

Englist.me



Vocabulary Builder Reference from...

Andrea M. Henle: How CRISPR lets you edit DNA | TED Talk

https://www.ted.com/talks/andrea_m_henle_how_crispr_lets_you_edit_dna

Advanced Words Only

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

- trait** *n.* a particular feature of your nature
synonym: attribute, feature, quality
(1) chemical **trait**, (2) personality **traits**
Multiple genes may influence behavioral **traits** concurrently.
- marvel** *n.* someone something that causes feelings of wonder or surprise
synonym: wonder, phenomenon, amazement
(1) a **marvel** of beauty, (2) technical **marvel**
The space shuttle is a modern engineering **marvel**.
- archaea** *n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
synonym: microbe, microorganism
(1) **archaea** microorganism, (2) thermophile **archaea**
The study of **archaea** is important for understanding the origins of life on Earth
- 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.

snippet

n. a small piece or brief extract of something
synonym: fragment, excerpt, brief

(1) **snippet** of wisdom, (2) code **snippet**

The journalist saved a **snippet** of the interview for later reference.

interspace

n. the space between objects or parts, especially between two closely positioned objects; an interval or gap between two things

synonym: gap, interval, space

(1) **interspace** for natural light, (2) **interspace** between teeth

The surgeon made an incision in the **interspace** between two ribs to access the patient's lungs.

palindrome

n. a word, phrase, or sequence of characters that reads the same backward as forward, such as "racecar" or "level"; (of medicine and genetics) a sequence of DNA or RNA that is the same when read from 5' (five prime, denoting ends of DNA or RNA) to 3' on one strand and from 5' to 3' on the complementary strand

synonym: word palindrome, reversible, mirror-image word

(1) **palindrome** phrase, (2) **palindrome** number

The word "deified" is an example of a **palindrome**, where it reads the same backward as it does forward.

chop

v. to cut something into pieces with a sharp tool, such as a knife

synonym: cut, hack, slice

(1) **chop** wood, (2) **chop** a meet with a knife

The cook **chopped** the vegetables for the soup.

scout

n. a person or group sent out to obtain information, gather intelligence, or make observations, typically in a military

context; a person or group sent out to explore or prospect for new opportunities, resources, or locations

synonym : scoutmaster, explorer, surveyor

(1) boy **scout**, (2) **scout** troop

The company sent a **scout** to explore new business opportunities in the overseas market.

latch

n. a device for holding a door or gate closed, typically a sliding bar or bolt

synonym : lock, catch, bolt

(1) set the **latch**, (2) **latch** mechanism

The **latch** on the gate was broken, so the cows got loose.

hijack

v. to seize control of an airplane or other vehicle during an operation, especially with violence

synonym : commandeer, seize, pirate

(1) **hijack** a helicopter, (2) **hijack** a phone number

He made a desperate effort to **hijack** an airliner.

typo

n. a mistake made in typing or the reproduction of a text

synonym : error, mistake, misprint

(1) full of **typos**, (2) **typo-free** resume

I noticed a **typo** in the company's annual report, stating the wrong profit margin.

snip

v. to trim or cut something, especially with scissors or shears; to remove a small part or piece from something with a quick cut or slice

synonym : clip, trim, cut

(1) **snip** a lock of hair, (2) **snip** the wire

I must **snip** the loose thread on my shirt before it becomes a bigger problem.

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.

nuclease

n. an enzyme that breaks down nucleic acids, such as DNA and RNA, into smaller fragments by breaking the bonds between nucleotides

(1) restriction **nuclease**, (2) DNA **nuclease**

The **nuclease** enzyme is important for DNA replication and repair.

homologous

adj. having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry

synonym: corresponding, analogous, similar

(1) **homologous** genes, (2) **homologous** structures

Homologous recombination is a process that can occur during DNA repair.

blueprint

n. a photographic print of an early plan for a building or machine

synonym: draft, prototype, sketch

(1) **blueprint** for economic reform, (2) architect's **blueprint**

A business plan is a **blueprint** for your success.

cyst

n. a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment

synonym: abscess, sac, lump

(1) **cyst** removal, (2) ovarian **cyst**

The patient was sent for an X-ray to determine the cause of the **cyst** in her abdomen.

fibrosis

n. the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can

affect various organs and tissues of the body, leading to impaired function and potential organ failure

synonym : scarring, hardening, fibrotic disease

(1) **fibrosis** diagnosis, (2) pulmonary **fibrosis**

The doctor diagnosed him with cardiac **fibrosis**, which put him at risk for heart failure.

sickle

n. a tool consisting of a short curved blade with a handle, used for cutting grass or grain; also a symbol associated with harvest or death

synonym : scythe, crescent, cutter

(1) **sickle-shaped** moon, (2) harvest **sickle**

The blade of the **sickle** glinted in the sunlight as he swung it back and forth.

anemia

n. a medical condition in which the body lacks enough red blood cells or hemoglobin, causing fatigue, weakness, or difficulty breathing; a lack of vitality or liveliness in something

synonym : bloodlessness, pallor, weakness

(1) **anemia** symptoms, (2) **anemia** disease

The doctor diagnosed the patient with **anemia** due to a lack of iron in their blood.

mosquito

n. a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria

synonym : insect, bug, flea

(1) **mosquito** bite, (2) **mosquito** repellent

A stagnant water area are breeding ground for **mosquitos**.

reprogram

v. to modify or recreate a program

synonym : recreate, modify, revamp

(1) **reprogram** a device, (2) **reprogram** a database

He **reprogrammed** the computer's operating system to remove the safeguard.

Session 2: Spelling

- | | |
|----------------------------------|--|
| 1. bl_____nt for economic reform | <i>n.</i> a photographic print of an early plan for a building or machine |
| 2. in___t under the skin | <i>v.</i> 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) |
| 3. hi___k a phone number | <i>v.</i> to seize control of an airplane or other vehicle during an operation, especially with violence |
| 4. a ma___l of beauty | <i>n.</i> someone something that causes feelings of wonder or surprise |
| 5. t__o-free resume | <i>n.</i> a mistake made in typing or the reproduction of a text |
| 6. boy sc__t | <i>n.</i> a person or group sent out to obtain information, gather intelligence, or make observations, typically in a military context; a person or group sent out to explore or prospect for new opportunities, resources, or locations |
| 7. in___e his privacy | <i>v.</i> to enter aggressively into another's territory by military force for conquest and occupation |
| 8. code sn_____t | <i>n.</i> a small piece or brief extract of something |
| 9. mo_____to bite | <i>n.</i> a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria |

ANSWERS: 1. blueprint, 2. inject, 3. hijack, 4. marvel, 5. typo, 6. scout, 7. invade, 8. snippet, 9. mosquito

10. re_____am a database *v.* to modify or recreate a program
11. an___a disease *n.* a medical condition in which the body lacks enough red blood cells or hemoglobin, causing fatigue, weakness, or difficulty breathing; a lack of vitality or liveliness in something
12. in___e other tissues *v.* to enter aggressively into another's territory by military force for conquest and occupation
13. la__h mechanism *n.* a device for holding a door or gate closed, typically a sliding bar or bolt
14. hi___k a helicopter *v.* to seize control of an airplane or other vehicle during an operation, especially with violence
15. re_____am a device *v.* to modify or recreate a program
16. fi_____is diagnosis *n.* the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
17. chemical tr__t *n.* a particular feature of your nature
18. hom_____us genes *adj.* having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry

ANSWERS: 10. reprogram, 11. anemia, 12. invade, 13. latch, 14. hijack, 15. reprogram, 16. fibrosis, 17. trait, 18. homologous

19. technical ma___l *n.* someone something that causes feelings of wonder or surprise
20. pulmonary fi_____is *n.* the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
21. thermophile ar_____a *n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
22. DNA nu_____se *n.* an enzyme that breaks down nucleic acids, such as DNA and RNA, into smaller fragments by breaking the bonds between nucleotides
23. hom_____us structures *adj.* having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry
24. int_____ce between teeth *n.* the space between objects or parts, especially between two closely positioned objects; an interval or gap between two things
25. set the la__h *n.* a device for holding a door or gate closed, typically a sliding bar or bolt

ANSWERS: 19. marvel, 20. fibrosis, 21. archaea, 22. nuclease, 23. homologous, 24. interspace, 25. latch

26. 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)
27. si___e-shaped moon *n.* a tool consisting of a short curved blade with a handle, used for cutting grass or grain; also a symbol associated with harvest or death
28. ovarian c___t *n.* a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
29. c___t removal *n.* a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment
30. pal_____me phrase *n.* a word, phrase, or sequence of characters that reads the same backward as forward, such as "racecar" or "level"; (of medicine and genetics) a sequence of DNA or RNA that is the same when read from 5' (five prime, denoting ends of DNA or RNA) to 3' on one strand and from 5' to 3' on the complementary strand
31. sc___t troop *n.* a person or group sent out to obtain information, gather intelligence, or make observations, typically in a military context; a person or group sent out to explore or prospect for new opportunities, resources, or locations

ANSWERS: 26. inject, 27. sickle, 28. cyst, 29. cyst, 30. palindrome, 31. scout

32. ar____a microorganism *n.* a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
33. architect's bl____nt *n.* a photographic print of an early plan for a building or machine
34. harvest si____e *n.* a tool consisting of a short curved blade with a handle, used for cutting grass or grain; also a symbol associated with harvest or death
35. full of t____os *n.* a mistake made in typing or the reproduction of a text
36. c__p a meet with a knife *v.* to cut something into pieces with a sharp tool, such as a knife
37. sn____t of wisdom *n.* a small piece or brief extract of something
38. restriction nu____se *n.* an enzyme that breaks down nucleic acids, such as DNA and RNA, into smaller fragments by breaking the bonds between nucleotides
39. personality tr__ts *n.* a particular feature of your nature
40. an____a symptoms *n.* a medical condition in which the body lacks enough red blood cells or hemoglobin, causing fatigue, weakness, or difficulty breathing; a lack of vitality or liveliness in something
41. int____ce for natural light *n.* the space between objects or parts, especially between two closely positioned objects; an interval or gap between two things

ANSWERS: 32. archaea, 33. blueprint, 34. sickle, 35. typo, 36. chop, 37. snippet, 38. nuclease, 39. trait, 40. anemia, 41. interspace

42. c__p wood
43. pal_____me number
44. mo_____to repellent
45. s__p a lock of hair
46. s__p the wire
- v.* to cut something into pieces with a sharp tool, such as a knife
- n.* a word, phrase, or sequence of characters that reads the same backward as forward, such as "racecar" or "level"; (of medicine and genetics) a sequence of DNA or RNA that is the same when read from 5' (five prime, denoting ends of DNA or RNA) to 3' on one strand and from 5' to 3' on the complementary strand
- n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
- v.* to trim or cut something, especially with scissors or shears; to remove a small part or piece from something with a quick cut or slice
- v.* to trim or cut something, especially with scissors or shears; to remove a small part or piece from something with a quick cut or slice

ANSWERS: 42. chop, 43. palindrome, 44. mosquito, 45. snip, 46. snip

Session 3: Fill in the Blanks

1. The journalist saved a _____ of the interview for later reference.
n. a small piece or brief extract of something

2. 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)

3. Multiple genes may influence behavioral _____ concurrently.
n. a particular feature of your nature

4. The cook _____ the vegetables for the soup.
v. to cut something into pieces with a sharp tool, such as a knife

5. The space shuttle is a modern engineering _____.
n. someone something that causes feelings of wonder or surprise

6. The doctor diagnosed the patient with _____ due to a lack of iron in their blood.
n. a medical condition in which the body lacks enough red blood cells or hemoglobin, causing fatigue, weakness, or difficulty breathing; a lack of vitality or liveliness in something

7. I have no intention to _____ your privacy.
v. to enter aggressively into another's territory by military force for conquest and occupation

8. The patient was sent for an X-ray to determine the cause of the _____ in her abdomen.
n. a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually benign but can also be cancerous and require treatment

ANSWERS: 1. snippet, 2. inject, 3. traits, 4. chopped, 5. marvel, 6. anemia, 7. invade, 8. cyst

9. _____ recombination is a process that can occur during DNA repair.
adj. having the same or similar structure, position, or function, particularly in different species or organisms; related by common ancestry
10. I must _____ the loose thread on my shirt before it becomes a bigger problem.
v. to trim or cut something, especially with scissors or shears; to remove a small part or piece from something with a quick cut or slice
11. The _____ enzyme is important for DNA replication and repair.
n. an enzyme that breaks down nucleic acids, such as DNA and RNA, into smaller fragments by breaking the bonds between nucleotides
12. The study of _____ is important for understanding the origins of life on Earth
n. a group of single-celled microorganisms distinguished from bacteria by their unique cell wall structure and biochemical characteristics, which are found in extreme environments such as hot springs and salt flats
13. The surgeon made an incision in the _____ between two ribs to access the patient's lungs.
n. the space between objects or parts, especially between two closely positioned objects; an interval or gap between two things
14. A business plan is a _____ for your success.
n. a photographic print of an early plan for a building or machine
15. The _____ on the gate was broken, so the cows got loose.
n. a device for holding a door or gate closed, typically a sliding bar or bolt
16. The word "deified" is an example of a _____ where it reads the same backward as it does forward.
n. a word, phrase, or sequence of characters that reads the same backward as forward, such as "racecar" or "level"; (of medicine and genetics) a sequence of DNA or RNA that is the same when read from 5' (five prime, denoting ends of DNA or RNA) to 3' on one strand and from 5' to 3' on the complementary strand

ANSWERS: 9. Homologous, 10. snip, 11. nuclease, 12. archaea, 13. interspace, 14.

blueprint, 15. latch, 16. palindrome,

17. He made a desperate effort to _____ an airliner.
- v.* to seize control of an airplane or other vehicle during an operation, especially with violence
18. The doctor diagnosed him with cardiac _____ which put him at risk for heart failure.
- n.* the formation of excess fibrous connective tissue in an organ or tissue, often associated with inflammation, scarring, or injury; a pathological condition that can affect various organs and tissues of the body, leading to impaired function and potential organ failure
19. The company sent a _____ to explore new business opportunities in the overseas market.
- n.* a person or group sent out to obtain information, gather intelligence, or make observations, typically in a military context; a person or group sent out to explore or prospect for new opportunities, resources, or locations
20. The blade of the _____ glinted in the sunlight as he swung it back and forth.
- n.* a tool consisting of a short curved blade with a handle, used for cutting grass or grain; also a symbol associated with harvest or death
21. A stagnant water area are breeding ground for _____.
- n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
22. He _____ the computer's operating system to remove the safeguard.
- v.* to modify or recreate a program
23. I noticed a _____ in the company's annual report, stating the wrong profit margin.
- n.* a mistake made in typing or the reproduction of a text

ANSWERS: 17. hijack, 18. fibrosis, 19. scout, 20. sickle, 21. mosquitos, 22. reprogrammed, 23. typo

ANSWERS: