

# Englist.me



## Vocabulary Builder Reference from...

*Hasini Jayatilaka: How cancer cells communicate --*

*and how we can slow them down | TED Talk*

[https://www.ted.com/talks/hasini\\_jayatilaka\\_how\\_cancer\\_cells\\_communicate\\_and\\_how\\_we\\_can\\_slow\\_them\\_down](https://www.ted.com/talks/hasini_jayatilaka_how_cancer_cells_communicate_and_how_we_can_slow_them_down)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### succumb

*v.* to fail to oppose something, such as desire, pressure, or some other opposing force; to die or suffer badly from the effect of a disease or injury

*synonym* : surrender, break down, die

(1) **succumb** to cancer, (2) **succumb** to old age

He finally **succumbed** to temptation.

### metastatic

*adj.* used to describe cancer cells that have spread from the primary site of origin to other parts of the body through the bloodstream or lymphatic system

*synonym* : spreading, invasive, secondary

(1) **metastatic** disease, (2) **metastatic** spreading

**Metastatic** cancer has spread from its original site to other body parts.

### distal

*adj.* situated away from the center of the body or structure; farthest from the point of attachment or origin

*synonym* : remote, distant, far-off

(1) **distal** tubule, (2) **distal** phalanx

The **distal** end of the bone is further away from the body's center.

## circulatory

*adj.* relating to the system that moves blood through the body, which includes the heart, arteries, and veins

*synonym* : circulative, rotating

(1) a **circulatory** disease, (2) cause **circulatory** failure shock

The **circulatory** system of the animal is also responsible for heat transportation.

## lymph

*n.* a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading

(1) **lymph** vessel, (2) **lymph** flow

There was a massive swelling of the **lymph** nodes.

## nod

*v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

*synonym* : respond, acknowledge, greet

(1) **nod** at each other, (2) **nod** courteously

She **noded** quietly in response to the question.

## resect

*v.* to surgically remove part or all of an organ, bone, or other tissue

*synonym* : excise, remove, cut out

(1) **resect** tumor, (2) **resect** the colon

The surgeon had to **resect** a portion of the patient's lung due to cancerous growth.

## 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.

## hypothesize

v. to form or present a theory or explanation without sufficient evidence; to speculate

*synonym*: speculate, theorize, conjecture

(1) **hypothesize** as to outcomes, (2) **hypothesize** what could have happened

Scientists **hypothesize** that the new fish species evolved to survive in deep-sea environments.

## obsess

v. to fill the mind of someone continually so that one can't think of anything else

*synonym*: torment, beset, engross

(1) **obsess** over her weight, (2) he is **obsessed** with the fear

He's utterly **obsessed** with his promotion.

## 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.

## conceive

v. to have or develop an idea, a plan, etc. in mind; to become pregnant

*synonym*: imagine, envision, concoct

(1) **conceive** of an idea, (2) **conceive** a child

I can't **conceive** he'd want to harm us.

## preclinical

*adj.* of or relating to the early phases of a disease when an accurate diagnosis is not possible because symptoms of the disease have not yet appeared; of or relating to the first stage of a medical education

(1) **preclinical** diagnosis, (2) **preclinical** safety evaluation

The doctor suspected that the patient was in the **preclinical** stage of Alzheimer's disease.

## tocilizumab

*n.* a medication used to treat inflammatory conditions such as rheumatoid arthritis, giant cell arteritis, and cytokine release syndrome

(1) administer **tocilizumab**, (2) **tocilizumab** treatment

The patient experienced **tocilizumab** side effects which included dizziness and headaches.

## rheumatoid

*n.* a chronic, inflammatory autoimmune disorder that primarily affects the joints, causing pain, swelling, and stiffness; it can also cause damage to other parts of the body

*synonym*: arthritis, joint inflammation, rheumatism

(1) **rheumatoid** disease, (2) **rheumatoid** factor

My aunt suffers from **rheumatoid** arthritis and has trouble moving her joints.

## byproduct

*n.* a secondary or incidental product produced in the manufacture or synthesis of something else

*synonym*: side effect, spinoff, outgrowth

(1) toxic **byproducts**, (2) **byproduct** of technology

The **byproduct** of the energy production process is a large amount of carbon dioxide emissions.

## superhuman

*adj.* possessing abilities or characteristics that exceed those of normal humans; beyond human capacity or capability

*synonym*: supernatural, inhuman, beyond human

(1) **superhuman** beings, (2) **superhuman** effort

The athlete's **superhuman** strength allowed him to lift twice his body weight.

## avenge

*v.* to get revenge or seek retribution for a perceived wrong or injury, often in the form of punishment, retaliation, or vindication

*synonym*: retaliate, revenge, requite

(1) **avenge** a friend, (2) **avenge** an injustice

He sought to **avenge** his brother's death by seeking justice through the legal system.

## sidekick

*n.* a person who is closely associated with and supports another person, especially in a work or professional capacity; a person who is a close and loyal companion  
*synonym* : companion, helper, ally

(1) a detective's **sidekick**, (2) his best friend's **sidekick**  
The superhero's **sidekick** was always there to help him.

## anticancer

*adj.* relating to the prevention, treatment, or cure of cancer; possessing properties that are thought to prevent or combat cancer

*synonym* : cancer-fighting, cancer-preventive

(1) effective **anticancer** drug, (2) **anticancer** therapy  
Scientists have discovered certain plants with **anticancer** properties that could help treat cancer.

## groundbreaking

*adj.* producing fresh findings; using novel techniques  
*synonym* : innovative, revolutionary

(1) **groundbreaking** concept, (2) **groundbreaking** settlement

He has produced **groundbreaking** research on the subject.

## invade

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

*synonym* : intrude, raid, overrun

(1) **invade** other tissues, (2) **invade** his privacy

I have no intention to **invade** your privacy.

## wrath

*n.* extreme anger

*synonym* : fury, irritation, anger

(1) **wrath** of God, (2) a high person's **wrath**

He finally exploded with **wrath** due to the team's repeated failures.

## superpower

*n.* a country or nation that has significant global influence or formidable military, economic, or technological strength; a supernatural ability or force capable of extraordinary feats or feats beyond normal human

capabilities

*synonym* : great power, empire, hegemony

(1) **superpower** country, (2) **superpower** leader

The ability to fly like a bird is often considered a **superpower** in comic books and movies.

## Session 2: Spelling

- |                               |      |   |
|-------------------------------|------|---|
| 1. ins_____ize customary laws | v.   | to establish or make something a part of an institution (= a place such as a university, hospital, etc.)  |
| 2. rhe_____id disease         | n.   | a chronic, inflammatory autoimmune disorder that primarily affects the joints, causing pain, swelling, and stiffness; it can also cause damage to other parts of the body |
| 3. sup_____an beings          | adj. | possessing abilities or characteristics that exceed those of normal humans; beyond human capacity or capability   |
| 4. ly__h flow                 | n.   | a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading                                |
| 5. sup_____an effort          | adj. | possessing abilities or characteristics that exceed those of normal humans; beyond human capacity or capability   |
| 6. co_____ve of an idea       | v.   | to have or develop an idea, a plan, etc. in mind; to become pregnant  |
| 7. a cir_____ry disease       | adj. | relating to the system that moves blood through the body, which includes the heart, arteries, and veins   |
| 8. ins_____ize a system       | v.   | to establish or make something a part of an institution (= a place such as a university, hospital, etc.)  |
| 9. in___e other tissues       | v.   | to enter aggressively into another's territory by military force for conquest and occupation  |

ANSWERS: 1. institutionalize, 2. rheumatoid, 3. superhuman, 4. lymph, 5. superhuman, 6. conceive, 7. circulatory, 8. institutionalize, 9. invade

10. met\_\_\_\_\_ic spreading *adj.* used to describe cancer cells that have spread from the primary site of origin to other parts of the body through the bloodstream or lymphatic system
11. n\_d at each other *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
12. av\_\_\_e a friend *v.* to get revenge or seek retribution for a perceived wrong or injury, often in the form of punishment, retaliation, or vindication
13. di\_\_\_l tubule *adj.* situated away from the center of the body or structure; farthest from the point of attachment or origin
14. su\_\_\_\_\_b to old age *v.* to fail to oppose something, such as desire, pressure, or some other opposing force; to die or suffer badly from the effect of a disease or injury
15. pre\_\_\_\_\_al diagnosis *adj.* of or relating to the early phases of a disease when an accurate diagnosis is not possible because symptoms of the disease have not yet appeared; of or relating to the first stage of a medical education
16. wr\_\_h of God *n.* extreme anger
17. administer toc\_\_\_\_\_ab *n.* a medication used to treat inflammatory conditions such as rheumatoid arthritis, giant cell arteritis, and cytokine release syndrome

ANSWERS: 10. metastatic, 11. nod, 12. avenge, 13. distal, 14. succumb, 15. preclinical, 16. wrath, 17. tocilizumab



18. hyp\_\_\_\_\_ze as to outcomes      *v.* to form or present a theory or explanation without sufficient evidence; to speculate
19. re\_\_\_t the colon      *v.* to surgically remove part or all of an organ, bone, or other tissue
20. ly\_\_h vessel      *n.* a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading
21. gro\_\_\_\_\_ing settlement      *adj.* producing fresh findings; using novel techniques
22. rhe\_\_\_\_\_id factor      *n.* a chronic, inflammatory autoimmune disorder that primarily affects the joints, causing pain, swelling, and stiffness; it can also cause damage to other parts of the body
23. a detective's si\_\_\_\_\_ck      *n.* a person who is closely associated with and supports another person, especially in a work or professional capacity; a person who is a close and loyal companion
24. di\_\_\_l phalanx      *adj.* situated away from the center of the body or structure; farthest from the point of attachment or origin
25. cause cir\_\_\_\_\_ry failure shock      *adj.* relating to the system that moves blood through the body, which includes the heart, arteries, and veins
26. n\_d courteously      *v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation

ANSWERS: 18. hypothesize, 19. resect, 20. lymph, 21. groundbreaking, 22. rheumatoid, 23. sidekick, 24. distal, 25. circulatory, 26. nod

27. toc\_\_\_\_\_ab treatment *n.* a medication used to treat inflammatory conditions such as rheumatoid arthritis, giant cell arteritis, and cytokine release syndrome
28. by\_\_\_\_\_ct of technology *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
29. toxic by\_\_\_\_\_cts *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
30. he is ob\_\_\_sed with the fear *v.* to fill the mind of someone continually so that one can't think of anything else
31. ob\_\_\_s over her weight *v.* to fill the mind of someone continually so that one can't think of anything else
32. re\_\_\_t tumor *v.* to surgically remove part or all of an organ, bone, or other tissue
33. co\_\_\_\_\_en 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
34. su\_\_\_\_\_b to cancer *v.* to fail to oppose something, such as desire, pressure, or some other opposing force; to die or suffer badly from the effect of a disease or injury
35. hyp\_\_\_\_\_ze what could have happened *v.* to form or present a theory or explanation without sufficient evidence; to speculate

ANSWERS: 27. tocilizumab, 28. byproduct, 29. byproduct, 30. obsess, 31. obsess, 32. resect, 33. collagen, 34. succumb, 35. hypothesize



44. met\_\_\_\_\_ic disease *adj.* used to describe cancer cells that have spread from the primary site of origin to other parts of the body through the bloodstream or lymphatic system
45. his best friend's si\_\_\_\_\_ck *n.* a person who is closely associated with and supports another person, especially in a work or professional capacity; a person who is a close and loyal companion
46. co\_\_\_\_\_ve a child *v.* to have or develop an idea, a plan, etc. in mind; to become pregnant
47. co\_\_\_\_\_en 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
48. ant\_\_\_\_\_er therapy *adj.* relating to the prevention, treatment, or cure of cancer; possessing properties that are thought to prevent or combat cancer

ANSWERS: 44. metastatic, 45. sidekick, 46. conceive, 47. collagen, 48. anticancer

## Session 3: Fill in the Blanks

1. The superhero's \_\_\_\_\_ was always there to help him.  
*n.* a person who is closely associated with and supports another person, especially in a work or professional capacity; a person who is a close and loyal companion
2. My aunt suffers from \_\_\_\_\_ arthritis and has trouble moving her joints.  
*n.* a chronic, inflammatory autoimmune disorder that primarily affects the joints, causing pain, swelling, and stiffness; it can also cause damage to other parts of the body
3. \_\_\_\_\_ cancer has spread from its original site to other body parts.  
*adj.* used to describe cancer cells that have spread from the primary site of origin to other parts of the body through the bloodstream or lymphatic system
4. He's utterly \_\_\_\_\_ with his promotion.  
*v.* to fill the mind of someone continually so that one can't think of anything else
5. He finally exploded with \_\_\_\_\_ due to the team's repeated failures.  
*n.* extreme anger
6. I have no intention to \_\_\_\_\_ your privacy.  
*v.* to enter aggressively into another's territory by military force for conquest and occupation
7. Scientists have discovered certain plants with \_\_\_\_\_ properties that could help treat cancer.  
*adj.* relating to the prevention, treatment, or cure of cancer; possessing properties that are thought to prevent or combat cancer

ANSWERS: 1. sidekick, 2. rheumatoid, 3. Metastatic, 4. obsessed, 5. wrath, 6. invade, 7. anticancer

8. The surgeon had to \_\_\_\_\_ a portion of the patient's lung due to cancerous growth.
- v.* to surgically remove part or all of an organ, bone, or other tissue
9. I can't \_\_\_\_\_ he'd want to harm us.
- v.* to have or develop an idea, a plan, etc. in mind; to become pregnant
10. The athlete's \_\_\_\_\_ strength allowed him to lift twice his body weight.
- adj.* possessing abilities or characteristics that exceed those of normal humans; beyond human capacity or capability
11. 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
12. The \_\_\_\_\_ end of the bone is further away from the body's center.
- adj.* situated away from the center of the body or structure; farthest from the point of attachment or origin
13. He has produced \_\_\_\_\_ research on the subject.
- adj.* producing fresh findings; using novel techniques
14. The patient experienced \_\_\_\_\_ side effects which included dizziness and headaches.
- n.* a medication used to treat inflammatory conditions such as rheumatoid arthritis, giant cell arteritis, and cytokine release syndrome
15. He sought to \_\_\_\_\_ his brother's death by seeking justice through the legal system.
- v.* to get revenge or seek retribution for a perceived wrong or injury, often in the form of punishment, retaliation, or vindication

ANSWERS: 8. resect, 9. conceive, 10. superhuman, 11. collagen, 12. distal, 13. groundbreaking, 14. tocilizumab, 15. avenge

16. The new policy aims to \_\_\_\_\_ the use of renewable energy sources.
- v.* to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
17. She \_\_\_\_\_ quietly in response to the question.
- v.* to lower and raise one's head, sometimes several times, as to show approval, agreement, greeting, or confirmation
18. The ability to fly like a bird is often considered a \_\_\_\_\_ in comic books and movies.
- n.* a country or nation that has significant global influence or formidable military, economic, or technological strength; a supernatural ability or force capable of extraordinary feats or feats beyond normal human capabilities
19. Scientists \_\_\_\_\_ that the new fish species evolved to survive in deep-sea environments.
- v.* to form or present a theory or explanation without sufficient evidence; to speculate
20. The \_\_\_\_\_ of the energy production process is a large amount of carbon dioxide emissions.
- n.* a secondary or incidental product produced in the manufacture or synthesis of something else
21. He finally \_\_\_\_\_ to temptation.
- v.* to fail to oppose something, such as desire, pressure, or some other opposing force; to die or suffer badly from the effect of a disease or injury
22. There was a massive swelling of the \_\_\_\_\_ nodes.
- n.* a colorless fluid containing white blood cells that carry waste matter away from body tissue and help to prevent infections from spreading

ANSWERS: 16. institutionalize, 17. nodded, 18. superpower, 19. hypothesize, 20. byproduct, 21. succumbed, 22. lymph

23. The \_\_\_\_\_ system of the animal is also responsible for heat transportation.

*adj.* relating to the system that moves blood through the body, which includes the heart, arteries, and veins

24. The doctor suspected that the patient was in the \_\_\_\_\_ stage of Alzheimer's disease.

*adj.* of or relating to the early phases of a disease when an accurate diagnosis is not possible because symptoms of the disease have not yet appeared; of or relating to the first stage of a medical education

ANSWERS: 23. circulatory, 24. preclinical