Englist.me

Vocabulary Builder Reference from...

Julian Burschka: Could a breathalyzer detect cancer? | TED Talk

https://www.ted.com/talks/julian_burschka_could_a_b reathalyzer_detect_cancer



Advanced Words Only

IMPORTANT

This material is a commentary and does not contain any copyrighted material of the reference source. We strongly recommend accessing/buying the reference source at the same time.

Session 1: Word List

breathalyzer

n. a device that measures the level of alcohol in a person's breath, typically used by law enforcement to determine if someone is driving under the influence of alcohol

synonym: breath test, intoxilyzer, alcohol test

breathalyzer result, (2) breathalyzer device
 The police officer administered a breathalyzer test to the driver suspected of drunk driving.

exhale

v. to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently

synonym: breathe out, expel, emit

(1) **exhale** a big sigh, (2) **exhale** cigarette smoke He took a deep breath and slowly began to **exhale**.

bloodstream

- n. the blood flowing through the body
- (1) **bloodstream** in an artery, (2) **bloodstream** to the brain Cancer cells are often carried throughout the body by the **bloodstream**.

sac

 a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant

synonym: bag, pouch, knapsack

(1) sac contents, (2) abdominal sac

I placed my valuables in the **sac** before heading out on my hike.

acetic

adj. relating to vinegar or containing acetic acid (= a colorless, pungent-smelling liquid organic compound with the chemical formula CH3COOH); having a sour or sharp taste or smell resembling vinegar

synonym: sour, acidic, tart

(1) acetic fermentation, (2) acetic smell

Adding **acetic** acid to a solution can lower its pH.

biochemical

adj. relating to the chemical processes and substances that occur within living organisms

synonym: molecular, biological

(1) **biochemical** reaction, (2) complex **biochemical Biochemical** research is essential to understanding the complex chemical reactions in living organisms.

disrupt

v. to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance

synonym: interrupt, disturb, break into

(1) **disrupt** a well-ordered condition, (2) **disrupt** sleep I'm so sorry to **disrupt** you when you're pretty busy.

biopsy

n. the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease

synonym: examination, autopsy

biopsy of bone marrow, (2) liquid biopsy
 The doctor performed an excisional breast biopsy.

glycolysis

n. the process by which glucose is broken down and converted into energy within cells, typically occurring in the cytoplasm and producing two molecules of ATP as well as other byproducts

synonym

: sugar breakdown, glucose metabolism

(1) aerobic **glycolysis**, (2) cancer **glycolysis Glycolysis** regulation is a key aspect of energy metabolism in all cells.

metabolite

 a substance produced by metabolic processes in living organisms, especially those that are essential for normal physiological functions

synonym: intermediate

(1) **metabolite** concentration, (2) drug **metabolite** The liver **metabolite** levels were higher than usual.

lactation

- n. the secretion of milk by the mammary glands of a female mammal, typically the following pregnancy
 amount pursing broastfooding milk production
- synonym: nursing, breastfeeding, milk production
- (1) **lactation** period, (2) **lactation** support
 After giving birth, the mother's body produces milk through **lactation**.

cascade

- n. a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
 synonym: waterfall, watercourse, step
- cascade connection, (2) transistor cascade
 The cascade of waterfalls in the national park was a breathtaking sight.

dimethyl

- a chemical compound containing two methyl groups
 (CH3-) bound to a single carbon atom, often used as a building block for larger organic molecules
- (1) **dimethyl** sulfate, (2) **dimethyl** ether In organic chemistry, **dimethyl** formamide is often used as a reagent and solvent.

rev

 a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute synonym: revolution, RPM, speed

(1) low- **rev** engine, (2) **rev** up the crowd He stepped on the gas pedal, and the engine released a loud **rev**.

inhale

- v. to breathe in air or a different substance, such as smoke synonym: breathe in, take in, draw in
- (1) **inhale** the smoke, (2) **inhale** the aroma He **inhaled** deeply, trying to calm down.

Session 2: Spelling

aerobic gly____is

1.

			cells, typically occurring in the cytoplasm and producing two molecules of ATP as well as other byproducts
2.	complex bioal	adj.	relating to the chemical processes and substances that occur within living organisms
_			

 a chemical compound containing two methyl groups (CH3-) bound to a single carbon atom, often used as a building block for larger organic molecules

the process by which glucose is broken

- v. to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
- the secretion of milk by the mammary glands of a female mammal, typically the following pregnancy
- n. a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
- v. to breathe in air or a different substance, such as smoke
- a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units

di____yl sulfate
 ex___e a big sigh
 la____on period
 r_v up the crowd
 in___e the smoke
 ca____e connection

ANSWERS: 1. glycolysis, 2. biochemical, 3. dimethyl, 4. exhale, 5. lactation, 6. rev, 7. inhale, 8. cascade

9.	exe cigarette smoke	<i>v</i> .	to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently
10.	transistor cae	n.	a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
11.	bloam to the brain	n.	the blood flowing through the body
12.	acc fermentation	adj.	relating to vinegar or containing acetic acid (= a colorless, pungent-smelling liquid organic compound with the chemical formula CH3COOH); having a sour or sharp taste or smell resembling vinegar
13.	biy of bone marrow	n.	the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
14.	abdominal s_c	n.	a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant
15.	diyl ether	n.	a chemical compound containing two methyl groups (CH3-) bound to a single carbon atom, often used as a building block for larger organic molecules
16.	brezer result	n.	a device that measures the level of alcohol in a person's breath, typically used by law enforcement to determine if someone is driving under the influence of alcohol

ANSWERS: 9. exhale, 10. cascade, 11. bloodstream, 12. acetic, 13. biopsy, 14. sac, 15. dimethyl, 16. breathalyzer

17. dit a well-ordered condition	v.	to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
18. mette concentration	n.	a substance produced by metabolic processes in living organisms, especially those that are essential for normal physiological functions
19. dit sleep	v.	to prevent or stop something, especially an event, activity, or process, from continuing in the usual way by causing a problem or disturbance
20. drug mette	n.	a substance produced by metabolic processes in living organisms, especially those that are essential for normal physiological functions
21. brezer device	n.	a device that measures the level of alcohol in a person's breath, typically used by law enforcement to determine if someone is driving under the influence of alcohol
22. liquid biy	n.	the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
23. acc smell	adj.	relating to vinegar or containing acetic acid (= a colorless, pungent-smelling liquid organic compound with the chemical formula CH3COOH); having a sour or sharp taste or smell resembling vinegar

ANSWERS: 17. disrupt, 18. metabolite, 19. disrupt, 20. metabolite, 21. breathalyzer, 22. biopsy, 23. acetic

24.	cancer glyis	n.	the process by which glucose is broken down and converted into energy within cells, typically occurring in the cytoplasm and producing two molecules of ATP as well as other byproducts
25.	s_c contents	n.	a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant
26.	laon support	n.	the secretion of milk by the mammary glands of a female mammal, typically the following pregnancy
27.	ine the aroma	<i>v</i> .	to breathe in air or a different substance, such as smoke
28.	bioal reaction	adj.	relating to the chemical processes and substances that occur within living organisms
29.	low-r_v engine	n.	a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
30.	bloam in an artery	n.	the blood flowing through the body

ANSWERS: 24. glycolysis, 25. sac, 26. lactation, 27. inhale, 28. biochemical, 29. rev, 30. bloodstream

Session 3: Fill in the Blanks

1.	He stepped on the gas pedal, and the engine released a loud
n.	a measure of the rate at which an engine or motor rotates, often expressed in revolutions per minute (RPM); (verb) to increase the number of rotations per minute
2.	The of waterfalls in the national park was a breathtaking sight.
n.	a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
3.	I placed my valuables in the before heading out on my hike.
n.	a bag or pouch, typically made of fabric or leather, used to hold something valuable or important; a structure resembling a bag in an animal or plant
4.	Adding acid to a solution can lower its pH.
adj	relating to vinegar or containing acetic acid (= a colorless, pungent-smelling liquid organic compound with the chemical formula CH3COOH); having a sour or sharp taste or smell resembling vinegar
5.	research is essential to understanding the complex chemical reactions in living organisms.
adj	relating to the chemical processes and substances that occur within living organisms
6.	He deeply, trying to calm down.
v.	to breathe in air or a different substance, such as smoke
7.	The doctor performed an excisional breast
n.	the process of removing and examining tissue from the body of the sick person to determine the existence or cause of a disease
AN:	SWERS: 1. rev, 2. cascade, 3. sac, 4. acetic, 5. Biochemical, 6. inhaled, 7. biopsy

ANSWERS: 8. disrupt, 9. bloodstream, 10. breathalyzer, 11. metabolite, 12. Glycolysis, 13. lactation, 14. dimethyl

- 15. He took a deep breath and slowly began to _____.
 - v. to breathe out air or vapor from the lungs or mouth; to release or emit something slowly or gently

ANSWERS: 15. exhale