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Vocabulary Builder Reference from...

Jennifer Doudna: How CRISPR lets us edit our DNA | TED Talk

https://www.ted.com/talks/jennifer_doudna_how_crisp r_lets_us_edit_our_dna



Advanced Words Only

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Session 1: Word List

defuse

v. to reduce or eliminate the tension, anger, or hostility in a situation, especially a potentially explosive one, by calming, soothing, or pacifying those involved

synonym: calm, reduce, deactivate

(1) **defuse** a crisis, (2) **defuse** a bomb

The negotiator skillfully **defused** the tense situation with calm words and gestures.

degrade

v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others

synonym: demean, disgrace, impair

(1) **degrade** his public image, (2) **degrade** environmental quality

You should not **degrade** yourself by allowing them to use you.

opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym: suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark The phone rang at the most **opportune** time.

infect

 to affect a person, an animal, or a plant with a disease-causing organism

synonym: pollute, contaminate, affect

(1) **infect** other animal species, (2) **infect** a computer with a virus

Children often **infect** parents with this head cold.

societal

adj. relating to society or social relationships synonym: social, communal, cultural

(1) societal norms, (2) societal expectations

The **societal** pressure to conform is strong in this community.

inject

 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.

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.

interspace

 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

 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.

acronym

 a word formed from the first letter of each word in a phrase, such as NASA (National Aeronautics and Space Administration) or AIDS (Acquired Immune Deficiency Syndrome)

synonym: abbreviation, initialism, shortcut

(1) acronym definition, (2) use an acronym

RADAR is an **acronym** for radio detection and ranging.

progeny

the descendants or offspring of a person, animal, or plant

synonym: offspring, children, descendants

(1) **progeny** viral DNA, (2) **progeny** of plants

The royal family has much **progeny** scattered across the globe.

vaccinate

v. to treat with a vaccine, usually by injection, to produce immunity against a disease

synonym: immunize, inject, inoculate

(1) **vaccinate** against scarlet fever, (2) **vaccinate** every year

The nurse **vaccinated** the children in the school.

sentinel

 a person or thing that stands guard or keeps watch; a soldier or guard who stands watch to provide security

synonym: guard, watchman, lookout

(1) sentinel duty, (2) sentinel lymph node

The security camera acted as a **sentinel**, monitoring the area

for suspicious activity.

cleave

 to split or divide something into two parts, often with force; to adhere or cling to something closely and cohesively

synonym: split, sever, cleave

(1) **cleave** meat, (2) **cleave** the party

He swung the axe with all his might to **cleave** the wood in half.

helix

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.

typo

- n. a mistake made in typing or the reproduction of a textsynonym: 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.

envision

v. to imagine or expect what a situation will be like in the future

synonym: anticipate, foresee, picture

(1) **envision** the future, (2) **envision** the project's success We cannot **envision** her as President.

disrupt

v. to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

synonym: interrupt, disturb, break into

- (1) **disrupt** a well-ordered condition, (2) **disrupt** sleep I'm so sorry to **disrupt** you when you're pretty busy.
- a sac, cavity, or abnormal growth in the body that is typically filled with fluid or semisolid material; usually

cyst

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.

inefficient

adj. lacking the ability or skill and not making the best use of time, money, energy, etc.

synonym: ineffective, counterproductive, inadequate

(1) **inefficient** use, (2) **inefficient** management The system is still so **inefficient** that it is useless.

rewire

v. to replace or repair the wiring of something, especially an electrical system; to make significant changes in one's thoughts or behavior patterns

synonym: rewire, renovate, upgrade

(1) **rewire** a house, (2) **rewire** a program

I need to **rewire** the faulty electrical system in my house to prevent a fire.

astound

- v. to surprise or shock someone with wonder very much synonym: amaze, astonish, surprise
- (1) **astound** everyone, (2) **astound** the viewer The final result was nothing short of **astounding**.

sickle

 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

 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.

unintended

adj. not planned or meant

synonym: accidental, unconsenting, involuntary

(1) **unintended** bias, (2) **unintended** misunderstanding Excessive human interference in the global environment may bring **unintended** consequences.

commercialize

to make something available for sale or use on a large scale

synonym: monetize, capitalize, marketize

(1) **commercialize** my patents, (2) **commercialize** idea The company is trying to **commercialize** its new product.

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.

moratorium

 a temporary suspension or delay of an activity or process, often as a result of an official agreement or decision

synonym: suspension, pause, halt

(1) a temporary **moratorium** on evictions, (2) impose **moratorium**

The council has decided to impose a **moratorium** on building new houses in the area.

quarantine

 a state of isolation imposed on people or animals to prevent the spread of disease

synonym: isolation, confinement, restriction

(1) out of **quarantine**, (2) mandatory **quarantine**Due to the outbreak, the government imposed a two-week **quarantine** for all travelers.

complication

n. something that makes a situation or condition that is complex or confused

synonym: confusion, complexity, difficulty

(1) **complication** of structure, (2) resolve without **complication**

He also continued to struggle with serious long-term **complications**.

blueprint

 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.

genesis

 the origin or beginning of something; the first book of the biblical scriptures of both Judaism and Christianity, describing the creation of the Earth and humankind

synonym: beginning, creation, provenance

(1) the **genesis** of civilization, (2) in the Book of **Genesis** The politician's remarks became the **genesis** of the clash between the two countries.

Session 2: Spelling

1.	in the Book of Ges	n.	the origin or beginning of something; the first book of the biblical scriptures o both Judaism and Christianity, describing the creation of the Earth and humankind
2.	enon the project's success	v.	to imagine or expect what a situation will be like in the future
3.	dit sleep	v.	to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
4.	mandatory quane	n.	a state of isolation imposed on people or animals to prevent the spread of disease
5.	enon the future	v.	to imagine or expect what a situation will be like in the future
6.	int other animal species	v.	to affect a person, an animal, or a plant with a disease-causing organism
7.	the ges of civilization	n.	the origin or beginning of something; the first book of the biblical scriptures o both Judaism and Christianity, describing the creation of the Earth and humankind
8.	ree a program	<i>v</i> .	to replace or repair the wiring of something, especially an electrical

ANSWERS: 1. genesis, 2. envision, 3. disrupt, 4. quarantine, 5. envision, 6. infect, 7. genesis, 8. rewire

system; to make significant changes in one's thoughts or behavior patterns

9.	palme	ohrase	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
10.	architect's bl_	nt	n.	a photographic print of an early plan for a building or machine
11.	seel duty	<i>(</i>	n.	a person or thing that stands guard or keeps watch; a soldier or guard who stands watch to provide security
12.	resolve withou	ut comion	n.	something that makes a situation or condition that is complex or confused
13.	seel lym	oh node	n.	a person or thing that stands guard or keeps watch; a soldier or guard who stands watch to provide security
14.	palme	number	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
15.	cle the pa	rty	v.	to split or divide something into two parts, often with force; to adhere or cling to something closely and cohesively

ANSWERS: 9. palindrome, 10. blueprint, 11. sentinel, 12. complication, 13. sentinel, 14. palindrome, 15. cleave

16.	asd the viewer	ν.	to surprise or shock someone with wonder very much
17.	int a computer with a virus	<i>v</i> .	to affect a person, an animal, or a plant with a disease-causing organism
18.	hex structure	n.	a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
19.	comize my patents	<i>v</i> .	to make something available for sale or use on a large scale
20.	soal expectations	adj.	relating to society or social relationships
21.	ree a house	<i>v</i> .	to replace or repair the wiring of something, especially an electrical system; to make significant changes in one's thoughts or behavior patterns
22.	to-free resume	n.	a mistake made in typing or the reproduction of a text
23.	dee his public image	ν.	to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
24.	ovarian ct	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
25.	inent use	adj.	lacking the ability or skill and not making the best use of time, money, energy, etc.

ANSWERS: 16. astound, 17. infect, 18. helix, 19. commercialize, 20. societal, 21. rewire, 22. typo, 23. degrade, 24. cyst, 25. inefficient

26. dee a crisis	v.	to reduce or eliminate the tension, anger, or hostility in a situation, especially a potentially explosive one, by calming, soothing, or pacifying those involved
27. unied misunderstanding	adj.	not planned or meant
28. ct 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
29. fiis 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
30. unied bias	adj.	not planned or meant
31. acm definition	n.	a word formed from the first letter of each word in a phrase, such as NASA (National Aeronautics and Space Administration) or AIDS (Acquired Immune Deficiency Syndrome)
32. comion of structure	n.	something that makes a situation or condition that is complex or confused
33. int 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)

ANSWERS: 26. defuse, 27. unintended, 28. cyst, 29. fibrosis, 30. unintended, 31 acronym, 32. complication, 33. inject

34. cl e meat ν. 35. int ce for natural light n. 36. pr___y of plants n. 37. alpha he x n. 38. use an ac m n. 39. pr y viral DNA n. 40. chemical tr t n. 41. ine____nt management 42. full of t__os n.

43. an___a symptoms

- v. to split or divide something into two parts, often with force; to adhere or cling to something closely and cohesively
- n. the space between objects or parts, especially between two closely positioned objects; an interval or gap between two things
- n. the descendants or offspring of a person, animal, or plant
- a three-dimensional spiral shape or structure, particularly like that of a spring or a DNA molecule
- a word formed from the first letter of each word in a phrase, such as NASA (National Aeronautics and Space Administration) or AIDS (Acquired Immune Deficiency Syndrome)
- the descendants or offspring of a person, animal, or plant
- n. a particular feature of your nature
- adj. lacking the ability or skill and not making the best use of time, money, energy, etc.
- a mistake made in typing or the reproduction of a text
- 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

ANSWERS: 34. cleave, 35. interspace, 36. progeny, 37. helix, 38. acronym, 39. progeny, 40. trait, 41. inefficient, 42. typo, 43. anemia

44.	plk out weeds	ν.	to pull or draw something, especially with sudden force or effort; to strip of feathers
45.	out of quane	n.	a state of isolation imposed on people or animals to prevent the spread of disease
46.	vate against scarlet fever	v.	to treat with a vaccine, usually by injection, to produce immunity against a disease
47.	soal norms	adj.	relating to society or social relationships
48.	dee environmental quality	v.	to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
49.	comize idea	<i>v</i> .	to make something available for sale or use on a large scale
50.	asd everyone	<i>v</i> .	to surprise or shock someone with wonder very much
51.	an opne remark	adj.	suitable or happening at a time that is suitable or convenient for a particular purpose
52.	ana 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
53.	plk a gray hair	v.	to pull or draw something, especially with sudden force or effort; to strip of feathers

ANSWERS: 44. pluck, 45. quarantine, 46. vaccinate, 47. societal, 48. degrade, 49. commercialize, 50. astound, 51. opportune, 52. anemia, 53. pluck

54.	impose morum	n.	a temporary suspension or delay of an activity or process, often as a result of an official agreement or decision
55.	sie-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
56.	vate every year	v.	to treat with a vaccine, usually by injection, to produce immunity against a disease
57.	a temporary morum on evictions	n.	a temporary suspension or delay of an activity or process, often as a result of an official agreement or decision
58.	int under the skin	ν.	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)
59.	opne occasion	adj.	suitable or happening at a time that is suitable or convenient for a particular purpose
60.	harvest sie	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
61.	dit a well-ordered condition	ν.	to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
62.	blnt for economic reform	n.	a photographic print of an early plan for a building or machine

ANSWERS: 54. moratorium, 55. sickle, 56. vaccinate, 57. moratorium, 58. inject, 59. opportune, 60. sickle, 61. disrupt, 62. blueprint

- 63. int____ce between teeth
- 64. pulmonary fi____is

- 65. personality tr ts
- 66. de e a bomb

- n. the space between objects or parts, especially between two closely positioned objects; an interval or gap between two things
- 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
- n. a particular feature of your nature
- v. to reduce or eliminate the tension, anger, or hostility in a situation, especially a potentially explosive one, by calming, soothing, or pacifying those involved

ANSWERS: 63. interspace, 64. fibrosis, 65. trait, 66. defuse

Session 3: Fill in the Blanks

1.	The system is still so that it is useless.
adj	lacking the ability or skill and not making the best use of time, money, energy, etc.
2.	You should not yourself by allowing them to use you.
v.	to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
3.	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)
4.	The politician's remarks became the of the clash between the two countries.
n.	the origin or beginning of something; the first book of the biblical scriptures of both Judaism and Christianity, describing the creation of the Earth and humankind
5.	Due to the outbreak, the government imposed a two-week for all travelers.
n.	a state of isolation imposed on people or animals to prevent the spread of disease
6.	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
AN:	SWERS: 1. inefficient, 2. degrade, 3. inject, 4. genesis, 5. quarantine, 6. cyst

- 12. I noticed a ____ in the company's annual report, stating the wrong profit margin.
 - a mistake made in typing or the reproduction of a text
- 13. The company is trying to ______ its new product.
 - to make something available for sale or use on a large scale

ANSWERS: 7. sentinel, 8. moratorium, 9. fibrosis, 10. unintended, 11. cleave, 12. typo, 13. commercialize

ANSWERS: 14. disrupt, 15. infect, 16. helix, 17. plucked, 18. progeny, 19. interspace, 20. traits, 21. blueprint

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

21. A business plan is a _____ for your success.

22.	RADAR is an	for radio detection and ranging.
n.		from the first letter of each word in a phrase, such as NASA nautics and Space Administration) or AIDS (Acquired Immune drome)
23.	The p	ressure to conform is strong in this community.
adj	i. relating to soci	ety or social relationships
24.	I need to	the faulty electrical system in my house to prevent a fire.
v.	•	pair the wiring of something, especially an electrical system; to at changes in one's thoughts or behavior patterns
25.	The word "deifie backward as it d	d" is an example of a where it reads the same bes forward.
n.	forward, such a DNA or RNA th	or sequence of characters that reads the same backward as some same backward as some same or "level"; (of medicine and genetics) a sequence of at is the same when read from 5' (five prime, denoting ends of 3' on one strand and from 5' to 3' on the complementary strand
26.	The final result v	as nothing short of
v.		hock someone with wonder very much
27.	The phone rang	at the most time.
adj	suitable or hap purpose	pening at a time that is suitable or convenient for a particular
28.	The negotiator s gestures.	killfully the tense situation with calm words and
ν.		minate the tension, anger, or hostility in a situation, especially a osive one, by calming, soothing, or pacifying those involved
	SWERS: 22. acro portune, 28. defus	nym, 23. societal, 24. rewire, 25. palindrome, 26. astounding, 27 ed

ANSWERS: 29. vaccinated, 30. envision, 31. complications, 32. sickle, 33. anemia

or liveliness in something