# **Englist.me**

## Vocabulary Builder Reference from...

Daniel Kraft: Medicine's future? There's an app for

that | TED Talk

https://www.ted.com/talks/daniel\_kraft\_medicine\_s\_fu

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# Advanced Words Only

#### **IMPORTANT**

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### **Session 1: Word List**

#### confer

v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

synonym: consult, meet, discuss

(1) **confer** degree, (2) **confer** honor

The leaders of the two countries met to **confer** on the issue.

### mitochondria

- n. (singular: mitochondrion) an organelle (= a specialized part of a cell) found in large numbers in most cells that produce energy for the cell by breaking down food
- (1) a membrane of a **mitochondria**, (2) healthy **mitochondria**

**Mitochondria** DNA is used to trace human lineage and migration footprints.

### haplotype

n. a specific combination of genetic variations or alleles that are inherited together on the same chromosome from a single parent, which is used to analyze genetic patterns and understand the inheritance of specific traits or diseases

synonym: allele, gene, genetic variant

(1) specific haplotype, (2) genetic haplotype

The **haplotype** analysis provided valuable insights into the evolutionary history of the species.



#### bioinformatics

n. the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

synonym: computational biology, genomics

- (1) **bioinformatics** research, (2) **bioinformatics** tools **Bioinformatics** algorithms are essential for identifying and analyzing patterns in biological data.
- a flowering plant with large, showy, trumpet-shaped flowers, typically symbolizing purity, innocence, and beauty
- (1) **lily** perfume, (2) water **lily**The beautiful **lily** garden in the park was a sight to behold.

#### innovate

- v. to introduce new methods, ideas, or products synonym: bring in, introduce, found
- (1) **innovate** a new method, (2) **innovate** the quality of his life

Companies developing self-driving cars consistently **innovate** the emerging technologies.

#### incentivize

v. to make someone want to do in a particular way by offering them a reward

synonym: encourage, motivate

(1) **incentivize** carpooling, (2) **incentivize** the right behavior Governments **incentivize** their citizens to buy eco-friendly products through subsidies.

### improvisation

- n. the act of making something up on the spot or creating or performing something without preparationsynonym: spontaneity, ad-lib, extemporization
- (1) **improvisation** on stage, (2) jazz **improvisation** He created a beautiful piece of music using only **improvisation**.

#### smartphone

- a mobile phone that functions as a computer and connects to the Internet
- (1) **smartphone** app developer, (2) **smartphone** addict Internet traffic volumes have increased significantly with the advent of **smartphones**.

#### 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.

### institutionalize

v. to establish or make something a part of an institution (= a place such as a university, hospital, etc.)

synonym: formalize, establish, regularize

(1) **institutionalize** a system, (2) **institutionalize** customary laws

The new policy aims to **institutionalize** the use of renewable energy sources.

#### nanoscale

- adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
- (1) **nanoscale** device, (2) things at the **nanoscale**This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

#### unmet

adj. describing a need, goal, or expectation that has not been satisfied or fulfilled

synonym: unsatisfied, unfulfilled, unmatched

(1) unmet demand, (2) unmet needs

The **unmet** expectations of the customers led to a decrease in sales.

#### app

 n. (abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC

synonym: application, software

(1) killer app, (2) cannot log in to the app

The discovery of a critical bug caused the company to delay the **app's** release.

#### surpass

v. to be or do better than someone or something; to excel or go beyond the limits or standards of something

synonym: excel, outdo, outperform

(1) **surpass** imagination, (2) **surpass** \$20 billion in sales The athlete's record-breaking performance **surpassed** all expectations.

#### curator

 a person whose job is to manage the objects or artworks in a museum, art gallery, etc.

synonym: conservator, custodian, administrator

(1) curator of a library, (2) interim curator

The museum **curator** conserved the ancient manuscripts.

#### reconstruct

v. to build or form something again that has been damaged or destroyed

synonym: rebuild, revamp, reorganize

(1) **reconstruct** an image, (2) **reconstruct** the original text They've decided to **reconstruct** a ruined castle.

### reengineer

v. to redesign or restructure something such as a machine, system, organization, etc.

*synonym*: redesign, remodel, revamp

(1) **reengineer** work processes, (2) **reengineer** the organizational structure

As technology evolves, we need to **reengineer** our work styles.

#### MRI

- n. (abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
- (1) MRI brain image, (2) cardiac MRI

The **MRI** machine uses powerful magnets to produce detailed images of the inside of the body.

### psychoactive

 adj. producing an effect on mental processes, such as mood, perception, or behavior; capable of affecting the mind or emotions

synonym: mind-altering, mind-bending, hallucinogenic

(1) **psychoactive** medication, (2) **psychoactive** effects **Psychoactive** substances can seriously affect the brain and must be used cautiously.

### colonoscopy

- n. a medical procedure in which a flexible tube with a camera on its end is inserted into the rectum to examine the colon for potential abnormalities or diseases
   synonym: colon examination, bowel scope, colonography
- (1) **colonoscopy** screening, (2) virtual **colonoscopy** He had to undergo a **colonoscopy** as part of his routine medical check-up.

### radiology

- n. the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
- synonym: medical imaging, radiography, radioscopy
- (1) interventional **radiology**, (2) diagnostic **radiology**The patient underwent a **radiology** scan to diagnose their medical condition.

### augment

v. to increase the size, extent, quantity, etc. of something by adding something to it

synonym: boost, increase, expand

(1) **augment** the reality, (2) **augment** immunity Economic factors and monetary policy **augmented** inflation.

#### lesion

 a damaged or abnormal area of tissue in the body, usually caused by injury or disease

synonym: injury, wound, damage

(1) muscle **lesion**, (2) brain **lesion** 

The doctor examined the **lesion** on the patient's skin to determine if it was cancerous.

#### 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.

### stethoscope

 a medical instrument consisting of a flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly heart and lung sounds

synonym: medical instrument, auscultation device

(1) medical **stethoscope**, (2) electronic **stethoscope**The **stethoscope** examination helped the doctor detect the irregular heartbeat of the patient.

### supplant

v. to replace or take the place of something or someone, often by force or through strategic maneuvering; to make obsolete or obsolete by introducing a superior or more advanced alternative

synonym: replace, supersede, displace

(1) **supplant** traditional methods, (2) **supplant** current technology

The young startup aims to **supplant** the established players in the industry through innovation.

### crowdsourcing

- n. the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet
- (1) **crowdsourcing** apps, (2) **crowdsourcing** in climate policy

The company used this **crowdsourcing** platform to gather

ideas for its next product.

### jeopardy

- n. the state of being in danger or at risk of harm or losssynonym: danger, risk, peril
- (1) put his life in **jeopardy**, (2) tax in **jeopardy**The project is in **jeopardy** of being canceled due to a lack of funding.

#### laceration

 a deep cut or tear in flesh or skin, often caused by a sharp object or a traumatic injury

synonym: tear, cut, gash

(1) laceration to skin, (2) multiple lacerations

The deep **laceration** on my arm required several stitches to close.

### hematology

n. the branch of medical science deals with the study of blood and its components, including blood diseases and disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone marrow and lymphatic system

synonym: study of blood, blood science, hemopathology

- (1) **hematology** finding, (2) **hematology** department The medical lab specializes in **hematology** testing and analysis.
- n. a short, high sound made by a small bird; a message sent using Twitter, the social media application
- (1) a chick's **tweet**, (2) his latest **tweets** We could hear the **tweet** of baby birds.

*synonym*: peep, chirp, post (on Twitter)

n. a band or strip of material, usually worn around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand, typically to the head or ear

synonym: bracelet, handcuff, shackle

### tweet

#### cuff

(1) cuff bracelet, (2) soft cuff

The doctor used a blood pressure **cuff** to measure my vitals.

gamut

n. the complete range or scope of something; the entire spectrum or extent of a particular quality, emotion, or situation

synonym: range, spectrum, array

(1) musical **gamut**, (2) **gamut** of jobs

The actress's performance ran the **gamut** of emotions, from anger to joy to sorrow.

kludge

 a piece of hardware, software, or system that is poorly designed or constructed and often involves a makeshift or temporary solution to a problem

synonym: hack, workaround, makeshift solution

(1) **kludge** solution, (2) **kludge** code

The old printer was connected to the computer with a **kludge** of cables and adapters.

quantify

- v. to express or measure something in numerical terms synonym: measure, express, determine
- (1) **quantify** the results, (2) **quantify** blood flow He tried to **quantify** the amount of product that was needed to complete the job.

robotic

adj. of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots

synonym: automated, mechanical, laborsaving

(1) robotic arm, (2) robotic guide operation

The surgeon removed the tumor using **robotic** video assistance.

scar

a mark that remains on the skin after a wound has healed

synonym: blemish, imperfection, blotch

(1) burn scar, (2) carry a scar

Even after the wound has healed, a **scar** remains.

### endoscope

- a medical instrument that consists of a long, flexible tube with a light and a camera on end, used to examine the interior of a body cavity or organ visually
- (1) medical **endoscope**, (2) flexible **endoscope**The doctor used a diagnostic **endoscope** to examine the patient's stomach during the medical procedure.

### gallbladder

 a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion

*synonym*: cholecyst

(1) **gallbladder** surgery, (2) **gallbladder** disease Eating a fatty meal can trigger **gallbladder** pain in some people.

mediate

 to try to bring about an agreement or understanding between people who are in conflict

synonym: arbitrate, reconcile, intervene

(1) **mediate** allergic reaction, (2) **mediate** a negotiation The teacher had to **mediate** a disagreement between two students over a stolen pencil.

### paraplegia

 a form of paralysis that affects all or part of the lower body, typically caused by injury to the spinal cord or nervous system

synonym: spinal cord injury, paralysis

(1) **paraplegia** treatment, (2) traumatic **paraplegia**After his accident, he was left with **paraplegia** and had to use a wheelchair.

### quadriplegia

- paralysis of all four limbs and the torso, usually resulting from injury to the spinal cord in the neck region
- (1) **quadriplegia** patients, (2) **quadriplegia** care After the accident, he had **quadriplegia** and could not move his arms or legs.

#### bionic

- adj. relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original
- (1) bionic exoskeleton, (2) bionic technology

The soldier was fitted with a **bionic** arm after losing him in combat.

### dexterity

 skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems

synonym: skillfulness, agility, expertise

(1) dexterity with the pen, (2) manual dexterity

The surgeon's **dexterity** was impressive during the delicate surgery.

#### exoskeleton

 a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab

synonym: chitin, exocuticle, carapace

(1) exoskeleton suit, (2) robotic exoskeleton

The **exoskeleton** of the crab protects it from predators and environmental changes.

### prosthetic

- adj. of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
- (1) have **prosthetic** arms, (2) **prosthetic** limbs New **prosthetic** joints are less prone to metal poisoning.

### pacemaker

 a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others

synonym: heartbeat regulator, pacer, pacesetter

(1) implanted **pacemaker**, (2) **pacemaker** battery Some people with **pacemakers** may need to avoid certain activities or sources of electromagnetic interference.

### cardiologist

a medical doctor who specializes in the study and treatment of the heart and the circulatory system synonym: heart doctor, heart specialist, cardiac specialist

(1) cardiologist appointment, (2) skilled cardiologist My grandfather is seeing a **cardiologist** to monitor his heart condition.

### telemetry

the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control purposes

synonym: data transmission, remote measurement

- (1) telemetry technology, (2) telemetry system The satellite sends **telemetry** data back to Earth to help scientists study the atmosphere.
- the innermost light-sensitive membrane covering the n. back wall of the eyeball
- (1) retinal cells, (2) retina scanner Damage to the **retina** may play a role in the development of glaucoma.

### eyeball

- the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
- (1) eyeball motion, (2) redness of the eyeball Increased eyeball pressure leads to the development of glaucoma.

#### Bluetooth

- a short-range wireless communication technology that allows electronic devices to connect and exchange data wirelessly over short distances, commonly used for connecting devices such as smartphones, headphones, and speakers
- (1) Bluetooth connection, (2) Bluetooth-enabled device I need a **Bluetooth** headset for my conference calls.

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### retina

#### microscopic

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

synonym: infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis Inspectors noticed **microscopic** cracks in the submarine's hull.

#### quake

- v. to shake or vibrate violently and for a short time synonym: shake, trembler, tremor
- (1) **quake** in his boots, (2) **quake** with cold The earth began to **quake**, and he knew he had to leave the building immediately.

#### underserved

- adj. inadequately or insufficiently provided with help, products, or services
- (1) **underserved** market, (2) traditionally **underserved**This area is medically **underserved**.

#### clot

 a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force

*synonym*: clump, coagulation, thrombus

(1) blood clot, (2) clot prevention

The **clot** in the blood vessel required immediate medical attention.

#### blockbuster

 a movie, book, or other product that is extremely successful and popular, especially one that makes much money

synonym: hit, success, smash

(1) **blockbuster** movie, (2) international **blockbuster** The new action movie is expected to be a **blockbuster** hit.

macula

 a small, oval-shaped area near the center of the retina of the eye, responsible for providing high-resolution vision

synonym: center of the retina, spot, eyespot

### (1) macula lutea, (2) damage to the macula

There are several treatment options available for patients with **macula-related** disorders.

### degenerate

v. (of a person, animal, or plant) to become worse in health or physical condition

synonym: deteriorate, decline, decay

(1) **degenerate** into a disagreement, (2) **degenerate** into recession

The once-thriving city has **degenerated** into a crime-ridden slum.

#### decode

 to convert something, such as a message or piece of information, from a specific form into one that you can understand

synonym: decipher, translate, interpret

(1) **decode** a message, (2) ability to **decode** the differences The software could **decode** the encrypted data and reveal the hidden information.

### pharmacogenomics

- n. the study of how genes affect an individual's response to drugs and other treatments, particularly in the context of personalized medicine
- (1) pharmacogenomics technology,
- (2) pharmacogenomics testing

The **pharmacogenomics** industry is growing rapidly due to its immense potential.

#### modulate

v. to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something

synonym: regulate, inflect, adjust

(1) **modulate** the function, (2) **modulate** from one key to another

These chemicals **modulate** the effect of metabolism.

#### proteome

- n. the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications
- (1) bacterial **proteome**, (2) **proteome** database Scientists are studying the human **proteome** to understand better how proteins work in the body.

#### biomarker

 a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention

synonym: indicator, measure, signature

(1) diabetes **biomarker**, (2) **biomarker** discovery

The **biomarker** test showed that the patient was responding well to the treatment.

### oncology

- n. the branch of medicine that deals with the study and treatment of tumors, especially malignanciessynonym: cancer treatment, study of tumors
- (1) **oncology** center, (2) modern **oncology** treatment The pharmaceutical company unveiled its latest breakthrough drug for the **oncology** market.

### relapse

n. the fact of becoming ill or starting to misbehave again after making an improvement

synonym: degeneration, deterioration, retrogression

(1) biochemical relapse,(2) relapse preventionHe had a relapse because he was working through the night.

#### whack

- v. to hit someone or something hard or noisily synonym: hit, strike, bash
- (1) **whack** him with a stick, (2) **whack** up the volume He **whacked** the ball out of the park with his home run.

### embryonic

adj. of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development synonym: embryonal

(1) **embryonic** stem cells, (2) **embryonic** development The project is still in its **embryonic** stage.

#### puncture

 a small hole or wound made by piercing, such as with a needle, nail, or pointed object

synonym: piercing, prick, hole

(1) bicycle puncture, (2) needle puncture

The tire had a **puncture** and needed to be replaced.

#### 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.

### reprogram

- v. to modify or recreate a program synonym: recreate, modify, revamp
- (1) **reprogram** a device, (2) **reprogram** a database He **reprogrammed** the computer's operating system to remove the safeguard.

### pluripotent

adj. describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications

synonym: versatile, all-purpose, adaptable

(1) **pluripotent** embryonic cells, (2) **pluripotent** gene expression

**Pluripotent** stem cells can differentiate into any cell in the body.

### myocyte

*n.* a type of muscle cell found in muscle tissue, responsible for contraction and movement

synonym: muscle cell, cardiac cell, heart cell

(1) cardiac **myocyte**, (2) skeletal **myocyte** 

The cardiologist analyzed the **myocyte** cells in the patient's heart tissue.

#### decentralize

v. to move the power, control, or authority of an organization, government, or system from a single place to several smaller ones

synonym: deconcentrate, disperse, distribute

(1) **decentralize** authority, (2) **decentralize** organizational structure

We need to **decentralize** our data to recover quickly from a disaster.

### empower

- v. to give someone the power or authority to do something synonym: 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.

# **Session 2: Spelling**

8.

exo\_\_\_\_on suit

1.	unt needs	adj.	describing a need, goal, or expectation that has not been satisfied or fulfilled
2.	biochemical ree	n.	the fact of becoming ill or starting to misbehave again after making an improvement
3.	bloer movie	n.	a movie, book, or other product that is extremely successful and popular, especially one that makes much money
4.	specific hape	n.	a specific combination of genetic variations or alleles that are inherited together on the same chromosome from a single parent, which is used to analyze genetic patterns and understand the inheritance of specific traits or diseases
5.	cf bracelet	n.	a band or strip of material, usually worn around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand, typically to the head or ear
6.	ongy center	n.	the branch of medicine that deals with the study and treatment of tumors, especially malignancies
7.	mee allergic reaction	v.	to try to bring about an agreement or understanding between people who are in conflict

ANSWERS: 1. unmet, 2. relapse, 3. blockbuster, 4. haplotype, 5. cuff, 6. oncology, 7. mediate, 8. exoskeleton

a hard, external protective covering or

framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab

9.	quagia care	n.	paralysis of all four limbs and the torso, usually resulting from injury to the spinal cord in the neck region
10.	smane app developer	n.	a mobile phone that functions as a computer and connects to the Internet
11.	ree prevention	n.	the fact of becoming ill or starting to misbehave again after making an improvement
12.	decize organizational structure	ν.	to move the power, control, or authority of an organization, government, or system from a single place to several smaller ones
13.	tery technology	n.	the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control purposes
14.	tery system	n.	the process of collecting and transmitting data from remote or inaccessible sources using wireless or other communication means, usually for monitoring or control purposes
15.	flexible enpe	n.	a medical instrument that consists of a long, flexible tube with a light and a camera on end, used to examine the interior of a body cavity or organ visually
16.	paria treatment	n.	a form of paralysis that affects all or part of the lower body, typically caused by injury to the spinal cord or nervous system

ANSWERS: 9. quadriplegia, 10. smartphone, 11. relapse, 12. decentralize, 13. telemetry, 14. telemetry, 15. endoscope, 16. paraplegia

17.	emr the secretary to do the same	<i>v</i> .	to give someone the power or authority to do something
18.	dety with the pen	n.	skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems
19.	bic technology	adj.	relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original
20.	implanted paer	n.	a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
21.	insize a system	<i>v</i> .	to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
22.	redness of the eyI	n.	the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
23.	diagnostic ragy	n.	the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
24.	micic inquiry	adj.	tiny; exceedingly precise and detail-oriented; of or used in microscopy

ANSWERS: 17. empower, 18. dexterity, 19. bionic, 20. pacemaker, 21. institutionalize, 22. eyeball, 23. radiology, 24. microscopic

25.	croing in climate policy	n.	the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet
26.	killer a_p	n.	(abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
27.	inte a new method	<i>v</i> .	to introduce new methods, ideas, or products
28.	recct an image	<i>v</i> .	to build or form something again that has been damaged or destroyed
29.	have proic arms	adj.	of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
30.	sus imagination	ν.	to be or do better than someone or something; to excel or go beyond the limits or standards of something
31.	whk up the volume	<i>v</i> .	to hit someone or something hard or noisily
32.	aut immunity	v.	to increase the size, extent, quantity, etc. of something by adding something to it
33.	phaics technology	n.	the study of how genes affect an individual's response to drugs and other treatments, particularly in the context of personalized medicine
34.	impion on stage	n.	the act of making something up on the spot or creating or performing something without preparation

ANSWERS: 25. crowdsourcing, 26. app, 27. innovate, 28. reconstruct, 29. prosthetic, 30. surpass, 31. whack, 32. augment, 33. pharmacogenomics, 34. improvisation

35.	needle pure	n.	a small hole or wound made by piercing, such as with a needle, nail, or pointed object
36.	inte the quality of his life	<i>v</i> .	to introduce new methods, ideas, or products
37.	gat of jobs	n.	the complete range or scope of something; the entire spectrum or extent of a particular quality, emotion, or situation
38.	real cells	n.	the innermost light-sensitive membrane covering the back wall of the eyeball
39.	qufy blood flow	<i>v</i> .	to express or measure something in numerical terms
40.	musical gat	n.	the complete range or scope of something; the entire spectrum or extent of a particular quality, emotion, or situation
41.	traditional meal	adj.	of or relating to the treatment or cure of disease
42.	Blth-enabled device	n.	a short-range wireless communication technology that allows electronic devices to connect and exchange data wirelessly over short distances, commonly used for connecting devices such as smartphones, headphones, and speakers
43.	decize authority	ν.	to move the power, control, or authority of an organization, government, or system from a single place to several smaller ones

ANSWERS: 35. puncture, 36. innovate, 37. gamut, 38. retina, 39. quantify, 40. gamut, 41. medicinal, 42. Bluetooth, 43. decentralize

 n. the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries

large numbers in most cells that

down food

produce energy for the cell by breaking

adj. of or relating to the treatment or cure of disease

ANSWERS: 44. puncture, 45. macula, 46. mediate, 47. bioinformatics, 48. scar, 49. mitochondria, 50. radiology, 51. medicinal

50. interventional ra gy

51. me al chemistry

52.	his latest twts	n.	a short, high sound made by a small bird; a message sent using Twitter, the social media application
53.	multiple lacons	n.	a deep cut or tear in flesh or skin, often caused by a sharp object or a traumatic injury
54.	electronic stepe	n.	a medical instrument consisting of a flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly heart and lung sounds
55.	medical enpe	n.	a medical instrument that consists of a long, flexible tube with a light and a camera on end, used to examine the interior of a body cavity or organ visually
56.	cannot log in to the a_p	n.	(abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
57.	cur of a library	n.	a person whose job is to manage the objects or artworks in a museum, art gallery, etc.
58.	quagia patients	n.	paralysis of all four limbs and the torso, usually resulting from injury to the spinal cord in the neck region
59.	cor degree	ν.	to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
60.	bioics research	n.	the interdisciplinary field that combines biology and computer science to analyze, interpret, and manage biological information and data, particularly in the realm of genetics, genomics, and other related areas

ANSWERS: 52. tweet, 53. laceration, 54. stethoscope, 55. endoscope, 56. app, 57. curator, 58. quadriplegia, 59. confer, 60. bioinformatics

61.	que in his boots	<i>v</i> .	short time
62.	virtual colpy	n.	a medical procedure in which a flexible tube with a camera on its end is inserted into the rectum to examine the colon for potential abnormalities or diseases
63.	rea scanner	n.	the innermost light-sensitive membrane covering the back wall of the eyeball
64.	kle code	n.	a piece of hardware, software, or system that is poorly designed or constructed and often involves a makeshift or temporary solution to a problem
65.	incze the right behavior	<i>v</i> .	to make someone want to do in a particular way by offering them a reward
66.	roc guide operation	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
67.	emr my life	v.	to give someone the power or authority to do something
68.	hemgy department	n.	the branch of medical science deals with the study of blood and its components, including blood diseases and disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone

ANSWERS: 61. quake, 62. colonoscopy, 63. retina, 64. kludge, 65. incentivize, 66. robotic, 67. empower, 68. hematology

marrow and lymphatic system

69.	bier discovery	n.	a characteristic that is objectively measured and evaluated as an indicator of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention
70.	mote from one key to another	v.	to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time amount, degree, or rate of something
71.	genetic hape	n.	a specific combination of genetic variations or alleles that are inherited together on the same chromosome from a single parent, which is used to analyze genetic patterns and understand the inheritance of specific traits or diseases
72.	things at the nale	adj.	on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
73.	a chick's twt	n.	a short, high sound made by a small bird; a message sent using Twitter, the social media application
74.	insize customary laws	v.	to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
75.	recct the original text	v.	to build or form something again that has been damaged or destroyed
76.	jazz impion	n.	the act of making something up on the spot or creating or performing something without preparation

ANSWERS: 69. biomarker, 70. modulate, 71. haplotype, 72. nanoscale, 73. tweet, 74. institutionalize, 75. reconstruct, 76. improvisation

77.	galer disease	n.	a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion
78.	cardiac mye	n.	a type of muscle cell found in muscle tissue, responsible for contraction and movement
79.	a membrane of a mitria	n.	(singular: mitochondrion) an organelle (= a specialized part of a cell) found in large numbers in most cells that produce energy for the cell by breaking down food
80.	bioal assay	adj.	relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
81.	unded market	adj.	inadequately or insufficiently provided with help, products, or services
82.	burn sr	n.	a mark that remains on the skin after a wound has healed
83.	prme database	n.	the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications
84.	reeer the organizational structure	<i>v</i> .	to redesign or restructure something such as a machine, system, organization, etc.
85.	reeer work processes	<i>v</i> .	to redesign or restructure something such as a machine, system, organization, etc.

ANSWERS: 77. gallbladder, 78. myocyte, 79. mitochondria, 80. biomedical, 81. underserved, 82. scar, 83. proteome, 84. reengineer, 85. reengineer

86.	emic development	adj.	of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
87.	international bloer	n.	a movie, book, or other product that is extremely successful and popular, especially one that makes much money
88.	psyive medication	adj.	producing an effect on mental processes, such as mood, perception, or behavior; capable of affecting the mind or emotions
89.	dee a message	ν.	to convert something, such as a message or piece of information, from a specific form into one that you can understand
90.	cardiac M_I	n.	(abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
91.	sus \$20 billion in sales	<i>v</i> .	to be or do better than someone or something; to excel or go beyond the limits or standards of something
92.	paer battery	n.	a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
93.	phaics testing	n.	the study of how genes affect an individual's response to drugs and other treatments, particularly in the context of personalized medicine

ANSWERS: 86. embryonic, 87. blockbuster, 88. psychoactive, 89. decode, 90. MRI, 91. surpass, 92. pacemaker, 93. pharmacogenomics

94.	psyive effects	adj.	producing an effect on mental processes, such as mood, perception, or behavior; capable of affecting the mind or emotions
95.	roc arm	adj.	of or relating to mechanical robots; (robotics) the interdisciplinary branch of computer science and engineering with the practical use of robots
96.	blood ct	n.	a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
97.	plunt embryonic cells	adj.	describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
98.	skeletal mye	n.	a type of muscle cell found in muscle tissue, responsible for contraction and movement
99.	ability to dee the differences	v.	to convert something, such as a message or piece of information, from a specific form into one that you can understand
100	o. galer surgery	n.	a small, pear-shaped organ located near the liver that stores and releases bile into the small intestine to aid in digestion
101	. ream a device	<i>v</i> .	to modify or recreate a program
AN	SWERS: 94. psychoactive, 95. robotic,	96. d	clot, 97. pluripotent, 98. myocyte, 99.

ANSWERS: 94. psychoactive, 95. robotic, 96. clot, 97. pluripotent, 98. myocyte, 99 decode, 100. gallbladder, 101. reprogram

a damaged or abnormal area of tissue in the body, usually caused by injury or disease  103. kle solution  n. a piece of hardware, software, or system that is poorly designed or constructed and often involves a makeshift or temporary solution to a problem  104. carist appointment  n. a medical doctor who specializes in the study and treatment of the heart and the circulatory system  105. qu_e with cold  n. the state of being in danger or at risk of harm or loss  107. qufy the results  n. a short-range wireless communication technology that allows electronic devices to connect and exchange data wirelessly over short distances, commonly used for connecting devices such as smartphones, headphones, and speakers  109. medical stepe  n. a medical instrument consisting of a flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly heart and lung sounds  110. soft c_f  n. a band or strip of material, usually worn around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand, typically to the head or ear			
system that is poorly designed or constructed and often involves a makeshift or temporary solution to a problem  104. carist appointment  105. qu_e with cold  106. put his life in jedy  107. qufy the results  108. Blth connection  109. medical stepe  109. medical stepe  109. medical stepe  109. medical stepe  109. system that is poorly designed or constitung a makeshift or temporary solution to a problem  109. system that is poorly designed or constructed and often involves a makeshift or temporary solution to a problem  109. medical stepe  10	102. brain len	n.	in the body, usually caused by injury or
study and treatment of the heart and the circulatory system  105. que with cold  105. que with cold  106. put his life in jedy  107. qufy the results  108. Blth connection  108. Blth connection  109. medical stepe  109. medical stepe  109. medical stepe  109. medical stepe  109. soft c_f  100. soft c_f  100	103. kle solution	n.	system that is poorly designed or constructed and often involves a makeshift or temporary solution to a
short time  106. put his life in jedy  n. the state of being in danger or at risk of harm or loss  107. qufy the results  v. to express or measure something in numerical terms  108. Blth connection  n. a short-range wireless communication technology that allows electronic devices to connect and exchange data wirelessly over short distances, commonly used for connecting devices such as smartphones, headphones, and speakers  109. medical stepe  n. a medical instrument consisting of a flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly heart and lung sounds  110. soft cf  n. a band or strip of material, usually worn around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand,	104. carist appointment	n.	study and treatment of the heart and the
harm or loss  107. qufy the results  108. Blth connection  108. Blth connection  109. medical stepe  109. medical	105. que with cold	v.	
numerical terms  108. Blth connection  n. a short-range wireless communication technology that allows electronic devices to connect and exchange data wirelessly over short distances, commonly used for connecting devices such as smartphones, headphones, and speakers  109. medical stepe  n. a medical instrument consisting of a flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly heart and lung sounds  110. soft cf  n. a band or strip of material, usually worn around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand,	106. put his life in jedy	n.	
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flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly heart and lung sounds  110. soft cf  n. a band or strip of material, usually worn around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand,	108. Blth connection	n.	technology that allows electronic devices to connect and exchange data wirelessly over short distances, commonly used for connecting devices such as smartphones, headphones, and
around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand,	109. medical stepe	n.	flexible tube with a chest piece at one end, used by healthcare professionals to listen to internal sounds, particularly
	110. soft cf	n.	around the wrist or ankle, often used to secure or fasten something in place; a blow or hit delivered with an open hand,

ANSWERS: 102. lesion, 103. kludge, 104. cardiologist, 105. quake, 106. jeopardy, 107. quantify, 108. Bluetooth, 109. stethoscope, 110. cuff

111. tax in jedy	n.	the state of being in danger or at risk of harm or loss
112. M_I brain image	n.	(abbreviation for magnetic resonance imaging) a medical imaging technique that uses a strong magnetic field and radio waves to produce detailed images of the inside of the body
113. nale device	adj.	on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
114. smane addict	n.	a mobile phone that functions as a computer and connects to the Internet
115. water Iy	n.	a flowering plant with large, showy, trumpet-shaped flowers, typically symbolizing purity, innocence, and beauty
116. sunt traditional methods	ν.	to replace or take the place of something or someone, often by force or through strategic maneuvering; to make obsolete or obsolete by introducing a superior or more advanced alternative
117. ream a database	<i>v</i> .	to modify or recreate a program
118. cor honor	ν.	to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
119. diabetes bier	n.	a characteristic that is objectively measured and evaluated as an indicato of normal biological processes, pathogenic processes, or pharmacologic responses to a therapeutic intervention

ANSWERS: 111. jeopardy, 112. MRI, 113. nanoscale, 114. smartphone, 115. lily, 116. supplant, 117. reprogram, 118. confer, 119. biomarker

120. interim cur	n.	a person whose job is to manage the objects or artworks in a museum, art gallery, etc.
121. maa lutea	n.	a small, oval-shaped area near the center of the retina of the eye, responsible for providing high-resolution vision
122. muscle len	n.	a damaged or abnormal area of tissue in the body, usually caused by injury or disease
123. traditionally unded	adj.	inadequately or insufficiently provided with help, products, or services
124. incze carpooling	ν.	to make someone want to do in a particular way by offering them a reward
125. degte into recession	<i>v</i> .	(of a person, animal, or plant) to become worse in health or physical condition
126. proic limbs	adj.	of or relating to an artificial part of the body, such as a limb, a heart, or a breast implant
127. plunt gene expression	adj.	describing cells that have the potential to differentiate into any specialized cell in the body, often used in the context of stem cell research and applications
128. hemgy finding	n.	the branch of medical science deals with the study of blood and its components, including blood diseases and disorders such as anemia, leukemia, and blood clotting disorders. It also encompasses the study of the blood-forming organs such as the bone

ANSWERS: 120. curator, 121. macula, 122. lesion, 123. underserved, 124. incentivize, 125. degenerate, 126. prosthetic, 127. pluripotent, 128. hematology

marrow and lymphatic system

129. eyl motion	n.	the round part of the eye of a vertebrate that is usually inside the head and, therefore, cannot be seen
130. lacon to skin	n.	a deep cut or tear in flesh or skin, often caused by a sharp object or a traumatic injury
131. skilled carist	n.	a medical doctor who specializes in the study and treatment of the heart and the circulatory system
132. emic stem cells	adj.	of or relating to an embryo (= an animal organism in the early stages of growth); in an early stage of development
133. aneia for surgery	n.	a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes
134. ct prevention	n.	a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
135. bacterial prme	n.	the entire complement of proteins that can be expressed by a genome, cell, tissue, or organism, including all of its functional forms and modifications
136. aut the reality	ν.	to increase the size, extent, quantity, etc. of something by adding something to it
137. degte into a disagreement	v.	(of a person, animal, or plant) to become worse in health or physical condition

ANSWERS: 129. eyeball, 130. laceration, 131. cardiologist, 132. embryonic, 133. anesthesia, 134. clot, 135. proteome, 136. augment, 137. degenerate

138. colpy screening	n.	a medical procedure in which a flexible tube with a camera on its end is inserted into the rectum to examine the colon for potential abnormalities or diseases
139. sunt current technology	ν.	to replace or take the place of something or someone, often by force or through strategic maneuvering; to make obsolete or obsolete by introducing a superior or more advanced alternative
140. ly perfume	n.	a flowering plant with large, showy, trumpet-shaped flowers, typically symbolizing purity, innocence, and beauty
141. robotic exoon	n.	a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab
142. cutting-edge bioal	adj.	relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
143. croing apps	n.	the practice of obtaining needed services, ideas, or content by enlisting the services of a large number of people, either paid or unpaid, typically via the internet
144. local aneia	n.	a state of controlled, temporary loss of bodily sensation or awareness that is induced for medical purposes

ANSWERS: 138. colonoscopy, 139. supplant, 140. lily, 141. exoskeleton, 142. biomedical, 143. crowdsourcing, 144. anesthesia

145. mote the function	v.	to change the key, style, loudness, etc., of something in music to create a particular effect; to fix or adjust the time, amount, degree, or rate of something
146. micic analysis	adj.	tiny; exceedingly precise and detail-oriented; of or used in microscopy
147. bic exoskeleton	adj.	relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original
148. traumatic paria	n.	a form of paralysis that affects all or part of the lower body, typically caused by injury to the spinal cord or nervous system
149. whk him with a stick	<i>v</i> .	to hit someone or something hard or noisily
150. unt demand	adj.	describing a need, goal, or expectation that has not been satisfied or fulfilled
151. manual dety	n.	skill and speed in performing physical tasks, especially with the hands; mental skill or adroitness in dealing with situations or problems
152. modern ongy treatment	n.	the branch of medicine that deals with the study and treatment of tumors, especially malignancies

ANSWERS: 145. modulate, 146. microscopic, 147. bionic, 148. paraplegia, 149. whack, 150. unmet, 151. dexterity, 152. oncology

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

1.	The discovery of a critical bug caused the company to delay the release.
n.	(abbreviation for application) software designed to run on smartphones and other mobile devices or inside a web browser on a PC
2.	The once-thriving city has into a crime-ridden slum.
<i>v</i> .	(of a person, animal, or plant) to become worse in health or physical condition
3.	The deep on my arm required several stitches to close.
n.	a deep cut or tear in flesh or skin, often caused by a sharp object or a traumatic injury
4.	The of the crab protects it from predators and environmental changes.
n.	a hard, external protective covering or framework that supports and gives shape to the body of an invertebrate animal, such as an insect or crab
5.	The soldier was fitted with a arm after losing him in combat.
adj	relating to or using technology or devices that enhance or replace biological functions, typically in a way that mimics or improves upon the original
6.	The project is in of being canceled due to a lack of funding.
n.	the state of being in danger or at risk of harm or loss
7.	The cardiologist analyzed the cells in the patient's heart tissue.
n.	a type of muscle cell found in muscle tissue, responsible for contraction and movement
	SWERS: 1. app's, 2. degenerated, 3. laceration, 4. exoskeleton, 5. bionic, 6. pardy, 7. myocyte

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20. proteome

ANSWERS: 21. endoscope, 22. decentralize, 23. supplant, 24. Bluetooth, 25. gamut,

26. decode

ANSWERS: 27. quake, 28. anesthesia, 29. lily, 30. cardiologist, 31. oncology, 32. macula-related, 33. blockbuster

Vocab-Builder Ref from "Daniel Kraft: Medicine's future? There's an app for that | TED Talk" (76 words)

ANSWERS: 41. lesion, 42. underserved, 43. curator, 44. haplotype, 45. pacemakers, 46. embryonic, 47. gallbladder

48.	Inspectors noticed cracks in the submarine's hull.
adj	tiny; exceedingly precise and detail-oriented; of or used in microscopy
49.	They've decided to a ruined castle.
<i>v</i> .	to build or form something again that has been damaged or destroyed
50.	He had a because he was working through the night.
n.	the fact of becoming ill or starting to misbehave again after making an improvement
51.	The patient underwent a scan to diagnose their medical condition.
n.	the branch of medicine that uses medical imaging technologies such as X-rays CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
52.	He created a beautiful piece of music using only
n.	the act of making something up on the spot or creating or performing something without preparation
53.	The tire had a and needed to be replaced.
n.	a small hole or wound made by piercing, such as with a needle, nail, or pointed object
54.	Economic factors and monetary policy inflation.
v.	to increase the size, extent, quantity, etc. of something by adding something to it
55.	After his accident, he was left with and had to use a wheelchair.
n.	a form of paralysis that affects all or part of the lower body, typically caused by injury to the spinal cord or nervous system
	SWERS: 48. microscopic, 49. reconstruct, 50. relapse, 51. radiology, 52. provisation, 53. puncture, 54. augmented, 55. paraplegia

Vocab-Builder Ref from "Daniel Kraft: Medicine's future? There's an app for that | TED Talk" (76 words)

Vocab-Builder Ref from "Daniel Kraft: Medicine's future? There's an app for that | TED Talk" (76 words)

ANSWERS: 71. Biomedical, 72. innovate, 73. tweet, 74. incentivize, 75. unmet, 76. quantify