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## Vocabulary Builder Reference from...

*Hyunsoo Joshua No: How does chemotherapy work?*

| TED Talk

[https://www.ted.com/talks/hyunsoo\\_joshua\\_no\\_how\\_does\\_chemotherapy\\_work](https://www.ted.com/talks/hyunsoo_joshua_no_how_does_chemotherapy_work)

### Advanced Words Only

#### IMPORTANT

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## Session 1: Word List

### trench

*n.* a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water

*synonym* : aqueduct, ditch, channel

(1) deep-sea **trench**, (2) **trench** excavator

A **trench** was being dug alongside the road by workers.

### poisonous

*adj.* containing or producing toxic substances; harmful or dangerous to living beings, often causing illness, injury, or death; capable of causing serious harm or destruction

*synonym* : toxic, venomous, deadly

(1) **poisonous** plants, (2) **poisonous** chemicals

Some species of **poisonous snakes** can be deadly to humans if bitten.

### mustard

*n.* a yellow or brown condiment that tastes spicy made from the seeds of various plants; (adjective) between yellow and brown

*synonym* : condiment, sauce, spice

(1) **mustard** leaf, (2) black **mustard** seed

He had to endure the **mustard** gas attack during the war.

## blister

*n.* a small, fluid-filled bubble on the skin caused by friction, burning, or other skin irritation; can also refer to a similar bubble found in other materials; (verb) to become covered with blisters or to cause blisters to form; to criticize or rebuke severely

*synonym* : sore, vesicle, pustule

(1) **blister** after walking for miles, (2) **blister** treatment

The new hiking shoes gave me a **blister** on my heel after just a few miles of walking.

## antidote

*n.* a chemical substance or remedy that stops or controls the effects of a poison or disease

*synonym* : remedy, treatment, restorative

(1) the **antidote** to the poison, (2) the **antidote** for aging

Knowledge is the **antidote** to fear.

## irrevocably

*adv.* in a way that is impossible to be changed, reversed, or recovered

*synonym* : decisively, permanently, definitely

(1) unconditionally and **irrevocably**, (2) change **irrevocably**

The evolution of civilization has **irrevocably** improved the quality of human life.

## halting

*adj.* hesitant or wavering in speech or action; faltering; stopping or pausing repeatedly and intermittently

*synonym* : stuttering, hesitant, faltering

(1) **halting** speech, (2) **halting** progress

The negotiations between the two countries were proceeding in a **halting** manner.

## atrocities

*n.* brutal act; an extremely wicked or cruel act

*synonym* : evil, horror, iniquity

(1) commit **atrocities**, (2) cold-blooded **atrocities**

The **atrocities** of the war left many children orphaned.

## inject

*v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe

(= small tube)

*synonym*: shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

## cytotoxin

*n.* a poisonous substance that specifically targets and damages or kills cells, often associated with bacterial or viral infections

*synonym*: chemotoxin, poison, venom

(1) **cytotoxin** release, (2) bacterial **cytotoxin**

The snake's **cytotoxin** attacks the nervous system of its prey.

## 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.

## hallmark

*n.* a distinctive characteristic or attribute of a person or thing

*synonym*: symbol, authentication, indication

(1) the **hallmark** of a good scientist, (2) the **hallmark** of modern life

A clear and simple expression is the **hallmark** of good writing.

## alkyl

*n.* a group of organic compounds that contain a single bond between a carbon atom and a hydrogen atom and are often used as building blocks for more complex organic molecules

(1) **alkyl** chain, (2) **alkyl** halide

The lab used an **alkyl** compound in their experiment to test its properties.

## 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**.

## helix

*n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule

*synonym*: coil, spiral, twist

(1) **helix** structure, (2) alpha **helix**

The DNA molecule is shaped like a double **helix**.

## tubule

*n.* a small, tube-like structure; a minute duct or canal in a plant or animal body

*synonym*: tube, canal, duct

(1) **tubule** structure, (2) renal **tubule**

The kidney comprises tiny **tubules** that filter waste from the bloodstream.

## stabilize

*v.* to become or cause to become steady or unlikely to give way

*synonym*: brace, steady, secure

(1) **stabilize** prices, (2) **stabilize** blood sugar levels

The raising of interest rates **stabilizes** the inflation rate.

## follicle

*n.* a small sac or cavity in the body, especially in the skin or scalp, that contains and nourishes a hair or feather; a small gland or sac that produces and releases a bodily secretion

(1) **follicle** cell, (2) damaged **follicle**

The pigments in your hair **follicles** determine the color of your hair.

## gastrointestinal

*adj.* relating to the stomach and intestines, particularly about the digestive system or related disorders

*synonym*: digestive, intestinal, stomach

(1) **gastrointestinal** disorders, (2) **gastrointestinal** symptoms

Certain foods can cause **gastrointestinal** problems if eaten in excess.

## chemo

*n.* short for chemotherapy, a treatment for cancer that uses drugs to destroy cancer cells

*synonym*: chemotherapy, antineoplastic

(1) **chemo** patient, (2) **chemo-radiotherapy**

The side effects of **chemo**, such as nausea and hair loss, were a major concern for the patient.

## infertile

*adj.* unable to grow crops or sustain life; not able to produce offspring or offspring that are viable

*synonym*: barren, sterile, unproductive

(1) **infertile** woman, (2) **infertile** land

The soil in the desert is **infertile**, making it difficult to grow crops.

## vomit

*v.* to eject food, blood, etc., from the stomach through the mouth; (noun) the matter ejected from the stomach through the mouth

*synonym*: puke, throw up, spew

(1) **vomit** abuse, (2) **vomit** after ingesting

She felt sick and had to run to the bathroom to **vomit**.

## constrict

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

*synonym*: squeeze, compress, tighten

(1) **constrict** blood vessels, (2) **constrict** freedom

The snake's muscles began to **constrict** around its prey.

## testicle

*n.* one of the two oval-shaped organs in men that produce sperm and testosterone; in animals, the equivalent organ responsible for producing sperm and often also regulating testosterone levels

*synonym*: ballock, gonad, ball

(1) **testicle** injury, (2) swollen **testicles**

The athlete was hit in the **testicle** during the game and had

to be removed.

## myeloid

*adj.* relating to or arising from bone marrow; pertaining to certain types of white blood cells, such as granulocytes and monocytes, which are formed in the bone marrow

*synonym* : marrow, hematopoietic, granulocytic

(1) **myeloid** leukemia, (2) **myeloid** sarcoma

The **myeloid** cells in the bone marrow are responsible for producing red and white blood cells.

## remission

*n.* a period of time when a disease or condition is no longer present or active; a lessening or reduction of symptoms or intensity; forgiveness or pardon for sins or debts

*synonym* : forgiveness, amnesty, absolution

(1) complete **remission**, (2) clinical **remission**

The cancer patient was delighted to hear that their disease was in **remission**.

## Session 2: Spelling

1. ch\_\_o patient *n.* short for chemotherapy, a treatment for cancer that uses drugs to destroy cancer cells
2. my\_\_\_\_d leukemia *adj.* relating to or arising from bone marrow; pertaining to certain types of white blood cells, such as granulocytes and monocytes, which are formed in the bone marrow
3. alpha he\_\_x *n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
4. complete re\_\_\_\_on *n.* a period of time when a disease or condition is no longer present or active; a lessening or reduction of symptoms or intensity; forgiveness or pardon for sins or debts
5. blo\_\_\_\_am to the brain *n.* the blood flowing through the body
6. commit at\_\_\_\_ty *n.* brutal act; an extremely wicked or cruel act
7. unconditionally and irr\_\_\_\_ly *adv.* in a way that is impossible to be changed, reversed, or recovered
8. po\_\_\_\_us chemicals *adj.* containing or producing toxic substances; harmful or dangerous to living beings, often causing illness, injury, or death; capable of causing serious harm or destruction

ANSWERS: 1. chemo, 2. myeloid, 3. helix, 4. remission, 5. bloodstream, 6. atrocity, 7. irrevocably, 8. poisonous

9. deep-sea tr\_\_\_h *n.* a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water
10. bacterial cy\_\_\_\_\_in *n.* a poisonous substance that specifically targets and damages or kills cells, often associated with bacterial or viral infections
11. st\_\_\_\_\_ze blood sugar levels *v.* to become or cause to become steady or unlikely to give way
12. vo\_\_t abuse *v.* to eject food, blood, etc., from the stomach through the mouth; (noun) the matter ejected from the stomach through the mouth
13. the ha\_\_\_\_\_rk of modern life *n.* a distinctive characteristic or attribute of a person or thing
14. he\_\_x structure *n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
15. ha\_\_\_\_\_g speech *adj.* hesitant or wavering in speech or action; faltering; stopping or pausing repeatedly and intermittently
16. tu\_\_\_e structure *n.* a small, tube-like structure; a minute duct or canal in a plant or animal body
17. damaged fo\_\_\_\_\_le *n.* a small sac or cavity in the body, especially in the skin or scalp, that contains and nourishes a hair or feather; a small gland or sac that produces and releases a bodily secretion

ANSWERS: 9. trench, 10. cytotoxin, 11. stabilize, 12. vomit, 13. hallmark, 14. helix, 15. halting, 16. tubule, 17. follicle



18. vo\_\_t after ingesting      *v.* to eject food, blood, etc., from the stomach through the mouth; (noun) the matter ejected from the stomach through the mouth
19. gas\_\_\_\_\_nal disorders      *adj.* relating to the stomach and intestines, particularly about the digestive system or related disorders
20. fo\_\_\_\_\_le cell      *n.* a small sac or cavity in the body, especially in the skin or scalp, that contains and nourishes a hair or feather; a small gland or sac that produces and releases a bodily secretion
21. in\_\_\_\_\_le land      *adj.* unable to grow crops or sustain life; not able to produce offspring or offspring that are viable
22. cy\_\_\_\_\_in release      *n.* a poisonous substance that specifically targets and damages or kills cells, often associated with bacterial or viral infections
23. my\_\_\_\_\_d sarcoma      *adj.* relating to or arising from bone marrow; pertaining to certain types of white blood cells, such as granulocytes and monocytes, which are formed in the bone marrow
24. st\_\_\_\_\_ze prices      *v.* to become or cause to become steady or unlikely to give way
25. clinical re\_\_\_\_\_on      *n.* a period of time when a disease or condition is no longer present or active; a lessening or reduction of symptoms or intensity; forgiveness or pardon for sins or debts

ANSWERS: 18. vomit, 19. gastrointestinal, 20. follicle, 21. infertile, 22. cytotoxin, 23. myeloid, 24. stabilize, 25. remission

26. blo\_\_\_\_\_am in an artery *n.* the blood flowing through the body
27. renal tu\_\_\_e *n.* a small, tube-like structure; a minute duct or canal in a plant or animal body
28. bl\_\_\_\_\_r after walking for miles *n.* a small, fluid-filled bubble on the skin caused by friction, burning, or other skin irritation; can also refer to a similar bubble found in other materials; (verb) to become covered with blisters or to cause blisters to form; to criticize or rebuke severely
29. the an\_\_\_\_\_te for aging *n.* a chemical substance or remedy that stops or controls the effects of a poison or disease
30. ha\_\_\_\_\_g progress *adj.* hesitant or wavering in speech or action; faltering; stopping or pausing repeatedly and intermittently
31. tr\_\_\_h excavator *n.* a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water
32. te\_\_\_\_\_le injury *n.* one of the two oval-shaped organs in men that produce sperm and testosterone; in animals, the equivalent organ responsible for producing sperm and often also regulating testosterone levels
33. mu\_\_\_\_\_d leaf *n.* a yellow or brown condiment that tastes spicy made from the seeds of various plants; (adjective) between yellow and brown

ANSWERS: 26. bloodstream, 27. tubule, 28. blister, 29. antidote, 30. halting, 31. trench, 32. testicle, 33. mustard

34. in\_\_\_t under the skin      *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
35. me\_\_\_\_\_al chemistry      *adj.* of or relating to the treatment or cure of disease
36. al\_\_l halide      *n.* a group of organic compounds that contain a single bond between a carbon atom and a hydrogen atom and are often used as building blocks for more complex organic molecules
37. po\_\_\_\_\_us plants      *adj.* containing or producing toxic substances; harmful or dangerous to living beings, often causing illness, injury, or death; capable of causing serious harm or destruction
38. bl\_\_\_\_\_r treatment      *n.* a small, fluid-filled bubble on the skin caused by friction, burning, or other skin irritation; can also refer to a similar bubble found in other materials; (verb) to become covered with blisters or to cause blisters to form; to criticize or rebuke severely
39. the an\_\_\_\_\_te to the poison      *n.* a chemical substance or remedy that stops or controls the effects of a poison or disease
40. ch\_\_o-radiotherapy      *n.* short for chemotherapy, a treatment for cancer that uses drugs to destroy cancer cells
41. black mu\_\_\_\_\_d seed      *n.* a yellow or brown condiment that tastes spicy made from the seeds of various plants; (adjective) between yellow and brown

ANSWERS: 34. inject, 35. medicinal, 36. alkyl, 37. poisonous, 38. blister, 39. antidote, 40. chemo, 41. mustard

42. swollen te\_\_\_\_les *n.* one of the two oval-shaped organs in men that produce sperm and testosterone; in animals, the equivalent organ responsible for producing sperm and often also regulating testosterone levels
43. traditional me\_\_\_\_\_al *adj.* of or relating to the treatment or cure of disease
44. al\_\_l chain *n.* a group of organic compounds that contain a single bond between a carbon atom and a hydrogen atom and are often used as building blocks for more complex organic molecules
45. in\_\_\_t a personal opinion into a debate *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
46. gas\_\_\_\_\_nal symptoms *adj.* relating to the stomach and intestines, particularly about the digestive system or related disorders
47. cold-blooded at\_\_\_\_\_ty *n.* brutal act; an extremely wicked or cruel act
48. co\_\_\_\_\_ct blood vessels *v.* to make something narrow or tight, often restricting movement or flow; to become narrow or tighter
49. change irr\_\_\_\_\_ly *adv.* in a way that is impossible to be changed, reversed, or recovered
50. co\_\_\_\_\_ct freedom *v.* to make something narrow or tight, often restricting movement or flow; to become narrow or tighter

ANSWERS: 42. testicle, 43. medicinal, 44. alkyl, 45. inject, 46. gastrointestinal, 47. atrocity, 48. constrict, 49. irrevocably, 50. constrict

51. the ha\_\_\_\_rk of a good scientist

*n.* a distinctive characteristic or attribute of a person or thing

52. in\_\_\_\_\_le woman

*adj.* unable to grow crops or sustain life; not able to produce offspring or offspring that are viable

ANSWERS: 51. hallmark, 52. infertile

## Session 3: Fill in the Blanks

1. The cancer patient was delighted to hear that their disease was in \_\_\_\_\_.  
*n.* a period of time when a disease or condition is no longer present or active; a lessening or reduction of symptoms or intensity; forgiveness or pardon for sins or debts
2. He had to endure the \_\_\_\_\_ gas attack during the war.  
*n.* a yellow or brown condiment that tastes spicy made from the seeds of various plants; (adjective) between yellow and brown
3. The \_\_\_\_\_ of the war left many children orphaned.  
*n.* brutal act; an extremely wicked or cruel act
4. 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
5. Certain foods can cause \_\_\_\_\_ problems if eaten in excess.  
*adj.* relating to the stomach and intestines, particularly about the digestive system or related disorders
6. The \_\_\_\_\_ properties of this herb have been known to help with various ailments.  
*adj.* of or relating to the treatment or cure of disease
7. The new hiking shoes gave me a \_\_\_\_\_ on my heel after just a few miles of walking.  
*n.* a small, fluid-filled bubble on the skin caused by friction, burning, or other skin irritation; can also refer to a similar bubble found in other materials; (verb) to become covered with blisters or to cause blisters to form; to criticize or rebuke severely

ANSWERS: 1. remission, 2. mustard, 3. atrocity, 4. constrict, 5. gastrointestinal, 6. medicinal, 7. blister

8. A \_\_\_\_\_ was being dug alongside the road by workers.  
*n.* a long, deep ditch made in the ground, usually parallel to a plate boundary and marking a subduction zone; a long ditch built in the ground for carrying away water
9. The soil in the desert is \_\_\_\_\_ making it difficult to grow crops.  
*adj.* unable to grow crops or sustain life; not able to produce offspring or offspring that are viable
10. The DNA molecule is shaped like a double \_\_\_\_\_.  
*n.* a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
11. Some species of \_\_\_\_\_ can be deadly to humans if bitten.  
*adj.* containing or producing toxic substances; harmful or dangerous to living beings, often causing illness, injury, or death; capable of causing serious harm or destruction
12. A clear and simple expression is the \_\_\_\_\_ of good writing.  
*n.* a distinctive characteristic or attribute of a person or thing
13. The snake's \_\_\_\_\_ attacks the nervous system of its prey.  
*n.* a poisonous substance that specifically targets and damages or kills cells, often associated with bacterial or viral infections
14. The evolution of civilization has \_\_\_\_\_ improved the quality of human life.  
*adv.* in a way that is impossible to be changed, reversed, or recovered
15. The lab used an \_\_\_\_\_ compound in their experiment to test its properties.  
*n.* a group of organic compounds that contain a single bond between a carbon atom and a hydrogen atom and are often used as building blocks for more complex organic molecules

ANSWERS: 8. trench, 9. infertile, 10. helix, 11. poisonous snakes, 12. hallmark, 13. cytotoxin, 14. irrevocably, 15. alkyl

16. The pigments in your hair \_\_\_\_\_ determine the color of your hair.
- n.* a small sac or cavity in the body, especially in the skin or scalp, that contains and nourishes a hair or feather; a small gland or sac that produces and releases a bodily secretion
17. Knowledge is the \_\_\_\_\_ to fear.
- n.* a chemical substance or remedy that stops or controls the effects of a poison or disease
18. The kidney comprises tiny \_\_\_\_\_ that filter waste from the bloodstream.
- n.* a small, tube-like structure; a minute duct or canal in a plant or animal body
19. The \_\_\_\_\_ cells in the bone marrow are responsible for producing red and white blood cells.
- adj.* relating to or arising from bone marrow; pertaining to certain types of white blood cells, such as granulocytes and monocytes, which are formed in the bone marrow
20. She felt sick and had to run to the bathroom to \_\_\_\_\_.
- v.* to eject food, blood, etc., from the stomach through the mouth; (noun) the matter ejected from the stomach through the mouth
21. The negotiations between the two countries were proceeding in a \_\_\_\_\_ manner.
- adj.* hesitant or wavering in speech or action; faltering; stopping or pausing repeatedly and intermittently
22. Cancer cells are often carried throughout the body by the \_\_\_\_\_.
- n.* the blood flowing through the body

ANSWERS: 16. follicles, 17. antidote, 18. tubules, 19. myeloid, 20. vomit, 21. halting, 22. bloodstream



23. The raising of interest rates \_\_\_\_\_ the inflation rate.
- v.* to become or cause to become steady or unlikely to give way
24. The side effects of \_\_\_\_\_ such as nausea and hair loss, were a major concern for the patient.
- n.* short for chemotherapy, a treatment for cancer that uses drugs to destroy cancer cells
25. The athlete was hit in the \_\_\_\_\_ during the game and had to be removed.
- n.* one of the two oval-shaped organs in men that produce sperm and testosterone; in animals, the equivalent organ responsible for producing sperm and often also regulating testosterone levels
26. Let's try to \_\_\_\_\_ a bit of enthusiasm into your performance.
- v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

ANSWERS: 23. stabilizes, 24. chemo, 25. testicle, 26. inject