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## Vocabulary Builder Reference from...

*Sajan Saini: How light technology is changing medicine | TED Talk*

[https://www.ted.com/talks/sajan\\_saini\\_how\\_light\\_technology\\_is\\_changing\\_medicine](https://www.ted.com/talks/sajan_saini_how_light_technology_is_changing_medicine)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### attache

*n.* a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase

*synonym* : diplomat, envoy, briefcase

(1) a commercial **attache**, (2) black **attache** case

A prime minister talked with a military **attache** of the country's embassy.

### glowing

*adj.* highly enthusiastic; greatly praised

*synonym* : burning, bright, flaming

(1) **glowing** reviews, (2) **glowing** cheeks

The western sky was **glowing** pink.

### bloodstream

*n.* the blood flowing through the body

(1) **bloodstream** in an artery, (2) **bloodstream** to the brain

Cancer cells are often carried throughout the body by the **bloodstream**.

### translucent

*adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent

*synonym* : semi-transparent, see-through

(1) **translucent** glass, (2) **translucent** skin

The sunlight shone through the **translucent** curtains, casting a warm glow in the room.

## flashlight

*n.* a portable electric light with a handle and a switch that can be turned on and off

*synonym*: torch, lamp, beacon

(1) **flashlight** beam, (2) **flashlight** batteries

He used a backup **flashlight** to find his way through the dark cave.

## oximeter

*n.* a device that measures the oxygen saturation levels in a person's blood, typically attached to a fingertip or earlobe

*synonym*: oxygen meter, oximetry device

(1) **oximeter** reading, (2) portable **oximeter**

The doctor used a digital **oximeter** to measure the patient's oxygen levels.

## inhale

*v.* to breathe in air or a different substance, such as smoke

*synonym*: breathe in, take in, draw in

(1) **inhale** the smoke, (2) **inhale** the aroma

He **inhaled** deeply, trying to calm down.

## hemoglobin

*n.* a protein-based molecule found in red blood cells that transports oxygen throughout the body

*synonym*: red cell pigment, oxygen carrier

(1) **hemoglobin** level, (2) abnormal **hemoglobin**

The **hemoglobin** gene mutation can cause genetic disorders such as sickle cell disease.

## fingerprint

*n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person

*synonym*: print, mark, impression

(1) **fingerprint** at a crime scene, (2) **fingerprint** identification

The police used a **fingerprint** scanner to identify the suspect.

## industrious

*adj.* hardworking, diligent, and persistent in effort

*synonym* : diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

## 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.

## reshape

*v.* to change the form or structure of something

*synonym* : alter, adjust, modify

(1) **reshape** education policy, (2) **reshape** my thoughts

The advent of the Internet completely **reshaped** the manufacturing industry.

## resonate

*v.* to be filled with a deep echoing sound

*synonym* : echo, reverberate, resound

(1) deeply **resonate** with the consumers, (2) **resonate** in the same frequency

The sound **resonates** well in this theater.

## trapper

*n.* a person who sets traps for wild animals, typically for their fur or for pest control; a person who is skilled in trapping or catching animals or in navigating difficult or dangerous terrain

*synonym* : hunter, catcher

(1) skilled **trapper**, (2) beaver **trapper**

The fur **trapper** spent months in the wilderness, searching for the best furs to sell.

## siphon

*n.* a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a

liquid from a container

*synonym* : tube, hose, pipe

(1) **siphon** off political funds, (2) **siphon** jet

The **siphon** pipe in my aquarium helps to keep the water clean and clear by removing debris and waste.

## circumference

*n.* the distance around the outside of a circular or curved object or area

*synonym* : perimeter, edge, outer boundary

(1) angle of **circumference**, (2) chest **circumference**

The **circumference** of the earth is approximately 24,901 miles.

## pluck

*v.* to pull or draw something, especially with sudden force or effort; to strip of feathers

*synonym* : grab, pull out, pick

(1) **pluck** a gray hair, (2) **pluck** out weeds

She **plucked** the flowers off the bush.

## vibrate

*v.* to move or cause anything to move fast and in small increments from side to side

*synonym* : oscillate, convulse, jerk

(1) **vibrate** at a regular frequency, (2) **vibrate** with anger

During the flight, the wings of the plane **vibrate**.

## overtone

*n.* a subtle or implicit meaning or inference that is conveyed in addition to the primary or literal meaning of something; a musical tone that is produced in addition to the fundamental pitch of a note and which gives color and character to the sound

*synonym* : harmonic, undertone, implication

(1) **overtone** color, (2) emotional **overtone**s

The singer's voice had a beautiful **overtone**, adding depth to the song.

## saliva

*n.* the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate

food during chewing and digestion

*synonym*: spit, drool, slobber

(1) dog's **saliva**, (2) dry mouth with little **saliva**

The dentist asked him to spit out the excess **saliva** into the sink.

## autoimmune

*adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances

(1) insulin **autoimmune** syndrome, (2) **autoimmune** disorder

The presence of certain substances triggered the **autoimmune** response.

## sift

*v.* to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles

*synonym*: filter, go through, sieve

(1) **sift** the candidates, (2) **sift** sand

The search engine helps **sift** information.

## spit

*v.* to eject saliva or other liquid from the mouth

*synonym*: expectorate, saliva, spew

(1) **spit** a bullet, (2) **spit** a mouthful of saliva

She tried to **spit** out the gum that she had been chewing.

## biomolecule

*n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

*synonym*: biochemical, molecule, protein

(1) **biomolecule** structure, (2) protein **biomolecule**

DNA is a complex **biomolecule** that contains the genetic information of an organism.

- trot**
- v. to run or jog at a moderate pace; to walk with long, quick strides
- synonym* : jog, run, race
- (1) **trot** across the street, (2) **trot** off happily
- She **trotted** to keep up with him.
- repurpose**
- v. to use something again for a different purpose than it was originally intended
- synonym* : reutilize, recycle, reuse
- (1) **repurpose** an old building, (2) **repurpose** a used car
- The old barn was **repurposed** into a modern event space.
- illuminate**
- v. to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
- synonym* : brighten, light, adorn
- (1) **illuminate** a dark hall, (2) **illuminate** my understanding
- That biologist **illuminated** the mechanism of heredity.
- astonish**
- v. to surprise or shock someone greatly; to cause amazement or wonder
- synonym* : amaze, astound, surprise
- (1) **astonish** audience, (2) **astonish** the world
- Her incredible singing voice **astonished** everyone in the room.

## Session 2: Spelling

1. re\_\_\_\_\_se a used car *v.* to use something again for a different purpose than it was originally intended
2. fin\_\_\_\_\_nt identification *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
3. black at\_\_\_\_\_e case *n.* a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
4. chest cir\_\_\_\_\_nce *n.* the distance around the outside of a circular or curved object or area
5. dry mouth with little sa\_\_\_\_a *n.* the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion
6. ind\_\_\_\_\_us student *adj.* hardworking, diligent, and persistent in effort
7. fin\_\_\_\_\_nt at a crime scene *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
8. portable ox\_\_\_\_\_er *n.* a device that measures the oxygen saturation levels in a person's blood, typically attached to a fingertip or earlobe
9. ox\_\_\_\_\_er reading *n.* a device that measures the oxygen saturation levels in a person's blood, typically attached to a fingertip or earlobe

ANSWERS: 1. repurpose, 2. fingerprint, 3. attache, 4. circumference, 5. saliva, 6. industrious, 7. fingerprint, 8. oximeter, 9. oximeter

10. vi\_\_\_\_e at a regular frequency      *v.* to move or cause anything to move fast and in small increments from side to side
11. dog's sa\_\_\_\_a      *n.* the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion
12. insulin aut\_\_\_\_ne syndrome      *adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
13. a commercial at\_\_\_\_e      *n.* a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
14. blo\_\_\_\_am to the brain      *n.* the blood flowing through the body
15. as\_\_\_\_sh the world      *v.* to surprise or shock someone greatly; to cause amazement or wonder
16. in\_\_\_\_e the aroma      *v.* to breathe in air or a different substance, such as smoke
17. angle of cir\_\_\_\_nce      *n.* the distance around the outside of a circular or curved object or area
18. fla\_\_\_\_ht batteries      *n.* a portable electric light with a handle and a switch that can be turned on and off
19. emotional ov\_\_\_\_nes      *n.* a subtle or implicit meaning or inference that is conveyed in addition to the primary or literal meaning of something; a musical tone that is produced in addition to the fundamental pitch of a note and which gives color and character to the sound

ANSWERS: 10. vibrate, 11. saliva, 12. autoimmune, 13. attache, 14. bloodstream, 15. astonish, 16. inhale, 17. circumference, 18. flashlight, 19. overtone



20. pl\_\_k out weeds      *v.* to pull or draw something, especially with sudden force or effort; to strip of feathers
21. s\_\_t the candidates      *v.* to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles
22. s\_\_t a mouthful of saliva      *v.* to eject saliva or other liquid from the mouth
23. ill\_\_\_\_\_te a dark hall      *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
24. t\_\_t across the street      *v.* to run or jog at a moderate pace; to walk with long, quick strides
25. si\_\_\_n off political funds      *n.* a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container
26. bio\_\_\_\_\_le structure      *n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer
27. aut\_\_\_\_\_ne disorder      *adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances

ANSWERS: 20. pluck, 21. sift, 22. spit, 23. illuminate, 24. trot, 25. siphon, 26. biomolecule, 27. autoimmune

28. re\_\_\_\_\_e education policy      *v.* to change the form or structure of something
29. skilled tr\_\_\_\_\_r      *n.* a person who sets traps for wild animals, typically for their fur or for pest control; a person who is skilled in trapping or catching animals or in navigating difficult or dangerous terrain
30. s\_\_t a bullet      *v.* to eject saliva or other liquid from the mouth
31. mic\_\_\_\_\_ic analysis      *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
32. blo\_\_\_\_\_am in an artery      *n.* the blood flowing through the body
33. beaver tr\_\_\_\_\_r      *n.* a person who sets traps for wild animals, typically for their fur or for pest control; a person who is skilled in trapping or catching animals or in navigating difficult or dangerous terrain
34. gl\_\_\_\_\_g reviews      *adj.* highly enthusiastic; greatly praised
35. deeply re\_\_\_\_\_te with the consumers      *v.* to be filled with a deep echoing sound
36. tra\_\_\_\_\_nt skin      *adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent
37. mic\_\_\_\_\_ic inquiry      *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
38. re\_\_\_\_\_se an old building      *v.* to use something again for a different purpose than it was originally intended
39. in\_\_\_e the smoke      *v.* to breathe in air or a different substance, such as smoke

ANSWERS: 28. reshape, 29. trapper, 30. spit, 31. microscopic, 32. bloodstream, 33. trapper, 34. glowing, 35. resonate, 36. translucent, 37. microscopic, 38. repurpose, 39. inhale

40. si\_\_\_n jet *n.* a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container
41. re\_\_\_\_\_e my thoughts *v.* to change the form or structure of something
42. ill\_\_\_\_\_te my understanding *v.* to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
43. ind\_\_\_\_\_us worker *adj.* hardworking, diligent, and persistent in effort
44. pl\_\_k a gray hair *v.* to pull or draw something, especially with sudden force or effort; to strip of feathers
45. hem\_\_\_\_\_in level *n.* a protein-based molecule found in red blood cells that transports oxygen throughout the body
46. gl\_\_\_\_\_g cheeks *adj.* highly enthusiastic; greatly praised
47. s\_\_t sand *v.* to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles
48. re\_\_\_\_\_te in the same frequency *v.* to be filled with a deep echoing sound
49. tra\_\_\_\_\_nt glass *adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent

ANSWERS: 40. siphon, 41. reshape, 42. illuminate, 43. industrious, 44. pluck, 45. hemoglobin, 46. glowing, 47. sift, 48. resonate, 49. translucent

50. fla\_\_\_\_\_ht beam *n.* a portable electric light with a handle and a switch that can be turned on and off
51. vi\_\_\_\_\_e with anger *v.* to move or cause anything to move fast and in small increments from side to side
52. t\_\_t off happily *v.* to run or jog at a moderate pace; to walk with long, quick strides
53. as\_\_\_\_\_sh audience *v.* to surprise or shock someone greatly; to cause amazement or wonder
54. ov\_\_\_\_\_ne color *n.* a subtle or implicit meaning or inference that is conveyed in addition to the primary or literal meaning of something; a musical tone that is produced in addition to the fundamental pitch of a note and which gives color and character to the sound
55. abnormal hem\_\_\_\_\_in *n.* a protein-based molecule found in red blood cells that transports oxygen throughout the body
56. protein bio\_\_\_\_\_le *n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

ANSWERS: 50. flashlight, 51. vibrate, 52. trot, 53. astonish, 54. overtone, 55. hemoglobin, 56. biomolecule

## Session 3: Fill in the Blanks

1. That biologist \_\_\_\_\_ the mechanism of heredity.
  - v. to light something or to make something lighter or brighter; to make something free from confusion or ambiguity
  
2. The \_\_\_\_\_ of the earth is approximately 24,901 miles.
  - n. the distance around the outside of a circular or curved object or area
  
3. She \_\_\_\_\_ to keep up with him.
  - v. to run or jog at a moderate pace; to walk with long, quick strides
  
4. The dentist asked him to spit out the excess \_\_\_\_\_ into the sink.
  - n. the clear liquid that is secreted into the mouth by glands in the walls of the mouth and throat, helping to lubricate food during chewing and digestion
  
5. The singer's voice had a beautiful \_\_\_\_\_ adding depth to the song.
  - n. a subtle or implicit meaning or inference that is conveyed in addition to the primary or literal meaning of something; a musical tone that is produced in addition to the fundamental pitch of a note and which gives color and character to the sound
  
6. She \_\_\_\_\_ the flowers off the bush.
  - v. to pull or draw something, especially with sudden force or effort; to strip of feathers
  
7. He was known to be very \_\_\_\_\_ and would often work late into the night.
  - adj. hardworking, diligent, and persistent in effort

ANSWERS: 1. illuminated, 2. circumference, 3. trotted, 4. saliva, 5. overtone, 6. plucked, 7. industrious

8. The police used a \_\_\_\_\_ scanner to identify the suspect.
- n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
9. The doctor used a digital \_\_\_\_\_ to measure the patient's oxygen levels.
- n.* a device that measures the oxygen saturation levels in a person's blood, typically attached to a fingertip or earlobe
10. The \_\_\_\_\_ pipe in my aquarium helps to keep the water clean and clear by removing debris and waste.
- n.* a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container
11. She tried to \_\_\_\_\_ out the gum that she had been chewing.
- v.* to eject saliva or other liquid from the mouth
12. The \_\_\_\_\_ gene mutation can cause genetic disorders such as sickle cell disease.
- n.* a protein-based molecule found in red blood cells that transports oxygen throughout the body
13. Her incredible singing voice \_\_\_\_\_ everyone in the room.
- v.* to surprise or shock someone greatly; to cause amazement or wonder
14. The sound \_\_\_\_\_ well in this theater.
- v.* to be filled with a deep echoing sound
15. The search engine helps \_\_\_\_\_ information.
- v.* to put flour, sugar, etc. through a sieve (= a utensil consisting of a wire or plastic mesh in a frame) to remove lumps or large particles

ANSWERS: 8. fingerprint, 9. oximeter, 10. siphon, 11. spit, 12. hemoglobin, 13. astonished, 14. resonates, 15. sift

16. A prime minister talked with a military \_\_\_\_\_ of the country's embassy.  
*n.* a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
17. The presence of certain substances triggered the \_\_\_\_\_ response.  
*adj.* relating to a condition in which the body's immune system attacks and destroys healthy body tissue, mistaking it for harmful foreign substances
18. The sunlight shone through the \_\_\_\_\_ curtains, casting a warm glow in the room.  
*adj.* allowing light to pass through but scattering it so that objects behind cannot be seen clearly; partially transparent
19. The fur \_\_\_\_\_ spent months in the wilderness, searching for the best furs to sell.  
*n.* a person who sets traps for wild animals, typically for their fur or for pest control; a person who is skilled in trapping or catching animals or in navigating difficult or dangerous terrain
20. He \_\_\_\_\_ deeply, trying to calm down.  
*v.* to breathe in air or a different substance, such as smoke
21. During the flight, the wings of the plane \_\_\_\_\_.  
*v.* to move or cause anything to move fast and in small increments from side to side
22. The advent of the Internet completely \_\_\_\_\_ the manufacturing industry.  
*v.* to change the form or structure of something
23. The old barn was \_\_\_\_\_ into a modern event space.  
*v.* to use something again for a different purpose than it was originally intended

ANSWERS: 16. attache, 17. autoimmune, 18. translucent, 19. trapper, 20. inhaled, 21. vibrate, 22. reshaped, 23. repurposed

24. Inspectors noticed \_\_\_\_\_ cracks in the submarine's hull.

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

25. Cancer cells are often carried throughout the body by the \_\_\_\_\_.

*n.* the blood flowing through the body

26. The western sky was \_\_\_\_\_ pink.

*adj.* highly enthusiastic; greatly praised

27. DNA is a complex \_\_\_\_\_ that contains the genetic information of an organism.

*n.* a molecule produced by a living organism, typically composed of carbon, hydrogen, oxygen, nitrogen, and other elements, plays a vital role in various biological processes such as metabolism, energy production, and genetic information transfer

28. He used a backup \_\_\_\_\_ to find his way through the dark cave.

*n.* a portable electric light with a handle and a switch that can be turned on and off

ANSWERS: 24. microscopic, 25. bloodstream, 26. glowing, 27. biomolecule, 28. flashlight