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Fredros Okumu: Why I study the most dangerous animal on earth -- mosquitoes | TED Talk

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

Advanced Words Only

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Session 1: Word List

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**.

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.

flashlight

n. a portable electric light with a handle and a switch that can be turned on and off

synonym : torch, lamp, beacon

(1) **flashlight** beam, (2) **flashlight** batteries

He used a backup **flashlight** to find his way through the dark cave.

siphon

n. a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container

synonym : tube, hose, pipe

(1) **siphon** off political funds, (2) **siphon** jet

The **siphon** pipe in my aquarium helps to keep the water clean and clear by removing debris and waste.

trousers

n. a pair of leg coverings that extends from the waist to the ankles covering each leg separately, often referred to as pants

synonym : pants, slacks, jeans

(1) work **trousers**, (2) denim **trousers**

He wore black **trousers** and a white shirt to the job interview.

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.

parasite

n. an organism that lives on or in another organism and benefits by deriving nutrients at the other's expense

synonym : hitchhiker, leech, saprophyte

(1) blood-sucking **parasite**, (2) **parasite** disease

Tapeworms are **parasites** that live in the intestines of humans and animals.

well-being

n. the state of being happy and healthy and prosperous

synonym : health, welfare, happiness

(1) the **well-being** of a nation, (2) a sense of **well-being**

We are responsible for the care and **well-being** of all our employees.

insecticide

n. a substance used to kill insects

synonym : pesticide, bug-killer, rodenticide

(1) **insecticide** spray, (2) **insecticide** residue

The farmer sprayed the crop with **insecticide** to protect it from pests.

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.

scatter

v. to cause to separate and go in different directions

synonym: disperse, spread, bestrew

(1) **scatter** seeds, (2) **scatter** around the internet

The hunter's approach **scattered** the geese.

hoof

n. the horny part of the foot of some mammals, such as horses, deer, and cattle

synonym: foot, paw

(1) **hoof** mark, (2) clean **hoof**

The horse's **hoof** was injured and needed to be treated by a veterinarian.

larva

n. the immature free-living form of insect or an animal, which at hatching from the egg, is fundamentally unlike its parent and must metamorphose

synonym: caterpillar, grub, maggot

(1) **larva** of a butterfly, (2) a moth **larva**

The butterfly emerged from its **larva** stage.

sterile

adj. free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing

synonym: clean, germ-free, hygienic

(1) **sterile** environment, (2) a **sterile** man

Surgeons must use **sterile** instruments to prevent infection during an operation.

progeny

n. 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.

disseminate

v. to spread or distribute widely, especially information or ideas; to scatter or disperse

synonym: spread, circulate, propagate

(1) **disseminate** propaganda, (2) **disseminate** knowledge

It is important to **disseminate** accurate information to the public to prevent false rumors from spreading.

swarm

n. a group of many things, such as insects, fishes, etc., in the air or water or on the ground

synonym: horde, hive, throng

(1) a **swarm** of mosquitoes, (2) locust **swarm**

A **swarm** of angry bees attacked because we had approached the hive.

congregate

v. to come together or gather in a group or assembly; to collect or accumulate in a particular place or area

synonym: assemble, converge, gather

(1) **congregate** at the park, (2) **congregate** in a mosque

The protesters plan to **congregate** in front of the city hall to raise awareness for their cause.

clump

n. a small group of bushes, trees, flowers, people, etc.

synonym: cluster, bunch, bundle

(1) **clump** of bacteria, (2) a **clump** of trees

I heard the **clump** of his boots in the hallway.

nuke

v. (derived from "nuclear") to attack or destroy a place or target with a nuclear weapon; to cook food in a microwave oven; (noun) a nuclear weapon, such as a nuclear bomb or missile

synonym : blast, bomb, attack

(1) **nuke** a city, (2) **nuke** missile

The government threatened to **nuke** the enemy territory if they didn't surrender.

concoction

n. the mixture, often a complicated one; a preparation made by combining various ingredients

synonym : mixture, brew, composition

(1) **concoction** recipe, (2) coffee-milk **concoction**

The **concoction** of herbs and spices gave the soup a unique flavor.

reminiscent

adj. making you remember someone or something; relating to the recall of personal interests

synonym : evocative, remindful, redolent

(1) **reminiscent** of ancient times, (2) **reminiscent** smile

His painting style is **reminiscent** of Monet's

lure

v. to tempt or persuade someone to do something

synonym : tempt, entice, attract

(1) **lure** prey, (2) **lure** foreign investment

The salesperson used a special offer to **lure** customers into buying the product.

dengue

n. a viral disease transmitted by mosquitoes, characterized by fever, severe joint and muscle pain, and a rash

synonym : breakbone fever, infectious tropical disease

(1) **dengue** mosquito, (2) **dengue** outbreak

Many people in this region have contracted **dengue** fever from mosquito bites.

chikungunya

n. a viral infection carried by mosquitoes that causes fever and severe joint pain, often accompanied by a rash, headache, muscle pain, and fatigue

synonym : dengue fever, zika virus, malaria

(1) **chikungunya** fever, (2) **chikungunya** outbreak

The **chikungunya** virus is transmitted to humans by mosquitoes.

repellent

adj. serving to drive away or repel something; unpleasant or offensive and causing a strong sense of aversion or disgust

synonym : disgusting, repulsive, offensive

(1) **repellent** odor, (2) **repellent** properties

She avoided the used car salesman because she found his pushy behavior **repellent**.

inherit

v. to receive money, property, or a title from someone after they have died

synonym : obtain, gain, acquire

(1) **inherit** estate, (2) **inherit** ancestral property

After his death, his sons **inherited** his business.

Session 2: Spelling

1. chi_____ya outbreak *n.* a viral infection carried by mosquitoes that causes fever and severe joint pain, often accompanied by a rash, headache, muscle pain, and fatigue
2. a cl__p of trees *n.* a small group of bushes, trees, flowers, people, etc.
3. locust sw__m *n.* a group of many things, such as insects, fishes, etc., in the air or water or on the ground
4. l__e prey *v.* to tempt or persuade someone to do something
5. fla_____ht beam *n.* a portable electric light with a handle and a switch that can be turned on and off
6. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
7. work tr_____rs *n.* a pair of leg coverings that extends from the waist to the ankles covering each leg separately, often referred to as pants
8. c__p wood *v.* to cut something into pieces with a sharp tool, such as a knife
9. con_____on recipe *n.* the mixture, often a complicated one; a preparation made by combining various ingredients

ANSWERS: 1. chikungunya, 2. clump, 3. swarm, 4. lure, 5. flashlight, 6. opportune, 7. trousers, 8. chop, 9. concoction

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|------------------------------|--|
| 10. a moth la__a | <i>n.</i> the immature free-living form of insect or an animal, which at hatching from the egg, is fundamentally unlike its parent and must metamorphose |
| 11. l__e foreign investment | <i>v.</i> to tempt or persuade someone to do something |
| 12. pr____y of plants | <i>n.</i> the descendants or offspring of a person, animal, or plant |
| 13. a sw__m of mosquitoes | <i>n.</i> a group of many things, such as insects, fishes, etc., in the air or water or on the ground |
| 14. rem_____nt smile | <i>adj.</i> making you remember someone or something; relating to the recall of personal interests |
| 15. a sense of wel_____ng | <i>n.</i> the state of being happy and healthy and prosperous |
| 16. ins_____de spray | <i>n.</i> a substance used to kill insects |
| 17. ins_____de residue | <i>n.</i> a substance used to kill insects |
| 18. c__p a meet with a knife | <i>v.</i> to cut something into pieces with a sharp tool, such as a knife |
| 19. re_____nt odor | <i>adj.</i> serving to drive away or repel something; unpleasant or offensive and causing a strong sense of aversion or disgust |
| 20. de___e outbreak | <i>n.</i> a viral disease transmitted by mosquitoes, characterized by fever, severe joint and muscle pain, and a rash |

ANSWERS: 10. larva, 11. lure, 12. progeny, 13. swarm, 14. reminiscent, 15. well-being, 16. insecticide, 17. insecticide, 18. chop, 19. repellent, 20. dengue

21. cl__p of bacteria *n.* a small group of bushes, trees, flowers, people, etc.
22. con_____te at the park *v.* to come together or gather in a group or assembly; to collect or accumulate in a particular place or area
23. coffee-milk con_____on *n.* the mixture, often a complicated one; a preparation made by combining various ingredients
24. the wel_____ng of a nation *n.* the state of being happy and healthy and prosperous
25. rem_____nt of ancient times *adj.* making you remember someone or something; relating to the recall of personal interests
26. mo_____to repellent *n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
27. con_____te in a mosque *v.* to come together or gather in a group or assembly; to collect or accumulate in a particular place or area
28. in_____t ancestral property *v.* to receive money, property, or a title from someone after they have died
29. n__e missile *v.* (derived from "nuclear") to attack or destroy a place or target with a nuclear weapon; to cook food in a microwave oven; (noun) a nuclear weapon, such as a nuclear bomb or missile
30. la__a of a butterfly *n.* the immature free-living form of insect or an animal, which at hatching from the egg, is fundamentally unlike its parent and must metamorphose

ANSWERS: 21. clump, 22. congregate, 23. concoction, 24. well-being, 25. reminiscent, 26. mosquito, 27. congregate, 28. inherit, 29. nuke, 30. larva

31. a st____e man *adj.* free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
32. in____t estate *v.* to receive money, property, or a title from someone after they have died
33. st____e environment *adj.* free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing
34. si____n jet *n.* a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container
35. sc____r around the internet *v.* to cause to separate and go in different directions
36. denim tr____rs *n.* a pair of leg coverings that extends from the waist to the ankles covering each leg separately, often referred to as pants
37. re____nt properties *adj.* serving to drive away or repel something; unpleasant or offensive and causing a strong sense of aversion or disgust
38. pa____te disease *n.* an organism that lives on or in another organism and benefits by deriving nutrients at the other's expense
39. chi____ya fever *n.* a viral infection carried by mosquitoes that causes fever and severe joint pain, often accompanied by a rash, headache, muscle pain, and fatigue

ANSWERS: 31. sterile, 32. inherit, 33. sterile, 34. siphon, 35. scatter, 36. trousers, 37. repellent, 38. parasite, 39. chikungunya

40. pr_____y viral DNA *n.* the descendants or offspring of a person, animal, or plant
41. ins_____ize a system *v.* to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
42. h__f mark *n.* the horny part of the foot of some mammals, such as horses, deer, and cattle
43. clean h__f *n.* the horny part of the foot of some mammals, such as horses, deer, and cattle
44. blood-sucking pa_____te *n.* an organism that lives on or in another organism and benefits by deriving nutrients at the other's expense
45. ins_____ize customary laws *v.* to establish or make something a part of an institution (= a place such as a university, hospital, etc.)
46. fla_____ht batteries *n.* a portable electric light with a handle and a switch that can be turned on and off
47. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
48. si___n off political funds *n.* a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container
49. dis_____te knowledge *v.* to spread or distribute widely, especially information or ideas; to scatter or disperse

ANSWERS: 40. progeny, 41. institutionalize, 42. hoof, 43. hoof, 44. parasite, 45. institutionalize, 46. flashlight, 47. opportune, 48. siphon, 49. disseminate

50. dis_____te propaganda *v.* to spread or distribute widely, especially information or ideas; to scatter or disperse
51. de___e mosquito *n.* a viral disease transmitted by mosquitoes, characterized by fever, severe joint and muscle pain, and a rash
52. mo_____to bite *n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
53. n___e a city *v.* (derived from "nuclear") to attack or destroy a place or target with a nuclear weapon; to cook food in a microwave oven; (noun) a nuclear weapon, such as a nuclear bomb or missile
54. sc_____r seeds *v.* to cause to separate and go in different directions

ANSWERS: 50. disseminate, 51. dengue, 52. mosquito, 53. nuke, 54. scatter

Session 3: Fill in the Blanks

1. The farmer sprayed the crop with _____ to protect it from pests.
n. a substance used to kill insects

2. His painting style is _____ of Monet's
adj. making you remember someone or something; relating to the recall of personal interests

3. We are responsible for the care and _____ of all our employees.
n. the state of being happy and healthy and prosperous

4. He wore black _____ and a white shirt to the job interview.
n. a pair of leg coverings that extends from the waist to the ankles covering each leg separately, often referred to as pants

5. A _____ of angry bees attacked because we had approached the hive.
n. a group of many things, such as insects, fishes, etc., in the air or water or on the ground

6. The _____ pipe in my aquarium helps to keep the water clean and clear by removing debris and waste.
n. a tube or conduit used to transfer liquids, usually from a higher to a lower level, by means of atmospheric pressure, gravity, or vacuum; a device used to extract a liquid from a container

7. The hunter's approach _____ the geese.
v. to cause to separate and go in different directions

ANSWERS: 1. insecticide, 2. reminiscent, 3. well-being, 4. trousers, 5. swarm, 6. siphon, 7. scattered

8. Surgeons must use _____ instruments to prevent infection during an operation.

adj. free from living microorganisms, especially bacteria, fungi, and viruses; incapable of reproducing

9. The phone rang at the most _____ time.

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

10. The butterfly emerged from its _____ stage.

n. the immature free-living form of insect or an animal, which at hatching from the egg, is fundamentally unlike its parent and must metamorphose

11. After his death, his sons _____ his business.

v. to receive money, property, or a title from someone after they have died

12. The protesters plan to _____ in front of the city hall to raise awareness for their cause.

v. to come together or gather in a group or assembly; to collect or accumulate in a particular place or area

13. The royal family has much _____ scattered across the globe.

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

14. 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

15. 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.)

ANSWERS: 8. sterile, 9. opportune, 10. larva, 11. inherited, 12. congregate, 13. progeny, 14. mosquitos, 15. institutionalize

16. The _____ virus is transmitted to humans by mosquitoes.
n. a viral infection carried by mosquitoes that causes fever and severe joint pain, often accompanied by a rash, headache, muscle pain, and fatigue
17. The _____ of herbs and spices gave the soup a unique flavor.
n. the mixture, often a complicated one; a preparation made by combining various ingredients
18. The horse's _____ was injured and needed to be treated by a veterinarian.
n. the horny part of the foot of some mammals, such as horses, deer, and cattle
19. He used a backup _____ to find his way through the dark cave.
n. a portable electric light with a handle and a switch that can be turned on and off
20. I heard the _____ of his boots in the hallway.
n. a small group of bushes, trees, flowers, people, etc.
21. The salesperson used a special offer to _____ customers into buying the product.
v. to tempt or persuade someone to do something
22. She avoided the used car salesman because she found his pushy behavior _____.
adj. serving to drive away or repel something; unpleasant or offensive and causing a strong sense of aversion or disgust
23. Many people in this region have contracted _____ fever from mosquito bites.
n. a viral disease transmitted by mosquitoes, characterized by fever, severe joint and muscle pain, and a rash

ANSWERS: 16. chikungunya, 17. concoction, 18. hoof, 19. flashlight, 20. clump, 21. lure, 22. repellent, 23. dengue

24. Tapeworms are _____ that live in the intestines of humans and animals.
- n.* an organism that lives on or in another organism and benefits by deriving nutrients at the other's expense
25. It is important to _____ accurate information to the public to prevent false rumors from spreading.
- v.* to spread or distribute widely, especially information or ideas; to scatter or disperse
26. The cook _____ the vegetables for the soup.
- v.* to cut something into pieces with a sharp tool, such as a knife
27. The government threatened to _____ the enemy territory if they didn't surrender.
- v.* (derived from "nuclear") to attack or destroy a place or target with a nuclear weapon; to cook food in a microwave oven; (noun) a nuclear weapon, such as a nuclear bomb or missile

ANSWERS: 24. parasites, 25. disseminate, 26. chopped, 27. nuke