# **Englist.me**

# Vocabulary Builder Reference from...

Sarthak Sinha: How a wound heals itself | TED Talk https://www.ted.com/talks/sarthak\_sinha\_how\_a\_wound\_heals\_itself



# **Advanced Words Only**

#### **IMPORTANT**

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# **Session 1: Word List**

### **epidermis**

n. the outermost layer of skin, composed of flat, scale-like cells that provide a protective barrier against external substances and help regulate body temperature

synonym: skin, cuticle, derma

(1) epidermis layer, (2) epidermis cells

Excessive exposure to UV radiation harms the **epidermis** and increases the risk of skin cancer.

#### keratin

 a fibrous protein that is the main structural component of hair, nails, and the outer layer of skin in mammals and birds; also found in horns, hooves, and feathers

synonym: ceratin

(1) **keratin** treatment, (2) **keratin** protein

Keratosis is a skin condition characterized by the formation of excess **keratin** on the skin's surface

### penetrate

v. to pass into or through something, often by overcoming resistance

*synonym*: pierce, stab, go through

(1) **penetrate** a cell, (2) **penetrate** quickly into the skin Western ideology slowly **penetrates** through the eastern countries.

#### dermis

*n.* the layer of skin beneath the epidermis that contains blood vessels, nerves, and connective tissue

synonym: skin layer, corium, cutis

(1) hair follicle **dermis**, (2) skin **dermis** 

The **dermis** layer contains nerve endings, which enable us to feel sensations such as pressure and pain.

#### hemostasis

n. the natural process or medical technique of stopping or controlling bleeding, usually achieved through various mechanisms such as blood vessel constriction, blood clotting, or surgical procedures

synonym: bleeding stoppage, blood clotting

(1) **hemostasis** technique, (2) **hemostasis** valve The nurse applied pressure to the wound to ensure **hemostasis** before stitching it up.

#### vasoconstriction

n. the narrowing or constriction of blood vessels,
 particularly the contraction of smooth muscles in the
 vessel walls, which can result in reduced blood flow

synonym: narrowing, constriction, tightness

(1) induced **vasoconstriction**, (2) peripheral **vasoconstriction** 

The body responds to cold temperatures through **vasoconstriction** to preserve heat.

avert

v. to prevent something dangerous or undesirable from happening

synonym: discourage, prevent, deter

(1) avert disaster, (2) avert a strike

The dam systematically releases large amounts of water to avert flooding during the rainy season

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.

#### fibrin

a fibrous protein involved in the clotting of blood, forming a mesh-like network of fibers to create a blood clot and stop bleeding, and also plays a role in wound healing and other biological processes

synonym: clot, coagulation, thrombus

(1) **fibrin** clot, (2) **fibrin** formation

The doctor applied **fibrin** sealant to help the wound heal and prevent infection.

#### crosslink

v. to chemically or molecularly link two or more substances or molecules together; to connect or fuse different parts or components into a unified whole; (noun) a bond or connection between two or more molecules or parts of a molecule that results in the formation of a three-dimensional network or structure

synonym: link, connect, bond

(1) **crosslink** with the surface of the material, (2) the **crosslink** between the two polymers

The new polymer material is designed to **crosslink** more efficiently, improving its strength and durability.

# pathogen

 a bacterium, virus, or other microorganism that causes disease

synonym: germ, microbe, bacterium

(1) plant **pathogen**, (2) the **pathogen** in the air mRNA vaccines are approved faster because they do not contain inactivated **pathogens**.

# macrophage

 a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells

synonym: white blood cell, scavenger cell, phagocyte

(1) **macrophage** activity, (2) **macrophage** dysfunction Cancer cells can evade the immune system's detection by

avoiding interactions with macrophages.

#### devour

v. to eat or consume something eagerly or ravenously; or to destroy something rapidly

synonym: consume, swallow, destroy

(1) devour a meal, (2) devour my way

She **devoured** the mystery novel in one sitting.

# phagocyte

 a type of cell in the immune system that is capable of engulfing or absorbing foreign, harmful particles or microorganisms to protect the body from infection or disease

synonym: cell-eater, macrophage, scavenger cell

- (1) **phagocyte** cells, (2) mononuclear **phagocyte** system The **phagocyte** activity in the human body plays a crucial role in the immune response by engulfing harmful pathogens.
- a thing that encourages someone to do something; any sharply pointed projection; (verb) to incite or stimulate someone or something

synonym: encouragement, motivation, stimulus

(1) **spur** of the moment, (2) **spur** a momentum of economic growth

The threat of losing his job was the **spur** he needed to work harder.

#### constrict

spur

v. to make something narrow or tight, often restricting movement or flow; to become narrow or tighter

*synonym*: squeeze, compress, tighten

constrict blood vessels, (2) constrict freedom
 The snake's muscles began to constrict around its prey.

#### vasodilation

n. the widening or expansion of blood vessels, particularly the arteries, which leads to an increase in blood flow and a decrease in blood pressure

synonym: widening of blood vessels, vascular expansion

(1) vasodilation of blood vessels, (2) vasodilation therapy

Warm temperatures can cause **vasodilation**, resulting in a feeling of warmth in the body.

### proliferate

- v. to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled mannersynonym: multiply, spread, propagate
- (1) **proliferate** cells, (2) **proliferate** weeds

  The number of COVID cases continued to **proliferate** in many countries worldwide.

#### fibroblast

- a type of cell in connective tissue that produces and maintains the extracellular matrix, which provides support and structure to tissues and organs
- (1) **fibroblast** growth factor, (2) **fibroblast** migration **Fibroblast** cells play an important role in tissue repair and regeneration.

# collagen

n. a fibrous protein that forms the connective tissues in animals, including skin, tendons, and bone; often used in cosmetic and medical treatments for its ability to add firmness and elasticity to skin or other tissues

synonym: gelatin, protein, tissue

(1) **collagen** supplement, (2) **collagen** production Our natural **collagen** production decreases as we age, leading to wrinkles, sagging skin, and joint pain.

#### remodel

- v. to change the structure or form of somethingsynonym: refurbish, remake, revamp
- (1) **remodel** the car, (2) **remodel** portfolio We are **remodeling** these rooms now.

### rearrange

to change the order or position of things already made;
 to change the time, date, or place of an event already planned

*synonym*: readjust, reorganize, reconstruct

(1) **rearrange** the furniture, (2) **rearrange** his schedule Please **rearrange** these files as we start a new project

#### tomorrow.

#### tensile

 adj. relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension

synonym: flexible, pliable, ductile

(1) **tensile** deformation, (2) **tensile** properties

The engineer tested the **tensile** strength of the metal to determine its durability.

# improvisation

 the act of making something up on the spot or creating or performing something without preparation

synonym: spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation** He created a beautiful piece of music using only **improvisation**.

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.

stride

v. to walk with long steps in a particular direction; (noun) an important and positive progress

*synonym*: step, walk, march

(1) **stride** across a room, (2) **stride** down a slope She **strides** confidently across the stage to accept her award.

# **Session 2: Spelling**

1.	fibst migration	n.	a type of cell in connective tissue that produces and maintains the extracellular matrix, which provides support and structure to tissues and organs
2.	coct freedom	v.	to make something narrow or tight, often restricting movement or flow; to become narrow or tighter
3.	ste down a slope	v.	to walk with long steps in a particular direction; (noun) an important and positive progress
4.	ste across a room	v.	to walk with long steps in a particular direction; (noun) an important and positive progress
5.	rege his schedule	v.	to change the order or position of things already made; to change the time, date, or place of an event already planned
6.	jazz impion	n.	the act of making something up on the spot or creating or performing something without preparation
7.	ken treatment	n.	a fibrous protein that is the main structural component of hair, nails, and the outer layer of skin in mammals and birds; also found in horns, hooves, and feathers
8.	peripheral vasion	n.	the narrowing or constriction of blood vessels, particularly the contraction of smooth muscles in the vessel walls, which can result in reduced blood flow

ANSWERS: 1. fibroblast, 2. constrict, 3. stride, 4. stride, 5. rearrange, 6. improvisation, 7. keratin, 8. vasoconstriction

9.	epis cells	n.	the outermost layer of skin, composed of flat, scale-like cells that provide a protective barrier against external substances and help regulate body temperature
10.	reI the car	v.	to change the structure or form of something
11.	avt a strike	v.	to prevent something dangerous or undesirable from happening
12.	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
13.	der my way	v.	to eat or consume something eagerly or ravenously; or to destroy something rapidly
14.	burn sr	n.	a mark that remains on the skin after a wound has healed
15.	vasion therapy	n.	the widening or expansion of blood vessels, particularly the arteries, which leads to an increase in blood flow and a decrease in blood pressure
16.	hemis technique	n.	the natural process or medical technique of stopping or controlling bleeding, usually achieved through various mechanisms such as blood vessel constriction, blood clotting, or surgical procedures
17.	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

ANSWERS: 9. epidermis, 10. remodel, 11. avert, 12. clot, 13. devour, 14. scar, 15. vasodilation, 16. hemostasis, 17. clot

18.	prote weeds	ν.	to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner
19.	carry a sr	n.	a mark that remains on the skin after a wound has healed
20.	tee deformation	adj.	relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension
21.	prote cells	<i>v</i> .	to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner
22.	rege the furniture	<i>v</i> .	to change the order or position of things already made; to change the time, date, or place of an event already planned
23.	epis layer	n.	the outermost layer of skin, composed of flat, scale-like cells that provide a protective barrier against external substances and help regulate body temperature
24.	pete a cell	<i>v</i> .	to pass into or through something, often by overcoming resistance
25.	coen supplement	n.	a fibrous protein that forms the connective tissues in animals, including skin, tendons, and bone; often used in cosmetic and medical treatments for its ability to add firmness and elasticity to skin or other tissues
26.	s_r of the moment	n.	a thing that encourages someone to do something; any sharply pointed projection; (verb) to incite or stimulate someone or something

ANSWERS: 18. proliferate, 19. scar, 20. tensile, 21. proliferate, 22. rearrange, 23. epidermis, 24. penetrate, 25. collagen, 26. spur

ΖΙ.	coen production	n.	a fibrous protein that forms the connective tissues in animals, including skin, tendons, and bone; often used in cosmetic and medical treatments for its ability to add firmness and elasticity to skin or other tissues
28.	s_r a momentum of economic growth	n.	a thing that encourages someone to do something; any sharply pointed projection; (verb) to incite or stimulate someone or something
29.	macge dysfunction	n.	a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells
30.	induced vasion	n.	the narrowing or constriction of blood vessels, particularly the contraction of smooth muscles in the vessel walls, which can result in reduced blood flow
31.	the crnk between the two polymers	<i>v</i> .	to chemically or molecularly link two or more substances or molecules together to connect or fuse different parts or components into a unified whole; (noun a bond or connection between two or more molecules or parts of a molecule that results in the formation of a three-dimensional network or structure
32.	fibst growth factor	n.	a type of cell in connective tissue that produces and maintains the extracellular matrix, which provides support and structure to tissues and organs

ANSWERS: 27. collagen, 28. spur, 29. macrophage, 30. vasoconstriction, 31. crosslink, 32. fibroblast

33.	avt disaster	ν.	to prevent something dangerous or undesirable from happening
34.	fin formation	n.	a fibrous protein involved in the clotting of blood, forming a mesh-like network of fibers to create a blood clot and stop bleeding, and also plays a role in wound healing and other biological processes
35.	coct blood vessels	v.	to make something narrow or tight, often restricting movement or flow; to become narrow or tighter
36.	impion on stage	n.	the act of making something up on the spot or creating or performing something without preparation
37.	phte cells	n.	a type of cell in the immune system that is capable of engulfing or absorbing foreign, harmful particles or microorganisms to protect the body from infection or disease
38.	hemis valve	n.	the natural process or medical technique of stopping or controlling bleeding, usually achieved through various mechanisms such as blood vessel constriction, blood clotting, or surgical procedures
39.	ken protein	n.	a fibrous protein that is the main structural component of hair, nails, and the outer layer of skin in mammals and birds; also found in horns, hooves, and feathers
40.	pete quickly into the skin	v.	to pass into or through something, often by overcoming resistance
	SWERS: 33. avert, 34. fibrin, 35. constr	rict, 3	36. improvisation, 37. phagocyte, 38.

41.	mononuclear phte system	n.	a type of cell in the immune system that is capable of engulfing or absorbing foreign, harmful particles or microorganisms to protect the body from infection or disease
42.	crnk with the surface of the material	v.	to chemically or molecularly link two or more substances or molecules together; to connect or fuse different parts or components into a unified whole; (noun) a bond or connection between two or more molecules or parts of a molecule that results in the formation of a three-dimensional network or structure
43.	the paen in the air	n.	a bacterium, virus, or other microorganism that causes disease
44.	hair follicle des	n.	the layer of skin beneath the epidermis that contains blood vessels, nerves, and connective tissue
45.	macge activity	n.	a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells
46.	skin des	n.	the layer of skin beneath the epidermis that contains blood vessels, nerves, and connective tissue
47.	fin clot	n.	a fibrous protein involved in the clotting of blood, forming a mesh-like network of fibers to create a blood clot and stop bleeding, and also plays a role in wound healing and other biological processes

ANSWERS: 41. phagocyte, 42. crosslink, 43. pathogen, 44. dermis, 45. macrophage, 46. dermis, 47. fibrin

48. der a meal	<i>v</i> .	to eat or consume something eagerly or ravenously; or to destroy something rapidly
49. plant paen	n.	a bacterium, virus, or other microorganism that causes disease
50. tee properties	adj.	relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension
51. reI portfolio	v.	to change the structure or form of something
52. vasion of blood vessels	n.	the widening or expansion of blood vessels, particularly the arteries, which leads to an increase in blood flow and a decrease in blood pressure

ANSWERS: 48. devour, 49. pathogen, 50. tensile, 51. remodel, 52. vasodilation

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

1.	The new polymer material is designed to more efficiently, improving its strength and durability.
<i>v</i> .	to chemically or molecularly link two or more substances or molecules together to connect or fuse different parts or components into a unified whole; (noun) a bond or connection between two or more molecules or parts of a molecule that results in the formation of a three-dimensional network or structure
2.	The number of COVID cases continued to in many countries worldwide.
v.	to grow or increase rapidly in number; to reproduce or spread rapidly, especially in an uncontrolled manner
3.	We are these rooms now.
ν.	to change the structure or form of something
4.	Western ideology slowly through the eastern countries.
<i>v</i> .	to pass into or through something, often by overcoming resistance
5.	Our natural production decreases as we age, leading to wrinkles, sagging skin, and joint pain.
n.	a fibrous protein that forms the connective tissues in animals, including skin, tendons, and bone; often used in cosmetic and medical treatments for its ability to add firmness and elasticity to skin or other tissues
6.	The dam systematically releases large amounts of water to flooding during the rainy season
ν.	to prevent something dangerous or undesirable from happening
AN ave	SWERS: 1. crosslink, 2. proliferate, 3. remodeling, 4. penetrates, 5. collagen, 6.

7.	The threat of losing his job was the he needed to work harder.
n.	a thing that encourages someone to do something; any sharply pointed projection; (verb) to incite or stimulate someone or something
8.	The in the blood vessel required immediate medical attention.
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
9.	Warm temperatures can cause resulting in a feeling of warmth in the body.
n.	the widening or expansion of blood vessels, particularly the arteries, which leads to an increase in blood flow and a decrease in blood pressure
10.	mRNA vaccines are approved faster because they do not contain inactivated
n.	a bacterium, virus, or other microorganism that causes disease
11.	Cancer cells can evade the immune system's detection by avoiding interactions with
n.	a large white blood cell that helps to engulf and destroy foreign objects or materials in the body, such as bacteria or cancer cells
12.	Please these files as we start a new project tomorrow.
v.	to change the order or position of things already made; to change the time, date, or place of an event already planned
13.	cells play an important role in tissue repair and regeneration.
n.	a type of cell in connective tissue that produces and maintains the extracellular matrix, which provides support and structure to tissues and organs
	SWERS: 7. spur, 8. clot, 9. vasodilation, 10. pathogens, 11. macrophages, 12. rrange, 13. Fibroblast

14. Even after the wound has healed, a remains.
n. a mark that remains on the skin after a wound has healed
15. The snake's muscles began to around its prey.
v. to make something narrow or tight, often restricting movement or flow; to become narrow or tighter
16. The engineer tested the strength of the metal to determine its durability
adj. relating to the ability of a material or structure to stretch or bend without breaking or losing its shape; having great strength or flexibility under tension
17. The activity in the human body plays a crucial role in the immune response by engulfing harmful pathogens.
n. a type of cell in the immune system that is capable of engulfing or absorbing foreign, harmful particles or microorganisms to protect the body from infection or disease
18. The doctor applied sealant to help the wound heal and prevent infection
n. a fibrous protein involved in the clotting of blood, forming a mesh-like network of fibers to create a blood clot and stop bleeding, and also plays a role in wound healing and other biological processes
19. Keratosis is a skin condition characterized by the formation of excess on the skin's surface
n. a fibrous protein that is the main structural component of hair, nails, and the outer layer of skin in mammals and birds; also found in horns, hooves, and feathers
20. She confidently across the stage to accept her award.
v. to walk with long steps in a particular direction; (noun) an important and positive progress
ANSWERS: 14. scar, 15. constrict, 16. tensile, 17. phagocyte, 18. fibrin, 19. keratin, 20. strides

21.	The nurse applied pressure to the wound to ensureit up.	before stitching
n.	the natural process or medical technique of stopping or controll usually achieved through various mechanisms such as blood veconstriction, blood clotting, or surgical procedures	•
22.	The body responds to cold temperatures throughpreserve heat.	to
n.	the narrowing or constriction of blood vessels, particularly the c smooth muscles in the vessel walls, which can result in reduced	
23.	He created a beautiful piece of music using only	
n.	the act of making something up on the spot or creating or perfo something without preparation	rming
24.	She the mystery novel in one sitting.	
<i>v</i> .	to eat or consume something eagerly or ravenously; or to destreast	oy something
25.	The layer contains nerve endings, which enable us to fee such as pressure and pain.	el sensations
n.	the layer of skin beneath the epidermis that contains blood vess and connective tissue	sels, nerves,
26.	Excessive exposure to UV radiation harms the and ir of skin cancer.	ncreases the risk
n.	the outermost layer of skin, composed of flat, scale-like cells the protective barrier against external substances and help regulate temperature	•
	SWERS: 21. hemostasis, 22. vasoconstriction, 23. improvisation, dermis, 26. epidermis	24. devoured,

V	ocab-Builder Ref from	"Sarthak Sinha: Ho	ow a wound heals	itself   TED Talk" (2	26 words)
ANSWERS:					
ANSWERS.					