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Daniel Streicker: What vaccinating vampire bats can teach us about pandemics | TED Talk

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

Advanced Words Only

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Session 1: Word List

rainforest

n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall

(1) **rainforest** destruction, (2) tropical **rainforest**

The destruction of the **rainforest** is a ticking time bomb for the Earth.

horrify

v. to shock or disgust greatly

synonym: shock, dismay, terrify

(1) **horrify** audience, (2) **horrify** victims

The series of terrorist attacks **horrify** the entire nation.

hallucinate

v. to experience a seemingly real perception of something that does not actually exist, usually as a result of a mental illness or drug use

(1) start to **hallucinate**, (2) **hallucinate** with drug

Sleep-deprived people gradually lose their concentration and may **hallucinate**.

confuse

v. to mistake one thing for another; to make somebody hard to understand

synonym: confound, obscure, disorient

(1) **confuse** the listener, (2) **confuse** fantasy with reality

Her remarks **confused** the debate.

rabies

n. a viral disease that affects the nervous system of mammals, including humans; transmitted through the saliva of infected animals, most often through a bite, which can lead to paralysis, seizures, and death if left untreated

synonym: hydrophobia, lyssa

(1) contract **rabies**, (2) **rabies** virus infection

Pet owners need to keep their animals vaccinated against **rabies**.

mammal

n. any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body

(1) a primitive **mammal**, (2) a sort of **mammal**

Marine **mammal** populations are declining worldwide due to ocean pollution.

undetected

adj. not perceived or discovered

synonym: undiscovered, hidden, concealed

(1) **undetected** cancer, (2) leave the house **undetected**

Doctors made mistakes, and diseases remained **undetected**.

disturb

v. to interrupt someone who is trying to work, sleep, etc.

synonym: agitate, bother, intrude

(1) **disturb** the peace, (2) **disturb** his sleep

Tourists frequently **disturb** the island's delicate natural balance.

perpetual

adj. continuing for an extended period in the same way without stopping or being interrupted

synonym: enduring, unchanging, incessant

(1) **perpetual** motion machine, (2) **perpetual** struggle

The company employs a **perpetual** inventory system.

extinguish

v. to cause a fire to stop burning or light to stop shining
synonym: quench, smother, blow out

(1) **extinguish** a cigarette, (2) **extinguish** the street lamp
Firefighters made every effort to **extinguish** the blaze immediately.

outwit

v. to defeat or overcome someone cleverly or cunningly by outsmarting them; to be more clever or cunning than someone else

synonym: outsmart, outmaneuver, outfox

(1) **outwit** a problem, (2) **outwit** his competitors

He could **outwit** his opponents with his quick thinking and clever strategy.

pandemic

n. an outbreak of a disease that affects many people over a very wide area

synonym: outbreak

(1) flu **pandemic**, (2) global **pandemic**

They fear a **pandemic** of a new type of virus.

infect

v. 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.

condense

v. to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated

synonym: compress, compact, shorten

(1) **condense** the text, (2) **condense** water vapor

I need to **condense** all of my notes into a manageable summary for my presentation.

rabid

adj. characterized by extreme or fanatical enthusiasm or devotion; having or showing symptoms of rabies, a viral

disease that affects the nervous system of mammals and can cause violent and aggressive behavior

synonym : fanatical, furious, zealous

(1) **rabid** anti-vaxxer, (2) **rabid** supporter

The fans became **rabid** when their team scored the winning goal.

mudslide

n. a natural disaster in which a large amount of mud, rocks, and debris slide uncontrollably down a steep slope

synonym : landslide, mudflow

(1) **mudslide** disaster, (2) **mudslide** warning

The town was devastated by a massive **mudslide** after heavy rainfall.

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.

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.

lifesaving

n. the act or process of rescuing someone else's life, especially from drowning

(1) **lifesaving** efforts, (2) **lifesaving** device

The patient needs a **lifesaving** transplant operation.

recluse

n. a person who lives in solitude and isolation

synonym : hermit, solitary, loner

(1) live as a **recluse**, (2) solitary **recluse**

After years in the limelight, the actor decided to retreat from

the public eye and become a **recluse**.

circulate

v. to move continuously or freely around a place or closed system

synonym: flow, disperse, rotate

(1) **circulate** a rumor, (2) **circulate** an agenda before the meeting

The fan **circulates** the air in the room quickly.

extinct

adj. no longer in existence

synonym: dead, obsolete, abolished

(1) **extinct** by human activity, (2) long- **extinct** volcano

Many species have become **extinct** due to habitat destruction and other human activities.

hitch

v. to move something into a different position jerkily; to travel by getting free rides from motorists; to hook or entangle

synonym: fasten, jerk, tether

(1) **hitch** a ride, (2) **hitch** up my trousers

The mechanics **hitched** the trailer to the broken-down car.

skunk

n. a small, carnivorous mammal known for its black and white striped fur and its ability to release a strong, foul-smelling odor from its anal glands when threatened; (skunk works) a group within an organization that is given a high degree of autonomy and is unhampered by bureaucracy

(1) **skunk** works project, (2) striped **skunk**

The **skunk** smell lingered in the backyard long after the creature had left.

raccoon

n. a nocturnal mammal with a distinctive black mask-like marking around the eyes, known for its omnivorous diet, dexterous paws, and bushy tail

(1) cunning **raccoon**, (2) **raccoon** fur

I saw a cute **raccoon** family crossing the road while driving

home from camping.

edible

adj. fit or safe to be eaten; able to be consumed as food

synonym : esculent, comestible, digestible

(1) non- **edible** ingredients, (2) **edible** vegetables

I made sure to pick only **edible** mushrooms for our dinner.

smear

v. to spread or apply a substance thinly and unevenly over a surface; to slander or accuse someone falsely; (noun) a mark or blot made by smudging, typically a dirty or greasy one

synonym : smudge, spread, daub

(1) **smear** butter on bread, (2) **smear** of blood

The politician tried to **smear** his opponent's reputation with false accusations.

groom

v. to clean, brush, and care for the fur or feathers of an animal; to prepare oneself or someone else for a special event or occasion; to make something neat

synonym : brush, comb, neaten

(1) **groom** duties, (2) **groom** a horse

I need to **groom** my dog before his fur gets too long.

syrinx

n. the vocal organ of a bird; a primitive wind instrument consisting of several parallel pipes bound together

synonym : panpipes

(1) dogs with a wide **syrinx**, (2) spinal **syrinx**

The shape of a bird's **syrinx** varies greatly depending on the environment in which it lives.

drastic

adj. radical and extreme; likely to have a significant or far-reaching impact

synonym : extreme, fierce, radical

(1) **drastic** measures, (2) make **drastic** revision

The global community is undergoing **drastic** changes at present.

grail

n. a sacred or highly prized object, often associated with a quest or search for something elusive or unattainable

synonym: chalice, treasure, quest

(1) holy **grail**, (2) ultimate **grail**

The search for the **grail** is often used as a metaphor for any difficult quest or task.

astronaut

n. a person trained by a space agency to travel outside the Earth's atmosphere

synonym: spaceman, cosmonaut

(1) **astronaut** mission, (2) **astronaut** in training

The shuttle **astronaut** trained for months before embarking on the space mission.

Session 2: Spelling

- | | |
|----------------------------------|--|
| 1. make dr_____c revision | <i>adj.</i> radical and extreme; likely to have a significant or far-reaching impact |
| 2. co_____e fantasy with reality | <i>v.</i> to mistake one thing for another; to make somebody hard to understand |
| 3. mu_____de disaster | <i>n.</i> a natural disaster in which a large amount of mud, rocks, and debris slide uncontrollably down a steep slope |
| 4. co_____e the listener | <i>v.</i> to mistake one thing for another; to make somebody hard to understand |
| 5. start to hal_____te | <i>v.</i> to experience a seemingly real perception of something that does not actually exist, usually as a result of a mental illness or drug use |
| 6. a primitive ma____l | <i>n.</i> any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body |
| 7. gr__m a horse | <i>v.</i> to clean, brush, and care for the fur or feathers of an animal; to prepare oneself or someone else for a special event or occasion; to make something neat |
| 8. as_____ut mission | <i>n.</i> a person trained by a space agency to travel outside the Earth's atmosphere |
| 9. co_____se water vapor | <i>v.</i> to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated |

ANSWERS: 1. drastic, 2. confuse, 3. mudslide, 4. confuse, 5. hallucinate, 6. mammal, 7. groom, 8. astronaut, 9. condense

10. pe_____al motion machine *adj.* continuing for an extended period in the same way without stopping or being interrupted
11. hal_____te with drug *v.* to experience a seemingly real perception of something that does not actually exist, usually as a result of a mental illness or drug use
12. ra_____n fur *n.* a nocturnal mammal with a distinctive black mask-like marking around the eyes, known for its omnivorous diet, dexterous paws, and bushy tail
13. va_____te every year *v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
14. flu pa_____ic *n.* an outbreak of a disease that affects many people over a very wide area
15. ci_____te an agenda before the meeting *v.* to move continuously or freely around a place or closed system
16. long-ex_____t volcano *adj.* no longer in existence
17. ho_____y victims *v.* to shock or disgust greatly
18. cunning ra_____n *n.* a nocturnal mammal with a distinctive black mask-like marking around the eyes, known for its omnivorous diet, dexterous paws, and bushy tail
19. hi__h a ride *v.* to move something into a different position jerkily; to travel by getting free rides from motorists; to hook or entangle

ANSWERS: 10. perpetual, 11. hallucinate, 12. raccoon, 13. vaccinate, 14. pandemic, 15. circulate, 16. extinct, 17. horrify, 18. raccoon, 19. hitch

20. hi__h up my trousers *v.* to move something into a different position jerkily; to travel by getting free rides from motorists; to hook or entangle
21. holy gr__l *n.* a sacred or highly prized object, often associated with a quest or search for something elusive or unattainable
22. ou__t a problem *v.* to defeat or overcome someone cleverly or cunningly by outsmarting them; to be more clever or cunning than someone else
23. ultimate gr__l *n.* a sacred or highly prized object, often associated with a quest or search for something elusive or unattainable
24. und_____ed cancer *adj.* not perceived or discovered
25. ho_____y audience *v.* to shock or disgust greatly
26. va_____te against scarlet fever *v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
27. ext_____sh a cigarette *v.* to cause a fire to stop burning or light to stop shining
28. striped sk__k *n.* a small, carnivorous mammal known for its black and white striped fur and its ability to release a strong, foul-smelling odor from its anal glands when threatened; (skunk works) a group within an organization that is given a high degree of autonomy and is unhampered by bureaucracy

ANSWERS: 20. hitch, 21. grail, 22. outwit, 23. grail, 24. undetected, 25. horrify, 26. vaccinate, 27. extinguish, 28. skunk

29. rai_____st destruction *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
30. a sort of ma____l *n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
31. sm__r of blood *v.* to spread or apply a substance thinly and unevenly over a surface; to slander or accuse someone falsely; (noun) a mark or blot made by smudging, typically a dirty or greasy one
32. solitary re_____e *n.* a person who lives in solitude and isolation
33. in____t other animal species *v.* to affect a person, an animal, or a plant with a disease-causing organism
34. live as a re_____e *n.* a person who lives in solitude and isolation
35. dogs with a wide sy____x *n.* the vocal organ of a bird; a primitive wind instrument consisting of several parallel pipes bound together
36. ext_____sh the street lamp *v.* to cause a fire to stop burning or light to stop shining
37. lif_____ng efforts *n.* the act or process of rescuing someone else's life, especially from drowning
38. contract ra____s *n.* a viral disease that affects the nervous system of mammals, including humans; transmitted through the saliva of infected animals, most often through a bite, which can lead to paralysis, seizures, and death if left untreated

ANSWERS: 29. rainforest, 30. mammal, 31. smear, 32. recluse, 33. infect, 34. recluse, 35. syrinx, 36. extinguish, 37. lifesaving, 38. rabies

39. ra__d supporter *adj.* characterized by extreme or fanatical enthusiasm or devotion; having or showing symptoms of rabies, a viral disease that affects the nervous system of mammals and can cause violent and aggressive behavior
40. gr__m duties *v.* to clean, brush, and care for the fur or feathers of an animal; to prepare oneself or someone else for a special event or occasion; to make something neat
41. global pa____ic *n.* an outbreak of a disease that affects many people over a very wide area
42. ra____s virus infection *n.* a viral disease that affects the nervous system of mammals, including humans; transmitted through the saliva of infected animals, most often through a bite, which can lead to paralysis, seizures, and death if left untreated
43. di____b his sleep *v.* to interrupt someone who is trying to work, sleep, etc.
44. ci____te a rumor *v.* to move continuously or freely around a place or closed system
45. an op____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
46. pe____al struggle *adj.* continuing for an extended period in the same way without stopping or being interrupted
47. sm__r butter on bread *v.* to spread or apply a substance thinly and unevenly over a surface; to slander or accuse someone falsely; (noun) a mark or blot made by smudging, typically a dirty or greasy one

ANSWERS: 39. rabid, 40. groom, 41. pandemic, 42. rabies, 43. disturb, 44. circulate, 45. opportune, 46. perpetual, 47. smear

48. non-ed___e ingredients *adj.* fit or safe to be eaten; able to be consumed as food
49. ra__d anti-vaxxer *adj.* characterized by extreme or fanatical enthusiasm or devotion; having or showing symptoms of rabies, a viral disease that affects the nervous system of mammals and can cause violent and aggressive behavior
50. sk__k works project *n.* a small, carnivorous mammal known for its black and white striped fur and its ability to release a strong, foul-smelling odor from its anal glands when threatened; (skunk works) a group within an organization that is given a high degree of autonomy and is unhampered by bureaucracy
51. ed___e vegetables *adj.* fit or safe to be eaten; able to be consumed as food
52. co_____se the text *v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated
53. dr_____c measures *adj.* radical and extreme; likely to have a significant or far-reaching impact
54. lif_____ng device *n.* the act or process of rescuing someone else's life, especially from drowning
55. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
56. tropical rai_____st *n.* a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall

ANSWERS: 48. edible, 49. rabid, 50. skunk, 51. edible, 52. condense, 53. drastic, 54. lifesaving, 55. opportune, 56. rainforest

57. ou___t his competitors *v.* to defeat or overcome someone cleverly or cunningly by outsmarting them; to be more clever or cunning than someone else
58. ex_____t by human activity *adj.* no longer in existence
59. as_____ut in training *n.* a person trained by a space agency to travel outside the Earth's atmosphere
60. in___t a computer with a virus *v.* to affect a person, an animal, or a plant with a disease-causing organism
61. mu_____de warning *n.* a natural disaster in which a large amount of mud, rocks, and debris slide uncontrollably down a steep slope
62. spinal sy___x *n.* the vocal organ of a bird; a primitive wind instrument consisting of several parallel pipes bound together
63. di_____b the peace *v.* to interrupt someone who is trying to work, sleep, etc.
64. leave the house und_____ed *adj.* not perceived or discovered

ANSWERS: 57. outwit, 58. extinct, 59. astronaut, 60. infect, 61. mudslide, 62. syrinx, 63. disturb, 64. undetected

Session 3: Fill in the Blanks

1. The fans became _____ when their team scored the winning goal.
adj. characterized by extreme or fanatical enthusiasm or devotion; having or showing symptoms of rabies, a viral disease that affects the nervous system of mammals and can cause violent and aggressive behavior
2. The fan _____ the air in the room quickly.
v. to move continuously or freely around a place or closed system
3. After years in the limelight, the actor decided to retreat from the public eye and become a _____.
n. a person who lives in solitude and isolation
4. The shape of a bird's _____ varies greatly depending on the environment in which it lives.
n. the vocal organ of a bird; a primitive wind instrument consisting of several parallel pipes bound together
5. Pet owners need to keep their animals vaccinated against _____.
n. a viral disease that affects the nervous system of mammals, including humans; transmitted through the saliva of infected animals, most often through a bite, which can lead to paralysis, seizures, and death if left untreated
6. The destruction of the _____ is a ticking time bomb for the Earth.
n. a forest rich in biodiversity that is generally found in tropical settings with heavy annual rainfall
7. Children often _____ parents with this head cold.
v. to affect a person, an animal, or a plant with a disease-causing organism

ANSWERS: 1. rabid, 2. circulates, 3. recluse, 4. syrinx, 5. rabies, 6. rainforest, 7. infect

8. I need to _____ my dog before his fur gets too long.
- v.* to clean, brush, and care for the fur or feathers of an animal; to prepare oneself or someone else for a special event or occasion; to make something neat
9. The shuttle _____ trained for months before embarking on the space mission.
- n.* a person trained by a space agency to travel outside the Earth's atmosphere
10. Many species have become _____ due to habitat destruction and other human activities.
- adj.* no longer in existence
11. The _____ smell lingered in the backyard long after the creature had left.
- n.* a small, carnivorous mammal known for its black and white striped fur and its ability to release a strong, foul-smelling odor from its anal glands when threatened; (skunk works) a group within an organization that is given a high degree of autonomy and is unhampered by bureaucracy
12. Tourists frequently _____ the island's delicate natural balance.
- v.* to interrupt someone who is trying to work, sleep, etc.
13. The company employs a _____ inventory system.
- adj.* continuing for an extended period in the same way without stopping or being interrupted
14. I need to _____ all of my notes into a manageable summary for my presentation.
- v.* to reduce the volume or size of something, often by removing water or other liquid; to make something shorter, more concise, or more concentrated

ANSWERS: 8. groom, 9. astronaut, 10. extinct, 11. skunk, 12. disturb, 13. perpetual, 14. condense

15. The nurse _____ the children in the school.

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

16. The phone rang at the most _____ time.

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

17. Her remarks _____ the debate.

- v.* to mistake one thing for another; to make somebody hard to understand

18. The town was devastated by a massive _____ after heavy rainfall.

- n.* a natural disaster in which a large amount of mud, rocks, and debris slide uncontrollably down a steep slope

19. The search for the _____ is often used as a metaphor for any difficult quest or task.

- n.* a sacred or highly prized object, often associated with a quest or search for something elusive or unattainable

20. He could _____ his opponents with his quick thinking and clever strategy.

- v.* to defeat or overcome someone cleverly or cunningly by outsmarting them; to be more clever or cunning than someone else

21. The politician tried to _____ his opponent's reputation with false accusations.

- v.* to spread or apply a substance thinly and unevenly over a surface; to slander or accuse someone falsely; (noun) a mark or blot made by smudging, typically a dirty or greasy one

22. The global community is undergoing _____ changes at present.

- adj.* radical and extreme; likely to have a significant or far-reaching impact

ANSWERS: 15. vaccinated, 16. opportune, 17. confused, 18. mudslide, 19. grail, 20. outwit, 21. smear, 22. drastic

23. They fear a _____ of a new type of virus.
n. an outbreak of a disease that affects many people over a very wide area
24. Sleep-deprived people gradually lose their concentration and may _____.
v. to experience a seemingly real perception of something that does not actually exist, usually as a result of a mental illness or drug use
25. I saw a cute _____ family crossing the road while driving home from camping.
n. a nocturnal mammal with a distinctive black mask-like marking around the eyes, known for its omnivorous diet, dexterous paws, and bushy tail
26. The mechanics _____ the trailer to the broken-down car.
v. to move something into a different position jerkily; to travel by getting free rides from motorists; to hook or entangle
27. The patient needs a _____ transplant operation.
n. the act or process of rescuing someone else's life, especially from drowning
28. Marine _____ populations are declining worldwide due to ocean pollution.
n. any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
29. The series of terrorist attacks _____ the entire nation.
v. to shock or disgust greatly
30. Firefighters made every effort to _____ the blaze immediately.
v. to cause a fire to stop burning or light to stop shining
31. I made sure to pick only _____ mushrooms for our dinner.
adj. fit or safe to be eaten; able to be consumed as food

ANSWERS: 23. pandemic, 24. hallucinate, 25. raccoon, 26. hitched, 27. lifesaving, 28. mammal, 29. horrify, 30. extinguish, 31. edible

32. Doctors made mistakes, and diseases remained _____.

adj. not perceived or discovered

ANSWERS: 32. undetected