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Dan Finkel: Can you solve the honeybee riddle? |

TED Talk

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

All Words

IMPORTANT

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Session 1: Word List

biology

n. the scientific study of life and the natural processes of living things

(1) evolutionary **biology**, (2) cell and molecular **biology**

In junior high school, we had to dissect a frog in **biology** class.

honeybee

n. a type of bee that is known for producing honey and pollinating flowers

synonym : apis mellifera

(1) **honeybee** colony, (2) aggressive **honeybee**

The **honeybee** hive is organized into a caste system, with a queen, drones, and workers.

trifecta

n. a situation in which three things or events occur together, especially in a particular sequence, often used in the context of horse racing, where it refers to picking the first three finishers in a race in the correct order

synonym : hat trick, triple

(1) **trifecta** of evil, (2) **trifecta** bet

The chef's **trifecta** of appetizers was a hit at the dinner party.

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.

terrarium

n. a container or enclosure, usually made of glass or transparent plastic, used for keeping and observing small plants, animals, or insects

synonym: vivarium, aquarium, enclosure

(1) lizard **terrarium**, (2) **terrarium** plants

She made a **terrarium** for her classroom to observe the plants and insects.

construct

v. to build or create something; to assemble or combine different parts to form something whole

synonym: build, assemble, create

(1) **construct** a 3D image, (2) **construct** a dam

He **constructs** hypotheses that no mathematician has ever imagined before.

frame

n. a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window

synonym: body, skeleton, scaffolding

(1) a picture **frame**, (2) the **frame** of the policy

The detective looked for fingerprints on the window **frame**.

beehive

n. a structure or container where bees live and store their honey

synonym: hive, apiary, honeycomb

(1) disturb a **beehive**, (2) get rid of a **beehive**

The beekeeper checked the **beehive** for any signs of disease.

hex

n. a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base

synonym: jinx, curse, hexadecimal

(1) **hex** sign, (2) a **hex** format

Some people believe that the **hex** placed on their house is causing strange and unexplained occurrences.

wax

n. a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large

(1) **wax** finish, (2) **wax** and wane

He sealed the letter with a **wax** seal.

unfilled

adj. not having become or been made full

synonym: vacant, empty

(1) an **unfilled** space, (2) **unfilled** orders

He jotted down business ideas on an **unfilled** space at the beginning of a receipt.

hive

n. a structure for the reception and habitation of bees, either built by people or made by the bees themselves; a place swarming people

synonym: apiary, swarm, pack

(1) honeybees in **hives**, (2) a **hive** of activity

Bees were buzzing around the **hive**

transform

v. to change in outward structure or looks;

synonym: alter, convert, change

(1) **transform** an education system, (2) **transform** heat into power

My father's death **transformed** my life completely.

addition

n. the act or process of adding something to something else; the process of adding numbers

synonym: accumulation, expansion, addendum

(1) chemical **addition**, (2) **addition** of vectors

In **addition**, private corporations provide healthcare services.

eventually

adv. finally, particularly after a long time or a lot of struggle, complications, and so on

synonym : finally, someday, ultimately

(1) **eventually** become obsolete, (2) **eventually** succeed
The corporation **eventually** dominated the entire tobacco business.

collapse

v. to fall down or give way suddenly, often after breaking apart

synonym : tumble, spill, bankruptcy

(1) the stock market **collapsed**, (2) ready to **collapse**
The roof finally **collapsed** after three days and three nights of heavy snowfall.

viable

adj. capable of being done as intended; able to succeed

synonym : feasible, possible, attainable

(1) achieve a **viable** relationship, (2) develop a **viable** therapy

Male gorillas with good drumming skills are more **viable**.

pause

v. to take a short break from talking or doing something before continuing

synonym : halt, break, intermit

(1) **pause** a moment, (2) **pause** for a reaction

The man **paused** before opening the door.

sustain

v. to supply enough of what somebody or something needs to survive or exist; to accept as valid

synonym : maintain, nurture, support

(1) **sustain** a good relationship with him, (2) **sustain** a wellness lifestyle

She struggled to **sustain** the children's reading habits.

reaction

n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others

synonym : response, reply, answer

(1) chemical **reaction**, (2) trigger a **reaction**

There was a chemical **reaction** of the lime with the groundwater.

engineer

n. a person whose job is designing, building, or maintaining something such as machines, structures, or software
synonym: architect, creator, builder

(1) a civil **engineer**, (2) **engineer** shortage

The **engineer** will repair my telephone tomorrow morning.

examine

v. to study or consider a person or object attentively and thoroughly to learn something about them

synonym: study, probe, analyze

(1) **examine** the data studiously, (2) **examine** the issue

Initially, we must **examine** all project-related expenses.

perimeter

n. the outer boundary of an area or the length of this boundary; the distance around the edge of something

synonym: circumference, boundary, edge

(1) **perimeter** fence, (2) **perimeter** fence

The guard patrolled the **perimeter** of the building.

suppose

v. to think that something is likely to be actual or possible

synonym: guess, assume, presume

(1) **suppose** you're right, (2) **suppose** beforehand

What do you **suppose** the culprit's motive was?

shrink

v. to become smaller, or to make something smaller in size or amount

synonym: decrease, diminish, shy away

(1) **shrink** the tumor, (2) **shrink** with fear

This shirt will **shrink** in the wash.

divide

v. to separate or cause to separate into parts or groups

synonym: separate, disconnect, split

(1) **divide** the cake into two pieces, (2) **divide** money equally

Can you **divide** 123321 by eleven?

adjacent

adj. next to, close to, or adjoining something

synonym: next, adjoining, neighboring

(1) **adjacent** to his house, (2) **adjacent** houses

Our country has military alliances with **adjacent** countries.

slightly

adv. in a small degree or extent; a little

synonym: barely, narrowly, scarcely

(1) increase **slightly**, (2) **slightly** alkaline soils

He moved his body **slightly** to the left.

spot

n. a particular location or place; a small round or roundish area, differing in color or feels from the surface around it

synonym: dot, mark, place

(1) beauty **spot**, (2) a **spot** on his honor

This remote **spot** is rarely visited.

extend

v. to broaden in scope, range, or area

synonym: prolong, lengthen, advance

(1) **extend** the warranty, (2) **extend** a line

Her visit will **extend** from Monday to Friday.

Session 2: Spelling

1. ex_____e the data studiously *v.* to study or consider a person or object attentively and thoroughly to learn something about them
2. ad_____nt to his house *adj.* next to, close to, or adjoining something
3. su_____e beforehand *v.* to think that something is likely to be actual or possible
4. sh____k with fear *v.* to become smaller, or to make something smaller in size or amount
5. tr_____rm an education system *v.* to change in outward structure or looks;
6. a picture fr__e *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
7. te_____um plants *n.* a container or enclosure, usually made of glass or transparent plastic, used for keeping and observing small plants, animals, or insects
8. sl_____ly alkaline soils *adv.* in a small degree or extent; a little
9. a s__t on his honor *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
10. tr_____ta bet *n.* a situation in which three things or events occur together, especially in a particular sequence, often used in the context of horse racing, where it refers to picking the first three finishers in a race in the correct order

ANSWERS: 1. examine, 2. adjacent, 3. suppose, 4. shrink, 5. transform, 6. frame, 7. terrarium, 8. slightly, 9. spot, 10. trifecta

11. tr____ta of evil *n.* a situation in which three things or events occur together, especially in a particular sequence, often used in the context of horse racing, where it refers to picking the first three finishers in a race in the correct order
12. h_x sign *n.* a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base
13. pa__e a moment *v.* to take a short break from talking or doing something before continuing
14. pe_____er fence *n.* the outer boundary of an area or the length of this boundary; the distance around the edge of something
15. w_x finish *n.* a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large
16. ho_____ee colony *n.* a type of bee that is known for producing honey and pollinating flowers
17. evolutionary bi_____y *n.* the scientific study of life and the natural processes of living things
18. su_____n a good relationship with him *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
19. get rid of a be_____e *n.* a structure or container where bees live and store their honey

ANSWERS: 11. trifecta, 12. hex, 13. pause, 14. perimeter, 15. wax, 16. honeybee, 17. biology, 18. sustain, 19. beehive

20. eve_____ly succeed *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
21. en_____er shortage *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
22. co_____ct a dam *v.* to build or create something; to assemble or combine different parts to form something whole
23. pa__e for a reaction *v.* to take a short break from talking or doing something before continuing
24. a h_x format *n.* a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base
25. disturb a be_____e *n.* a structure or container where bees live and store their honey
26. ex___d the warranty *v.* to broaden in scope, range, or area
27. ex___d a line *v.* to broaden in scope, range, or area
28. lizard te_____um *n.* a container or enclosure, usually made of glass or transparent plastic, used for keeping and observing small plants, animals, or insects
29. long-ex_____t volcano *adj.* no longer in existence
30. a h__e of activity *n.* a structure for the reception and habitation of bees, either built by people or made by the bees themselves; a place swarming people
31. un_____ed orders *adj.* not having become or been made full

ANSWERS: 20. eventually, 21. engineer, 22. construct, 23. pause, 24. hex, 25. beehive, 26. extend, 27. extend, 28. terrarium, 29. extinct, 30. hive, 31. unfilled

32. ad____nt houses *adj.* next to, close to, or adjoining something
33. cell and molecular bi____y *n.* the scientific study of life and the natural processes of living things
34. eve_____ly become obsolete *adv.* finally, particularly after a long time or a lot of struggle, complications, and so on
35. w_x and wane *n.* a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large
36. ad_____on of vectors *n.* the act or process of adding something to something else; the process of adding numbers
37. co_____ct a 3D image *v.* to build or create something; to assemble or combine different parts to form something whole
38. beauty s__t *n.* a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
39. develop a vi___e therapy *adj.* capable of being done as intended; able to succeed
40. honeybees in h__es *n.* a structure for the reception and habitation of bees, either built by people or made by the bees themselves; a place swarming people
41. increase sl_____ly *adv.* in a small degree or extent; a little
42. tr_____rm heat into power *v.* to change in outward structure or looks;
43. di___e the cake into two pieces *v.* to separate or cause to separate into parts or groups

ANSWERS: 32. adjacent, 33. biology, 34. eventually, 35. wax, 36. addition, 37. construct, 38. spot, 39. viable, 40. hive, 41. slightly, 42. transform, 43. divide

44. di___e money equally *v.* to separate or cause to separate into parts or groups
45. achieve a vi___e relationship *adj.* capable of being done as intended; able to succeed
46. trigger a re____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
47. the fr___e of the policy *n.* a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
48. su____n a wellness lifestyle *v.* to supply enough of what somebody or something needs to survive or exist; to accept as valid
49. su____e you're right *v.* to think that something is likely to be actual or possible
50. a civil en____er *n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
51. an un____ed space *adj.* not having become or been made full
52. ready to co____se *v.* to fall down or give way suddenly, often after breaking apart
53. sh___k the tumor *v.* to become smaller, or to make something smaller in size or amount
54. the stock market co____sed *v.* to fall down or give way suddenly, often after breaking apart
55. ex____t by human activity *adj.* no longer in existence

ANSWERS: 44. divide, 45. viable, 46. reaction, 47. frame, 48. sustain, 49. suppose, 50. engineer, 51. unfilled, 52. collapse, 53. shrink, 54. collapse, 55. extinct

56. chemical ad____on *n.* the act or process of adding something to something else; the process of adding numbers
57. chemical re____on *n.* a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
58. aggressive ho____ee *n.* a type of bee that is known for producing honey and pollinating flowers
59. ex____e the issue *v.* to study or consider a person or object attentively and thoroughly to learn something about them

ANSWERS: 56. addition, 57. reaction, 58. honeybee, 59. examine

Session 3: Fill in the Blanks

1. She made a _____ for her classroom to observe the plants and insects.
n. a container or enclosure, usually made of glass or transparent plastic, used for keeping and observing small plants, animals, or insects

2. In _____ private corporations provide healthcare services.
n. the act or process of adding something to something else; the process of adding numbers

3. My father's death _____ my life completely.
v. to change in outward structure or looks;

4. The roof finally _____ after three days and three nights of heavy snowfall.
v. to fall down or give way suddenly, often after breaking apart

5. He jotted down business ideas on an _____ space at the beginning of a receipt.
adj. not having become or been made full

6. Many species have become _____ due to habitat destruction and other human activities.
adj. no longer in existence

7. The guard patrolled the _____ of the building.
n. the outer boundary of an area or the length of this boundary; the distance around the edge of something

8. Her visit will _____ from Monday to Friday.
v. to broaden in scope, range, or area

ANSWERS: 1. terrarium, 2. addition, 3. transformed, 4. collapsed, 5. unfilled, 6. extinct, 7. perimeter, 8. extend

9. She struggled to _____ the children's reading habits.
- v. to supply enough of what somebody or something needs to survive or exist; to accept as valid
10. He _____ hypotheses that no mathematician has ever imagined before.
- v. to build or create something; to assemble or combine different parts to form something whole
11. There was a chemical _____ of the lime with the groundwater.
- n. a response that reveals a person's feelings or attitude; (in chemistry) a process in which one or more substances are changed into others
12. The _____ hive is organized into a caste system, with a queen, drones, and workers.
- n. a type of bee that is known for producing honey and pollinating flowers
13. What do you _____ the culprit's motive was?
- v. to think that something is likely to be actual or possible
14. This remote _____ is rarely visited.
- n. a particular location or place; a small round or roundish area, differing in color or feels from the surface around it
15. He moved his body _____ to the left.
- adv. in a small degree or extent; a little
16. Some people believe that the _____ placed on their house is causing strange and unexplained occurrences.
- n. a spell or curse that is believed to bring bad luck or harm to someone; (adjective) of or relating to a number system having 16 as its base

ANSWERS: 9. sustain, 10. constructs, 11. reaction, 12. honeybee, 13. suppose, 14. spot, 15. slightly, 16. hex

17. Our country has military alliances with _____ countries.
adj. next to, close to, or adjoining something
18. The detective looked for fingerprints on the window _____.
n. a strong border or structure of the wood, metal, etc. that surrounds something such as a picture, door, or window
19. This shirt will _____ in the wash.
v. to become smaller, or to make something smaller in size or amount
20. Can you _____ 123321 by eleven?
v. to separate or cause to separate into parts or groups
21. The corporation _____ dominated the entire tobacco business.
adv. finally, particularly after a long time or a lot of struggle, complications, and so on
22. He sealed the letter with a ___ seal.
n. a substance that is solid at room temperature but becomes softer and more pliable when heated, often used in the production of candles, polishes, and cosmetics; (verb) to become large
23. The beekeeper checked the _____ for any signs of disease.
n. a structure or container where bees live and store their honey
24. Male gorillas with good drumming skills are more _____.
adj. capable of being done as intended; able to succeed
25. Initially, we must _____ all project-related expenses.
v. to study or consider a person or object attentively and thoroughly to learn something about them

ANSWERS: 17. adjacent, 18. frame, 19. shrink, 20. divide, 21. eventually, 22. wax, 23. beehive, 24. viable, 25. examine

26. The chef's _____ of appetizers was a hit at the dinner party.
- n.* a situation in which three things or events occur together, especially in a particular sequence, often used in the context of horse racing, where it refers to picking the first three finishers in a race in the correct order
27. In junior high school, we had to dissect a frog in _____ class.
- n.* the scientific study of life and the natural processes of living things
28. The _____ will repair my telephone tomorrow morning.
- n.* a person whose job is designing, building, or maintaining something such as machines, structures, or software
29. The man _____ before opening the door.
- v.* to take a short break from talking or doing something before continuing
30. Bees were buzzing around the _____
- n.* a structure for the reception and habitation of bees, either built by people or made by the bees themselves; a place swarming people

ANSWERS: 26. trifecta, 27. biology, 28. engineer, 29. paused, 30. hive