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Jaap de Roode: How butterflies self-medicate | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

chimpanzee

n. a small, very intelligent ape found in west and central Africa with black or brown fur

synonym: ape, chimp, pan troglodytes

(1) **chimpanzee** behavior, (2) **chimpanzee** society

Many zoos have **chimpanzee** exhibits, allowing visitors to observe these intelligent primates up close.

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.

porcupine

n. a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas

synonym: hedgehog, echidna, spiny mammal

(1) **porcupine** movement, (2) **porcupine** habitat

The quills on a **porcupine's** back are used for defense.

pathogen

n. a bacterium, virus, or other microorganism that causes disease

synonym : germ, microbe, bacterium

(1) plant **pathogen**, (2) the **pathogen** in the air
mRNA vaccines are approved faster because they do not contain inactivated **pathogens**.

monarch

n. a person who rules a country, such as a king or queen

synonym : ruler, sovereign, majesty

(1) an absolute **monarch**, (2) **monarch** butterflies

She came from a commoner background but eventually became the **monarch** of that country.

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.

spore

n. a reproductive cell that is capable of developing into a new individual without fertilization, especially one produced by certain bacteria, fungi, and algae

synonym : seed, reproductive cell, particle

(1) anthrax **spore**, (2) **spore** reproduction

Bacteria and some algae also produce **spores** as a means of survival and dispersal, and they are often found in soil, water, and other environments.

speck

n. a very small spot, piece, or amount

synonym : blot, dot, mark

(1) a **speck** of dust, (2) **speck** of suspicion

The plane was just a **speck** in the sky.

detrimental

adj. causing harm or damage

synonym : harmful, damaging, injurious

(1) **detrimental** eating habits, (2) **detrimental** to good health

The new policy had a **detrimental** impact on small businesses.

lifespan

n. the length of time for which a person, animal lives, or thing exists

synonym: duration, lifetime, continuance

(1) **lifespan** extension, (2) **lifespan** retrieval curve

Generally speaking, men have a shorter **lifespan** than women.

picky

adj. overly particular or selective, especially about food or other consumable goods; difficult to please or satisfy because of one's specific tastes or preferences

synonym: fussy, choosy, particular

(1) **picky** personality, (2) **picky** about details

My **picky** eater only likes to eat certain types of vegetables.

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.

predator

n. an animal whose natural behavior is to prey on others

synonym: vulture, bloodsucker

(1) apex **predator**, (2) sexual **predators**

The native South American animals were in danger because of the **predator's** arrival.

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.

caterpillar

n. the wormlike larva of a butterfly or moth

synonym: larva, grub, worm

(1) **caterpillar** of a butterfly, (2) **caterpillar** in a cocoon

The woolly bear **caterpillar** munched on leaves all day.

creditor

n. a person, company, etc. to whom a debtor owes money

(1) the **creditor's** claims, (2) bankrupt **creditor**

I asked the lawyer to initiate **creditor** negotiations for voluntary liquidation.

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.

Session 2: Spelling

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|-----------------------------------|--|
| 1. in___t a computer with a virus | <i>v.</i> to affect a person, an animal, or a plant with a disease-causing organism |
| 2. chi_____ee behavior | <i>n.</i> a small, very intelligent ape found in west and central Africa with black or brown fur |
| 3. mo_____h butterflies | <i>n.</i> a person who rules a country, such as a king or queen |
| 4. an op_____ne remark | <i>adj.</i> suitable or happening at a time that is suitable or convenient for a particular purpose |
| 5. cat_____ar in a cocoon | <i>n.</i> the wormlike larva of a butterfly or moth |
| 6. det_____al eating habits | <i>adj.</i> causing harm or damage |
| 7. blood-sucking pa_____te | <i>n.</i> an organism that lives on or in another organism and benefits by deriving nutrients at the other's expense |
| 8. in___t other animal species | <i>v.</i> to affect a person, an animal, or a plant with a disease-causing organism |
| 9. sp__k of suspicion | <i>n.</i> a very small spot, piece, or amount |
| 10. la__a of a butterfly | <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. sp__e reproduction | <i>n.</i> a reproductive cell that is capable of developing into a new individual without fertilization, especially one produced by certain bacteria, fungi, and algae |

ANSWERS: 1. infect, 2. chimpanzee, 3. monarch, 4. opportune, 5. caterpillar, 6. detrimental, 7. parasite, 8. infect, 9. speck, 10. larva, 11. spore

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|-------------------------------|--|
| 12. a sp__k of dust | <i>n.</i> a very small spot, piece, or amount |
| 13. op_____ne occasion | <i>adj.</i> suitable or happening at a time that is suitable or convenient for a particular purpose |
| 14. me_____al chemistry | <i>adj.</i> of or relating to the treatment or cure of disease |
| 15. li_____an extension | <i>n.</i> the length of time for which a person, animal lives, or thing exists |
| 16. the cr_____or's claims | <i>n.</i> a person, company, etc. to whom a debtor owes money |
| 17. traditional me_____al | <i>adj.</i> of or relating to the treatment or cure of disease |
| 18. apex pr_____or | <i>n.</i> an animal whose natural behavior is to prey on others |
| 19. li_____an retrieval curve | <i>n.</i> the length of time for which a person, animal lives, or thing exists |
| 20. det_____al to good health | <i>adj.</i> causing harm or damage |
| 21. 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 |
| 22. an absolute mo_____h | <i>n.</i> a person who rules a country, such as a king or queen |
| 23. cat_____ar of a butterfly | <i>n.</i> the wormlike larva of a butterfly or moth |
| 24. anthrax sp__e | <i>n.</i> a reproductive cell that is capable of developing into a new individual without fertilization, especially one produced by certain bacteria, fungi, and algae |

ANSWERS: 12. speck, 13. opportune, 14. medicinal, 15. lifespan, 16. creditor, 17. medicinal, 18. predator, 19. lifespan, 20. detrimental, 21. larva, 22. monarch, 23. caterpillar, 24. spore

25. po_____ne movement *n.* a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas
26. pa_____te disease *n.* an organism that lives on or in another organism and benefits by deriving nutrients at the other's expense
27. pi__y personality *adj.* overly particular or selective, especially about food or other consumable goods; difficult to please or satisfy because of one's specific tastes or preferences
28. chi_____ee society *n.* a small, very intelligent ape found in west and central Africa with black or brown fur
29. sexual pr_____ors *n.* an animal whose natural behavior is to prey on others
30. the pa_____en in the air *n.* a bacterium, virus, or other microorganism that causes disease
31. po_____ne habitat *n.* a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas
32. plant pa_____en *n.* a bacterium, virus, or other microorganism that causes disease
33. pi__y about details *adj.* overly particular or selective, especially about food or other consumable goods; difficult to please or satisfy because of one's specific tastes or preferences
34. bankrupt cr_____or *n.* a person, company, etc. to whom a debtor owes money

ANSWERS: 25. porcupine, 26. parasite, 27. picky, 28. chimpanzee, 29. predator, 30. pathogen, 31. porcupine, 32. pathogen, 33. picky, 34. creditor

ANSWERS:

Session 3: Fill in the Blanks

1. 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
2. The new policy had a _____ impact on small businesses.
adj. causing harm or damage
3. I asked the lawyer to initiate _____ negotiations for voluntary liquidation.
n. a person, company, etc. to whom a debtor owes money
4. The plane was just a _____ in the sky.
n. a very small spot, piece, or amount
5. 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
6. Bacteria and some algae also produce _____ as a means of survival and dispersal, and they are often found in soil, water, and other environments.
n. a reproductive cell that is capable of developing into a new individual without fertilization, especially one produced by certain bacteria, fungi, and algae
7. My _____ eater only likes to eat certain types of vegetables.
adj. overly particular or selective, especially about food or other consumable goods; difficult to please or satisfy because of one's specific tastes or preferences
8. mRNA vaccines are approved faster because they do not contain inactivated _____.
n. a bacterium, virus, or other microorganism that causes disease

ANSWERS: 1. parasites, 2. detrimental, 3. creditor, 4. speck, 5. larva, 6. spores, 7. picky, 8. pathogens

9. The native South American animals were in danger because of the _____ arrival.
n. an animal whose natural behavior is to prey on others
10. Generally speaking, men have a shorter _____ than women.
n. the length of time for which a person, animal lives, or thing exists
11. The quills on a _____ back are used for defense.
n. a large, slow-moving, spiny mammal that is covered in sharp quills and is native to Asia, Africa, and certain parts of the Americas
12. Many zoos have _____ exhibits, allowing visitors to observe these intelligent primates up close.
n. a small, very intelligent ape found in west and central Africa with black or brown fur
13. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease
14. The woolly bear _____ munched on leaves all day.
n. the wormlike larva of a butterfly or moth
15. Children often _____ parents with this head cold.
v. to affect a person, an animal, or a plant with a disease-causing organism
16. She came from a commoner background but eventually became the _____ of that country.
n. a person who rules a country, such as a king or queen

ANSWERS: 9. predator's, 10. lifespan, 11. porcupine's, 12. chimpanzee, 13. medicinal, 14. caterpillar, 15. infect, 16. monarch

17. The phone rang at the most _____ time.

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

ANSWERS: 17. opportune