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## Vocabulary Builder Reference from...

Anthony Atala: Printing a human kidney | TED Talk  
[https://www.ted.com/talks/anthony\\_atala\\_printing\\_a\\_human\\_kidney](https://www.ted.com/talks/anthony_atala_printing_a_human_kidney)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### 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.

### regenerative

*adj.* tending to regrow or restore lost or injured tissue

*synonym*: rejuvenating, restorative, healing

(1) **regenerative** medicine, (2) **regenerative** therapy

The **regenerative** properties of stem cells make them a promising area of research.

### scaffold

*n.* a temporary platform or structure used to support workers and materials during construction or maintenance work

*synonym*: platform, staging, framework

(1) **scaffold** construction, (2) go to the **scaffold**

The construction workers set up the **scaffold** to reach the top of the building.

### biomaterial

*n.* a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues

(1) **biomaterial** development, (2) **biomaterials** industry

The new **biomaterials** used in implants are more durable and less likely to cause an immune response.

## blouse

*n.* a loose-fitting upper garment for women, typically having a collar, buttons, and sleeves

*synonym* : shirt, top, tunic

(1) a lacy **blouse**, (2) **blouse** with sleeves

She paired her denim jeans with a delicate floral **blouse**.

## regenerate

*v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful

*synonym* : renew, revive, improve

(1) **regenerate** bone tissue, (2) a **regenerate** sinner

The new CEO's primary mission is to **regenerate** the company on the verge of bankruptcy.

## devise

*v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination

*synonym* : create, concoct, invent

(1) **devise** a plan, (2) **devise** a literary plot

They had to **devise** a system that did not depend on fossil fuels.

## suture

*n.* a stitch or series of stitches used to hold together the edges of a wound or incision so that it can heal; a line of junction between two bones, particularly in the skull of an animal or human

*synonym* : stitch, seam

(1) surgical **suture**, (2) **suture** thread

The surgeon used a special **suture** to close the wound.

## graft

*n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods

*synonym* : transplant, implantation, bribery

(1) **graft** surgery, (2) anti- **graft** law

The patient's skin **graft** procedure was successful, and he was released from the hospital.

## pancreas

*n.* a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine

*synonym* : gland, organ, islet

(1) **pancreas** inflammation, (2) **pancreas** function

The endocrine function of the **pancreas** involves the secretion of hormones such as insulin.

## supple

*adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas

*synonym* : flexible, pliable, bendable

(1) **supple** muscles, (2) **supple** leather

The ballerina's **supple** movements left the audience mesmerized.

## weave

*v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them

*synonym* : braid, unite, contrive

(1) **weave** on a loom, (2) **weave** a story

The girl **weaves** a garland for her friend.

## tease

*v.* to make fun of someone or make jokes about them, either in a playful way or to upset them; to separate the fibers of something; to ruffle a person's or animal's hair by combing

*synonym* : bully, annoy, provoke

(1) **tease** the children, (2) **tease** wool

This ad is intended to **tease** a competing product.

## leaflet

*n.* a small, thin piece of paper or other material, often used for advertising or informational purposes; a small branch

or part of a leaf

*synonym* : pamphlet, brochure, flier

(1) information **leaflet**, (2) political **leaflet**

The environmental group handed out **leaflets** to raise awareness of the dangers of deforestation.

## centigrade

*n.* a system of temperature measurement in which the freezing point of water is 0 degrees and the boiling point of water is 100 degrees; also known as the Celsius scale

(1) **centigrade** scale, (2) **centigrade** thermometer

The temperature reached a peak of 35 degrees **centigrade**.

## perfuse

*v.* to saturate or supply with a fluid or substance, especially to supply oxygenated blood to tissue or organs, often through a network of blood vessels

*synonym* : imbue, saturate, infuse

(1) **perfuse** blood, (2) rapidly **perfuse** the organs

The doctor recommended using a nitroglycerin spray to **perfuse** the medication into the patient's system quickly.

## infiltrate

*v.* to enter or penetrate a group, organization, or place covertly or secretly, usually with a specific purpose or goal in mind; to spread or diffuse through something gradually or subtly

*synonym* : penetrate, sneak in, invade

(1) **infiltrate** the bloodstream, (2) **infiltrate** a community

The spy was able to **infiltrate** the enemy's headquarters undetected.

## parenchyma

*n.* a type of tissue found in plants and animals, consisting of unspecialized cells that are the foundation of the organ or structure in which they are found, performing various functions such as storage, photosynthesis, and support

*synonym* : ground tissue, fundamental tissue

(1) **parenchyma** tissue, (2) hepatic **parenchyma**

The **parenchyma** cells in the plant tissue are responsible for photosynthesis.

## flatbed

*n.* a type of truck or trailer with an open, flat platform for carrying cargo or equipment; a type of scanner or printer that uses a flat, stationary surface to capture or print images

*synonym*: platform, truck bed, deck

(1) **flatbed** printing, (2) **flatbed** scanner

The construction workers used a **flatbed** truck to transport the heavy materials.

## morphometric

*adj.* relating to the measurement and analysis of the physical shape and structure of organisms, objects, or systems

*synonym*: geometric, dimensional, quantitative

(1) **morphometric** parameters, (2) **morphometric** measurements

The **morphometric** analysis revealed significant differences in body size among the different species of birds.

## volumetric

*adj.* relating to or measured by volume, which refers to the amount of space occupied by an object or substance

*synonym*: dimensional, spatial, cubic

(1) **volumetric** flow rate, (2) **volumetric** analysis

The 3D printer uses **volumetric** calculations to determine the material needed for each print job.

## onstage

*adv.* onto or on a stage in a theater; in front of an audience

(1) appeared **onstage**, (2) walk **onstage**

He performed his magic trick **onstage**, leaving the audience in awe.

## recess

*n.* a period of time when the members of a parliament, committee, etc., are adjourned; a short break in a trial in court

*synonym*: break, interval, pause

(1) a court **recess**, (2) during noon **recess**

The company decided to take a **recess** and reconvene the meeting later that day.

## dialysis

*n.* a medical treatment that removes waste and excess fluids from the blood of a patient with kidney failure

(1) **dialysis** nurse, (2) **dialysis** machine

Regular **dialysis** treatments are necessary for those with kidney failure.

## bifida

*n.* a congenital condition where the spinal column does not fully close during fetal development, resulting in a defect in the spinal cord or nerves

*synonym*: myelomeningocele, occult spinal dysraphism

(1) meningocele **bifida**, (2) occulta **bifida**

The pediatrician recommended specialized care for the baby diagnosed with spina **bifida**.

## profess

*v.* to declare openly, often publicly or formally, that one has a particular skill, belief, or feeling; to admit or affirm

*synonym*: declare, claim, confess

(1) **profess** innocence, (2) **profess** law

He **professes** his love for her every day, showering her with gifts and affection.

## stubborn

*adj.* refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change

*synonym*: persistent, obstinate, determined

(1) **stubborn** attitude, (2) **stubborn** stains

He was so **stubborn** about his beliefs that he refused to listen to any other points of view.

## Session 2: Spelling

- |                           |    |                                                                                                                                                                                                   |
|---------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. pr____s innocence      | v. | to declare openly, often publicly or formally, that one has a particular skill, belief, or feeling; to admit or affirm                                                                            |
| 2. reg_____te bone tissue | v. | to improve or renew an area, institution, system, etc., especially by making it more active or successful                                                                                         |
| 3. di_____is nurse        | n. | a medical treatment that removes waste and excess fluids from the blood of a patient with kidney failure                                                                                          |
| 4. we__e on a loom        | v. | to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them                                                         |
| 5. during noon re____s    | n. | a period of time when the members of a parliament, committee, etc., are adjourned; a short break in a trial in court                                                                              |
| 6. pa_____as inflammation | n. | a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine |
| 7. meningocele bi____a    | n. | a congenital condition where the spinal column does not fully close during fetal development, resulting in a defect in the spinal cord or nerves                                                  |

ANSWERS: 1. profess, 2. regenerate, 3. dialysis, 4. weave, 5. recess, 6. pancreas, 7. bifida

8. st\_\_\_\_rn stains *adj.* refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change
9. a court re\_\_\_\_s *n.* a period of time when the members of a parliament, committee, etc., are adjourned; a short break in a trial in court
10. reg\_\_\_\_ive medicine *adj.* tending to regrow or restore lost or injured tissue
11. st\_\_\_\_rn attitude *adj.* refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change
12. pa\_\_\_\_as function *n.* a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine
13. pr\_\_\_\_s law *v.* to declare openly, often publicly or formally, that one has a particular skill, belief, or feeling; to admit or affirm
14. occulta bi\_\_\_\_a *n.* a congenital condition where the spinal column does not fully close during fetal development, resulting in a defect in the spinal cord or nerves
15. vol\_\_\_\_ic flow rate *adj.* relating to or measured by volume, which refers to the amount of space occupied by an object or substance

ANSWERS: 8. stubborn, 9. recess, 10. regenerative, 11. stubborn, 12. pancreas, 13. profess, 14. bifida, 15. volumetric



16. rapidly pe\_\_\_\_\_e the organs      *v.* to saturate or supply with a fluid or substance, especially to supply oxygenated blood to tissue or organs, often through a network of blood vessels
17. su\_\_\_\_e muscles      *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
18. political le\_\_\_\_\_t      *n.* a small, thin piece of paper or other material, often used for advertising or informational purposes; a small branch or part of a leaf
19. de\_\_\_\_e a literary plot      *v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination
20. par\_\_\_\_\_ma tissue      *n.* a type of tissue found in plants and animals, consisting of unspecialized cells that are the foundation of the organ or structure in which they are found, performing various functions such as storage, photosynthesis, and support
21. fl\_\_\_\_\_d printing      *n.* a type of truck or trailer with an open, flat platform for carrying cargo or equipment; a type of scanner or printer that uses a flat, stationary surface to capture or print images
22. te\_\_e the children      *v.* to make fun of someone or make jokes about them, either in a playful way or to upset them; to separate the fibers of something; to ruffle a person's or animal's hair by combing

ANSWERS: 16. perfuse, 17. supple, 18. leaflet, 19. devise, 20. parenchyma, 21. flatbed, 22. tease

23. bio\_\_\_\_\_al development *n.* a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues
24. a reg\_\_\_\_\_te sinner *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
25. a lacy bl\_\_\_e *n.* a loose-fitting upper garment for women, typically having a collar, buttons, and sleeves
26. inf\_\_\_\_\_te the bloodstream *v.* to enter or penetrate a group, organization, or place covertly or secretly, usually with a specific purpose or goal in mind; to spread or diffuse through something gradually or subtly
27. information le\_\_\_\_\_t *n.* a small, thin piece of paper or other material, often used for advertising or informational purposes; a small branch or part of a leaf
28. de\_\_\_e a plan *v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination
29. inf\_\_\_\_\_te a community *v.* to enter or penetrate a group, organization, or place covertly or secretly, usually with a specific purpose or goal in mind; to spread or diffuse through something gradually or subtly
30. te\_\_\_e wool *v.* to make fun of someone or make jokes about them, either in a playful way or to upset them; to separate the fibers of something; to ruffle a person's or animal's hair by combing

ANSWERS: 23. biomaterial, 24. regenerate, 25. blouse, 26. infiltrate, 27. leaflet, 28. devise, 29. infiltrate, 30. tease

31. go to the sc\_\_\_\_ld *n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
32. mor\_\_\_\_ric parameters *adj.* relating to the measurement and analysis of the physical shape and structure of organisms, objects, or systems
33. walk on\_\_\_\_e *adv.* onto or on a stage in a theater; in front of an audience
34. su\_\_\_\_e thread *n.* a stitch or series of stitches used to hold together the edges of a wound or incision so that it can heal; a line of junction between two bones, particularly in the skull of an animal or human
35. mor\_\_\_\_ric measurements *adj.* relating to the measurement and analysis of the physical shape and structure of organisms, objects, or systems
36. appeared on\_\_\_\_e *adv.* onto or on a stage in a theater; in front of an audience
37. di\_\_\_\_is machine *n.* a medical treatment that removes waste and excess fluids from the blood of a patient with kidney failure
38. hepatic par\_\_\_\_ma *n.* a type of tissue found in plants and animals, consisting of unspecialized cells that are the foundation of the organ or structure in which they are found, performing various functions such as storage, photosynthesis, and support

ANSWERS: 31. scaffold, 32. morphometric, 33. onstage, 34. suture, 35. morphometric, 36. onstage, 37. dialysis, 38. parenchyma

39. reg\_\_\_\_\_ive therapy      *adj.* tending to regrow or restore lost or injured tissue
40. bio\_\_\_\_\_als industry      *n.* a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues
41. we\_\_e a story      *v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
42. traditional me\_\_\_\_\_al      *adj.* of or relating to the treatment or cure of disease
43. vol\_\_\_\_\_ic analysis      *adj.* relating to or measured by volume, which refers to the amount of space occupied by an object or substance
44. surgical su\_\_\_e      *n.* a stitch or series of stitches used to hold together the edges of a wound or incision so that it can heal; a line of junction between two bones, particularly in the skull of an animal or human
45. cen\_\_\_\_\_de scale      *n.* a system of temperature measurement in which the freezing point of water is 0 degrees and the boiling point of water is 100 degrees; also known as the Celsius scale
46. su\_\_\_e leather      *adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
47. pe\_\_\_\_\_e blood      *v.* to saturate or supply with a fluid or substance, especially to supply oxygenated blood to tissue or organs, often through a network of blood vessels

ANSWERS: 39. regenerative, 40. biomaterial, 41. weave, 42. medicinal, 43. volumetric, 44. suture, 45. centigrade, 46. supple, 47. perfuse

48. me\_\_\_\_\_al chemistry *adj.* of or relating to the treatment or cure of disease
49. sc\_\_\_\_\_ld construction *n.* a temporary platform or structure used to support workers and materials during construction or maintenance work
50. gr\_\_t surgery *n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods
51. anti-gr\_\_t law *n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods
52. cen\_\_\_\_\_de thermometer *n.* a system of temperature measurement in which the freezing point of water is 0 degrees and the boiling point of water is 100 degrees; also known as the Celsius scale
53. bl\_\_\_e with sleeves *n.* a loose-fitting upper garment for women, typically having a collar, buttons, and sleeves
54. fl\_\_\_\_\_d scanner *n.* a type of truck or trailer with an open, flat platform for carrying cargo or equipment; a type of scanner or printer that uses a flat, stationary surface to capture or print images

ANSWERS: 48. medicinal, 49. scaffold, 50. graft, 51. graft, 52. centigrade, 53. blouse, 54. flatbed

ANSWERS:

## Session 3: Fill in the Blanks

1. The ballerina's \_\_\_\_\_ movements left the audience mesmerized.  
*adj.* flexible and easy to bend or move; gracefully agile; adaptable or responsive to change or new ideas
2. The pediatrician recommended specialized care for the baby diagnosed with spina \_\_\_\_\_.  
*n.* a congenital condition where the spinal column does not fully close during fetal development, resulting in a defect in the spinal cord or nerves
3. The \_\_\_\_\_ properties of stem cells make them a promising area of research.  
*adj.* tending to regrow or restore lost or injured tissue
4. The girl \_\_\_\_\_ a garland for her friend.  
*v.* to make cloth, a carpet, a basket, etc., by repeatedly crossing a single thread through two sets of long threads at a right angle to them
5. The environmental group handed out \_\_\_\_\_ to raise awareness of the dangers of deforestation.  
*n.* a small, thin piece of paper or other material, often used for advertising or informational purposes; a small branch or part of a leaf
6. He \_\_\_\_\_ his love for her every day, showering her with gifts and affection.  
*v.* to declare openly, often publicly or formally, that one has a particular skill, belief, or feeling; to admit or affirm
7. The new \_\_\_\_\_ used in implants are more durable and less likely to cause an immune response.  
*n.* a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues

ANSWERS: 1. supple, 2. bifida, 3. regenerative, 4. weaves, 5. leaflets, 6. professes, 7. biomaterials

8. She paired her denim jeans with a delicate floral \_\_\_\_\_.
- n.* a loose-fitting upper garment for women, typically having a collar, buttons, and sleeves
9. The surgeon used a special \_\_\_\_\_ to close the wound.
- n.* a stitch or series of stitches used to hold together the edges of a wound or incision so that it can heal; a line of junction between two bones, particularly in the skull of an animal or human
10. He performed his magic trick \_\_\_\_\_ leaving the audience in awe.
- adv.* onto or on a stage in a theater; in front of an audience
11. The construction workers used a \_\_\_\_\_ truck to transport the heavy materials.
- n.* a type of truck or trailer with an open, flat platform for carrying cargo or equipment; a type of scanner or printer that uses a flat, stationary surface to capture or print images
12. This ad is intended to \_\_\_\_\_ a competing product.
- v.* to make fun of someone or make jokes about them, either in a playful way or to upset them; to separate the fibers of something; to ruffle a person's or animal's hair by combing
13. Regular \_\_\_\_\_ treatments are necessary for those with kidney failure.
- n.* a medical treatment that removes waste and excess fluids from the blood of a patient with kidney failure
14. The doctor recommended using a nitroglycerin spray to \_\_\_\_\_ the medication into the patient's system quickly.
- v.* to saturate or supply with a fluid or substance, especially to supply oxygenated blood to tissue or organs, often through a network of blood vessels

ANSWERS: 8. blouse, 9. suture, 10. onstage, 11. flatbed, 12. tease, 13. dialysis, 14. perfuse



15. The temperature reached a peak of 35 degrees \_\_\_\_\_.
- n.* a system of temperature measurement in which the freezing point of water is 0 degrees and the boiling point of water is 100 degrees; also known as the Celsius scale
16. The \_\_\_\_\_ cells in the plant tissue are responsible for photosynthesis.
- n.* a type of tissue found in plants and animals, consisting of unspecialized cells that are the foundation of the organ or structure in which they are found, performing various functions such as storage, photosynthesis, and support
17. The 3D printer uses \_\_\_\_\_ calculations to determine the material needed for each print job.
- adj.* relating to or measured by volume, which refers to the amount of space occupied by an object or substance
18. The \_\_\_\_\_ properties of this herb have been known to help with various ailments.
- adj.* of or relating to the treatment or cure of disease
19. They had to \_\_\_\_\_ a system that did not depend on fossil fuels.
- v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination
20. The patient's skin \_\_\_\_\_ procedure was successful, and he was released from the hospital.
- n.* a transplanted portion of tissue or skin, often taken from one part of the body and used to repair or replace damaged or missing tissue in another part; a corrupt or illegal means of acquiring wealth or power through illicit or unethical methods

ANSWERS: 15. centigrade, 16. parenchyma, 17. volumetric, 18. medicinal, 19. devise, 20. graft

21. He was so \_\_\_\_\_ about his beliefs that he refused to listen to any other points of view.

*adj.* refusing to change one's mind or behavior despite persuasion or evidence to the contrary; unyielding; difficult to move or change

22. The spy was able to \_\_\_\_\_ the enemy's headquarters undetected.

*v.* to enter or penetrate a group, organization, or place covertly or secretly, usually with a specific purpose or goal in mind; to spread or diffuse through something gradually or subtly

23. The new CEO's primary mission is to \_\_\_\_\_ the company on the verge of bankruptcy.

*v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful

24. The \_\_\_\_\_ analysis revealed significant differences in body size among the different species of birds.

*adj.* relating to the measurement and analysis of the physical shape and structure of organisms, objects, or systems

25. The company decided to take a \_\_\_\_\_ and reconvene the meeting later that day.

*n.* a period of time when the members of a parliament, committee, etc., are adjourned; a short break in a trial in court

26. The endocrine function of the \_\_\_\_\_ involves the secretion of hormones such as insulin.

*n.* a glandular organ in the digestive system that produces several important hormones, including insulin and glucagon, as well as digestive enzymes that help break down food in the small intestine

ANSWERS: 21. stubborn, 22. infiltrate, 23. regenerate, 24. morphometric, 25. recess, 26. pancreas

27. The construction workers set up the \_\_\_\_\_ to reach the top of the building.
- n.* a temporary platform or structure used to support workers and materials during construction or maintenance work

ANSWERS: 27. scaffold