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Joao Pedro de Magalhaes: Why do animals have such different lifespans? | TED Talk

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

Advanced Words Only

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Session 1: Word List

microscopic

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

synonym : infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

equate

v. to consider or describe one thing as similar, equal, or analogous

synonym : associate, liken, relate

(1) **equate** mistakes with failure, (2) **equate** to legal responsibility

It isn't very reasonable to **equate** money with happiness.

tortoise

n. a slow-moving, herbivorous reptile characterized by a hard shell that protects its body; many species of tortoise are long-lived and have lifespans of over 100 years

synonym : turtle, chelonian

(1) giant **tortoise**, (2) **tortoise** shell

The Galapagos **tortoise** is a fascinating creature with a long lifespan.

bowhead

n. a large, baleen whale species typically found in Arctic and subarctic regions, known for its distinctive, arched upper jaw

synonym : whale, marine mammal

(1) Arctic **bowhead**, (2) **bowhead** hunt

The **bowhead** whale is known for its massive size and long lifespan.

degenerate

v. (of a person, animal, or plant) to become worse in health or physical condition

synonym : deteriorate, decline, decay

(1) **degenerate** into a disagreement, (2) **degenerate** into recession

The once-thriving city has **degenerated** into a crime-ridden slum.

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.

arctic

adj. of or relating to the region around the North Pole or the Arctic Ocean; very cold

synonym : cold, frozen, polar

(1) **arctic** ice, (2) high **arctic**

Cold temperatures and long, dark winters characterize the **arctic** climate.

clam

n. a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness

(1) giant **clam**, (2) shuck a **clam**

The **clam** digs through the sand to a significant depth.

sponge

n. a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing

and cleaning

(1) sea **sponge**, (2) metallic **sponge**

The tiny marine **sponge** has existed for more than 500 million years.

frigid

adj. extremely cold; lacking warmth or passion; emotionally detached or unresponsive

synonym: frosty, icy, glacial

(1) **frigid** climate, (2) **frigid** air

I had to wear multiple layers to survive the **frigid** temperatures outside.

heartbeat

n. the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force

synonym: beat, pulse, force

(1) **heartbeat** abnormality, (2) a pounding **heartbeat**

New York is the commercial **heartbeat** of America.

longevity

n. the property of being long-lived; significant duration of service

synonym: seniority, endurance

(1) **longevity** crisis, (2) **longevity** genes

He is proud of the **longevity** of the business.

vole

n. a small, burrowing rodent belonging to the family Cricetidae. Voles are similar to mice and typically have a stout body and a short tail, and are often found in grassy or wooded areas

synonym: field mouse, mouse, rodent

(1) **vole** population, (2) meadow **vole**

The woodland **vole** burrowed underground to hide from predators.

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.

fender

n. a barrier that surrounds the wheels of a vehicle to block splashing water or mud; a cushion-like device that reduces shock due to an impact

synonym: cover, bumper, cushion

(1) front **fender**, (2) vehicle **fender**

He had a **fender** bender last night.

mole

n. small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin

(1) **mole** catcher, (2) **mole** planted by the FBI

The **mole** burrowed in the ground.

discrepancy

n. a lack of consistency or agreement between two or more facts, figures, or sets of information; a disagreement, inconsistency, or divergence

synonym: inconsistency, difference, disparity

(1) significant **discrepancy**, (2) a **discrepancy** in the report

There is a **discrepancy** between the study's findings and the collected data.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

inhabitant

n. a person or an animal that lives in a particular place

synonym: dweller, occupant, resident

(1) the early **inhabitants** of Europe, (2) **inhabitant** tax

His family is the oldest **inhabitant** of the island.

Session 2: Spelling

1. shuck a c__m *n.* a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness
2. to____se shell *n.* a slow-moving, herbivorous reptile characterized by a hard shell that protects its body; many species of tortoise are long-lived and have lifespans of over 100 years
3. lo_____ty crisis *n.* the property of being long-lived; significant duration of service
4. giant to____se *n.* a slow-moving, herbivorous reptile characterized by a hard shell that protects its body; many species of tortoise are long-lived and have lifespans of over 100 years
5. ar___c ice *adj.* of or relating to the region around the North Pole or the Arctic Ocean; very cold
6. hu_____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee
7. bo_____d hunt *n.* a large, baleen whale species typically found in Arctic and subarctic regions, known for its distinctive, arched upper jaw
8. hu_____g bird *adj.* producing a continuous, low, vibrating sound like that of the bee
9. m__e planted by the FBI *n.* small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin

ANSWERS: 1. clam, 2. tortoise, 3. longevity, 4. tortoise, 5. arctic, 6. humming, 7. bowhead, 8. humming, 9. mole

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|--------------------------------|---|
| 10. a dis_____cy in the report | <i>n.</i> a lack of consistency or agreement between two or more facts, figures, or sets of information; a disagreement, inconsistency, or divergence |
| 11. inh_____nt tax | <i>n.</i> a person or an animal that lives in a particular place |
| 12. metallic sp____e | <i>n.</i> a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning |
| 13. m__e catcher | <i>n.</i> small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin |
| 14. v__e population | <i>n.</i> a small, burrowing rodent belonging to the family Cricetidae. Voles are similar to mice and typically have a stout body and a short tail, and are often found in grassy or wooded areas |
| 15. sexual pr_____ors | <i>n.</i> an animal whose natural behavior is to prey on others |
| 16. meadow v__e | <i>n.</i> a small, burrowing rodent belonging to the family Cricetidae. Voles are similar to mice and typically have a stout body and a short tail, and are often found in grassy or wooded areas |
| 17. sea sp____e | <i>n.</i> a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning |

ANSWERS: 10. discrepancy, 11. inhabitant, 12. sponge, 13. mole, 14. vole, 15. predator, 16. vole, 17. sponge

18. he_____at abnormality *n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force
19. li_____an extension *n.* the length of time for which a person, animal lives, or thing exists
20. mic_____ic inquiry *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
21. eq___e to legal responsibility *v.* to consider or describe one thing as similar, equal, or analogous
22. front fe___r *n.* a barrier that surrounds the wheels of a vehicle to block splashing water or mud; a cushion-like device that reduces shock due to an impact
23. a pounding he_____at *n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force
24. apex pr_____or *n.* an animal whose natural behavior is to prey on others
25. fr___d climate *adj.* extremely cold; lacking warmth or passion; emotionally detached or unresponsive
26. high ar___c *adj.* of or relating to the region around the North Pole or the Arctic Ocean; very cold
27. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
28. significant dis_____cy *n.* a lack of consistency or agreement between two or more facts, figures, or sets of information; a disagreement, inconsistency, or divergence

ANSWERS: 18. heartbeat, 19. lifespan, 20. microscopic, 21. equate, 22. fender, 23. heartbeat, 24. predator, 25. frigid, 26. arctic, 27. microscopic, 28. discrepancy

29. giant c__m *n.* a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness
30. Arctic bo____d *n.* a large, baleen whale species typically found in Arctic and subarctic regions, known for its distinctive, arched upper jaw
31. the early inh____nts of Europe *n.* a person or an animal that lives in a particular place
32. deg____te into a disagreement *v.* (of a person, animal, or plant) to become worse in health or physical condition
33. fr____d air *adj.* extremely cold; lacking warmth or passion; emotionally detached or unresponsive
34. vehicle fe____r *n.* a barrier that surrounds the wheels of a vehicle to block splashing water or mud; a cushion-like device that reduces shock due to an impact
35. eq____e mistakes with failure *v.* to consider or describe one thing as similar, equal, or analogous
36. deg____te into recession *v.* (of a person, animal, or plant) to become worse in health or physical condition
37. li____an retrieval curve *n.* the length of time for which a person, animal lives, or thing exists
38. lo____ty genes *n.* the property of being long-lived; significant duration of service

ANSWERS: 29. clam, 30. bowhead, 31. inhabitant, 32. degenerate, 33. frigid, 34. fender, 35. equate, 36. degenerate, 37. lifespan, 38. longevity

Session 3: Fill in the Blanks

1. The _____ of the bees filled the air as she walked through the garden.
adj. producing a continuous, low, vibrating sound like that of the bee
2. It isn't very reasonable to _____ money with happiness.
v. to consider or describe one thing as similar, equal, or analogous
3. I had to wear multiple layers to survive the _____ temperatures outside.
adj. extremely cold; lacking warmth or passion; emotionally detached or unresponsive
4. He is proud of the _____ of the business.
n. the property of being long-lived; significant duration of service
5. The _____ digs through the sand to a significant depth.
n. a marine mollusk that burrows and lives on sand or mud, the shell closes with viselike firmness
6. He had a _____ bender last night.
n. a barrier that surrounds the wheels of a vehicle to block splashing water or mud; a cushion-like device that reduces shock due to an impact
7. His family is the oldest _____ of the island.
n. a person or an animal that lives in a particular place
8. The once-thriving city has _____ into a crime-ridden slum.
v. (of a person, animal, or plant) to become worse in health or physical condition

ANSWERS: 1. humming, 2. equate, 3. frigid, 4. longevity, 5. clam, 6. fender, 7. inhabitant, 8. degenerated

9. Generally speaking, men have a shorter _____ than women.
n. the length of time for which a person, animal lives, or thing exists
10. The _____ burrowed in the ground.
n. small velvety-furred burrowing mammal having small eyes and fossorial forefeet; a spy who works against enemy espionage; a small congenital pigmented spot on the skin
11. The Galapagos _____ is a fascinating creature with a long lifespan.
n. a slow-moving, herbivorous reptile characterized by a hard shell that protects its body; many species of tortoise are long-lived and have lifespans of over 100 years
12. The _____ whale is known for its massive size and long lifespan.
n. a large, baleen whale species typically found in Arctic and subarctic regions, known for its distinctive, arched upper jaw
13. The tiny marine _____ has existed for more than 500 million years.
n. a soft material with many microscopic pores that can absorb a large amount of liquid and is used for washing and cleaning
14. Inspectors noticed _____ cracks in the submarine's hull.
adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy
15. There is a _____ between the study's findings and the collected data.
n. a lack of consistency or agreement between two or more facts, figures, or sets of information; a disagreement, inconsistency, or divergence
16. Cold temperatures and long, dark winters characterize the _____ climate.
adj. of or relating to the region around the North Pole or the Arctic Ocean; very cold

ANSWERS: 9. lifespan, 10. mole, 11. tortoise, 12. bowhead, 13. sponge, 14. microscopic, 15. discrepancy, 16. arctic

17. The woodland _____ burrowed underground to hide from predators.
- n.* a small, burrowing rodent belonging to the family Cricetidae. Voles are similar to mice and typically have a stout body and a short tail, and are often found in grassy or wooded areas
18. The native South American animals were in danger because of the _____ arrival.
- n.* an animal whose natural behavior is to prey on others
19. New York is the commercial _____ of America.
- n.* the regular movement or sound of the heart as it sends blood around the body; an animating or vital unifying force

ANSWERS: 17. vole, 18. predator's, 19. heartbeat