he can all the teachers' accents.
<i>v</i> .	to imitate someone's speech, movement, or behavior, especially to make others laugh
34.	The patient was sent for an X-ray to determine the cause of the in her abdomen.
n.	a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
35.	She the atmosphere of the pre-war age with her stage setting.
v.	to make something that existed previously happen or appear to exist again
AN	SWERS: 31. airway, 32. cilium's, 33. mimic, 34. cyst, 35. recreated