

Englist.me



Vocabulary Builder Reference from...

Ethan Mann: How sharks could inspire a new generation of medical devices | TED Talk
https://www.ted.com/talks/ethan_mann_how_sharks_could_inspire_a_new_generation_of_medical_device
s

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

seafarer

n. a person who works at sea, especially on a merchant ship or a navy vessel; a person who is experienced in sailing or navigating on the sea

synonym: sailor, mariner, navigator

(1) qualified **seafarer**, (2) fellow **seafarer**

The experienced **seafarer** told stories of his adventures on the high seas.

algae

n. A simple plant that grows in or near water and lacks typical leaves and roots

(1) **algae** biofuel, (2) blue **algae**

Algae has jammed the inlet to the water turbine.

barnacle

n. a type of crustacean that attaches itself to hard surfaces underwater, such as rocks, ships, or docks; a metaphorical term used to describe a person or object that is difficult to remove or separate from another person or object

synonym: cirripede, shellfish, crustacean

(1) **barnacle** growth, (2) **barnacle** removal

The bottom of the boat was covered in **barnacles**, slowing its speed in the water.

devise

v. to come up with an idea, plan, theory, etc., using your intelligence or imagination

synonym : create, concoct, invent

(1) **devise** a plan, (2) **devise** a literary plot

They had to **devise** a system that did not depend on fossil fuels.

confer

v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

synonym : consult, meet, discuss

(1) **confer** degree, (2) **confer** honor

The leaders of the two countries met to **confer** on the issue.

filthy

adj. dirty or unclean, often to an extreme or offensive degree; morally offensive or obscene

synonym : dirty, grimy, soiled

(1) **filthy** streets, (2) **filthy** language

The hotel room was **filthy** with dirty sheets and stained carpets.

squeak

v. to make a high-pitched, short, sharp noise; to speak or say something in a high-pitched, weak, or timid voice

synonym : squeal, whine, creak

(1) **squeak** out a few words, (2) mice **squeak**

The door **squeaked** when I opened it.

pristine

adj. new and completely free from dirt or contamination

synonym : chaste, pure, immaculate

(1) **pristine** beach, (2) maintain the **pristine** condition

It is terrific to camp in **pristine** nature.

mold

n. a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long

synonym : cavity, cast, mildew

(1) a casting **mold**, (2) **mold** allergy
Mushrooms and **mold** are fungi.

denticle

n. a small tooth-like structure, especially one on the skin of cartilaginous fish such as sharks or rays

synonym: toothlet, small tooth, tooth point

(1) tooth-like **denticles**, (2) fish **denticle**

Sharks have small **denticles** on their skin that help reduce drag as they swim.

microbiology

n. the study of microorganisms, including bacteria, viruses, fungi, and algae, and their role in various fields such as medicine, agriculture, and the environment

(1) a specialist in **microbiology**, (2) **microbiology** laboratory

The field of **microbiology** includes the study of bacteria, fungi, viruses, and other microorganisms.

latch

n. a device for holding a door or gate closed, typically a sliding bar or bolt

synonym: lock, catch, bolt

(1) set the **latch**, (2) **latch** mechanism

The **latch** on the gate was broken, so the cows got loose.

stern

adj. serious, unyielding, or strict in manner or attitude

synonym: severe, harsh, strict

(1) **stern** warning, (2) a **stern** look

The students' antics did not amuse the **stern** teacher.

antimicrobial

adj. having the ability to prevent or combat the growth of microorganisms, particularly bacteria and fungi

synonym: antibacterial, germicidal, disinfectant

(1) **antimicrobial** properties, (2) **antimicrobial** treatment

The medical team used an **antimicrobial** solution to clean the surgical instruments.

industrious

adj. hardworking, diligent, and persistent in effort

synonym : diligent, hardworking, assiduous

(1) **industrious** worker, (2) **industrious** student

He was known to be very **industrious** and would often work late into the night.

outpace

v. to move or proceed at a faster rate than someone or something else; to surpass or exceed someone's or something's performance or ability

synonym : outdistance, outstrip, overtake

(1) **outpace** market share, (2) **outpace** economic growth

Her running speed allowed her to **outpace** her competitors and win the race.

germ

n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

synonym : bacterium, microbe, pathogen

(1) antibiotic-resistant **germ**, (2) a **germ-free** environment

The **germ** of his idea came from watching birds flying in flocks.

innovate

v. to introduce new methods, ideas, or products

synonym : bring in, introduce, found

(1) **innovate** a new method, (2) **innovate** the quality of his life

Companies developing self-driving cars consistently **innovate** the emerging technologies.

mimic

v. to imitate someone's speech, movement, or behavior, especially to make others laugh

synonym : mirror, imitate, ape

(1) **mimic** a human voice, (2) **mimic** numerous instruments

He is very popular at school because he can **mimic** all the teachers' accents.

complication

n. something that makes a situation or condition that is complex or confused

synonym: confusion, complexity, difficulty

(1) **complication** of structure, (2) resolve without

complication

He also continued to struggle with serious long-term

complications.

urology

n. the branch of medicine that deals with the study and treatment of disorders of the urinary tract and male reproductive system

synonym: urinary science, renal medicine

(1) **urology** clinic, (2) pediatric **urology**

The patient was referred to the **urology** department for further examination.

catheter

n. a thin, flexible tube that is inserted into a body cavity, duct, or vessel to drain fluid, inject medication, or perform a medical procedure

synonym: tube, drainage tube, pipe

(1) insert **catheter**, (2) urinary **catheter**

After the surgery, the patient was required to wear a **catheter** for several days.

inhospitable

adj. harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you

synonym: sterile, unfriendly, unwelcoming

(1) **inhospitable** environment, (2) in an **inhospitable** manner

He trekked across some of the most **inhospitable** mountains in the world.

pacemaker

n. a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others

synonym: heartbeat regulator, pacer, pacesetter

(1) implanted **pacemaker**, (2) **pacemaker** battery

Some people with **pacemakers** may need to avoid certain activities or sources of electromagnetic interference.

clog

v. to obstruct or block up (a passage, pipe, or system) with an accumulation of thick or sticky matter; to impede or hinder the progress or movement of something

synonym: block, jam, obstruct

(1) **clog** a filter, (2) **clog** artery

The drain was **clogged** with hair and needed to be cleaned out.

clot

n. a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force

synonym: clump, coagulation, thrombus

(1) blood **clot**, (2) **clot** prevention

The **clot** in the blood vessel required immediate medical attention.

lifesaving

n. the act or process of rescuing someone else's life, especially from drowning

(1) **lifesaving** efforts, (2) **lifesaving** device

The patient needs a **lifesaving** transplant operation.

Session 2: Spelling

1. mi__c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
2. ba____le growth *n.* a type of crustacean that attaches itself to hard surfaces underwater, such as rocks, ships, or docks; a metaphorical term used to describe a person or object that is difficult to remove or separate from another person or object
3. co____r honor *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
4. sq____k out a few words *v.* to make a high-pitched, short, sharp noise; to speak or say something in a high-pitched, weak, or timid voice
5. ant_____ial treatment *adj.* having the ability to prevent or combat the growth of microorganisms, particularly bacteria and fungi
6. fish de____le *n.* a small tooth-like structure, especially one on the skin of cartilaginous fish such as sharks or rays
7. la__h mechanism *n.* a device for holding a door or gate closed, typically a sliding bar or bolt
8. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
9. blue al__e *n.* A simple plant that grows in or near water and lacks typical leaves and roots

ANSWERS: 1. mimic, 2. barnacle, 3. confer, 4. squeak, 5. antimicrobial, 6. denticle, 7. latch, 8. industrious, 9. algae

10. tooth-like de_____les *n.* a small tooth-like structure, especially one on the skin of cartilaginous fish such as sharks or rays
11. urinary ca_____er *n.* a thin, flexible tube that is inserted into a body cavity, duct, or vessel to drain fluid, inject medication, or perform a medical procedure
12. qualified se_____er *n.* a person who works at sea, especially on a merchant ship or a navy vessel; a person who is experienced in sailing or navigating on the sea
13. fellow se_____er *n.* a person who works at sea, especially on a merchant ship or a navy vessel; a person who is experienced in sailing or navigating on the sea
14. com_____ion of structure *n.* something that makes a situation or condition that is complex or confused
15. de___e a plan *v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination
16. c__g a filter *v.* to obstruct or block up (a passage, pipe, or system) with an accumulation of thick or sticky matter; to impede or hinder the progress or movement of something
17. pr_____ne beach *adj.* new and completely free from dirt or contamination
18. resolve without com_____ion *n.* something that makes a situation or condition that is complex or confused
19. ind_____us student *adj.* hardworking, diligent, and persistent in effort

ANSWERS: 10. denticle, 11. catheter, 12. seafarer, 13. seafarer, 14. complication, 15. devise, 16. clog, 17. pristine, 18. complication, 19. industrious

20. ba____le removal *n.* a type of crustacean that attaches itself to hard surfaces underwater, such as rocks, ships, or docks; a metaphorical term used to describe a person or object that is difficult to remove or separate from another person or object
21. mice sq____k *v.* to make a high-pitched, short, sharp noise; to speak or say something in a high-pitched, weak, or timid voice
22. in____te a new method *v.* to introduce new methods, ideas, or products
23. set the la__h *n.* a device for holding a door or gate closed, typically a sliding bar or bolt
24. m__d allergy *n.* a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long
25. blood c__t *n.* a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
26. de____e a literary plot *v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination
27. a st__n look *adj.* serious, unyielding, or strict in manner or attitude

ANSWERS: 20. barnacle, 21. squeak, 22. innovate, 23. latch, 24. mold, 25. clot, 26. devise, 27. stern

28. fi___y language *adj.* dirty or unclean, often to an extreme or offensive degree; morally offensive or obscene
29. st__n warning *adj.* serious, unyielding, or strict in manner or attitude
30. c__g artery *v.* to obstruct or block up (a passage, pipe, or system) with an accumulation of thick or sticky matter; to impede or hinder the progress or movement of something
31. lif_____ng efforts *n.* the act or process of rescuing someone else's life, especially from drowning
32. pa_____er battery *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
33. mi__c a human voice *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
34. fi___y streets *adj.* dirty or unclean, often to an extreme or offensive degree; morally offensive or obscene
35. ur_____y clinic *n.* the branch of medicine that deals with the study and treatment of disorders of the urinary tract and male reproductive system
36. insert ca_____er *n.* a thin, flexible tube that is inserted into a body cavity, duct, or vessel to drain fluid, inject medication, or perform a medical procedure

ANSWERS: 28. filthy, 29. stern, 30. clog, 31. lifesaving, 32. pacemaker, 33. mimic, 34. filthy, 35. urology, 36. catheter

37. a casting m__d *n.* a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long
38. mic_____ogy laboratory *n.* the study of microorganisms, including bacteria, viruses, fungi, and algae, and their role in various fields such as medicine, agriculture, and the environment
39. al__e biofuel *n.* A simple plant that grows in or near water and lacks typical leaves and roots
40. inh_____ble environment *adj.* harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you
41. c__t prevention *n.* a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
42. ou_____e market share *v.* to move or proceed at a faster rate than someone or something else; to surpass or exceed someone's or something's performance or ability
43. ant_____ial properties *adj.* having the ability to prevent or combat the growth of microorganisms, particularly bacteria and fungi
44. maintain the pr_____ne condition *adj.* new and completely free from dirt or contamination

ANSWERS: 37. mold, 38. microbiology, 39. algae, 40. inhospitable, 41. clot, 42. outpace, 43. antimicrobial, 44. pristine

45. implanted pa_____er *n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
46. antibiotic-resistant g__m *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
47. co___r degree *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
48. a specialist in mic_____ogy *n.* the study of microorganisms, including bacteria, viruses, fungi, and algae, and their role in various fields such as medicine, agriculture, and the environment
49. in an inh_____ble manner *adj.* harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you
50. ou_____e economic growth *v.* to move or proceed at a faster rate than someone or something else; to surpass or exceed someone's or something's performance or ability
51. in_____te the quality of his life *v.* to introduce new methods, ideas, or products
52. a g__m-free environment *n.* a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one

ANSWERS: 45. pacemaker, 46. germ, 47. confer, 48. microbiology, 49. inhospitable, 50. outpace, 51. innovate, 52. germ

53. lif_____ng device

n. the act or process of rescuing someone else's life, especially from drowning

54. pediatric ur_____y

n. the branch of medicine that deals with the study and treatment of disorders of the urinary tract and male reproductive system

ANSWERS: 53. lifesaving, 54. urology

Session 3: Fill in the Blanks

1. He was known to be very _____ and would often work late into the night.
adj. hardworking, diligent, and persistent in effort
2. He trekked across some of the most _____ mountains in the world.
adj. harsh and difficult to stay in or grow; unfriendly and unwelcoming towards people who visit you
3. The hotel room was _____ with dirty sheets and stained carpets.
adj. dirty or unclean, often to an extreme or offensive degree; morally offensive or obscene
4. Her running speed allowed her to _____ her competitors and win the race.
v. to move or proceed at a faster rate than someone or something else; to surpass or exceed someone's or something's performance or ability
5. Companies developing self-driving cars consistently _____ the emerging technologies.
v. to introduce new methods, ideas, or products
6. The medical team used an _____ solution to clean the surgical instruments.
adj. having the ability to prevent or combat the growth of microorganisms, particularly bacteria and fungi
7. Sharks have small _____ on their skin that help reduce drag as they swim.
n. a small tooth-like structure, especially one on the skin of cartilaginous fish such as sharks or rays

ANSWERS: 1. industrious, 2. inhospitable, 3. filthy, 4. outpace, 5. innovate, 6. antimicrobial, 7. denticles

8. He is very popular at school because he can _____ all the teachers' accents.
v. to imitate someone's speech, movement, or behavior, especially to make others laugh
9. The patient needs a _____ transplant operation.
n. the act or process of rescuing someone else's life, especially from drowning
10. The students' antics did not amuse the _____ teacher.
adj. serious, unyielding, or strict in manner or attitude
11. Mushrooms and _____ are fungi.
n. a hollow container used to give shape to liquid or soft substance, which then becomes solid in the same shape as the container; a soft, green, or gray growth that forms on stale food or objects exposed to warm, moist air for too long
12. The leaders of the two countries met to _____ on the issue.
v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
13. The experienced _____ told stories of his adventures on the high seas.
n. a person who works at sea, especially on a merchant ship or a navy vessel; a person who is experienced in sailing or navigating on the sea
14. The _____ of his idea came from watching birds flying in flocks.
n. a very tiny living that causes the disease; a piece of something such as an organism, concept, etc., capable of growing into a new one or part of one
15. The bottom of the boat was covered in _____ slowing its speed in the water.
n. a type of crustacean that attaches itself to hard surfaces underwater, such as rocks, ships, or docks; a metaphorical term used to describe a person or object that is difficult to remove or separate from another person or object

ANSWERS: 8. mimic, 9. lifesaving, 10. stern, 11. mold, 12. confer, 13. seafarer, 14. germ, 15. barnacles,

16. The _____ in the blood vessel required immediate medical attention.
- n.* a thick mass or lump of coagulated liquid, especially blood; a group of people or things that form an obstructive, unsympathetic, or resistant force
17. It is terrific to camp in _____ nature.
- adj.* new and completely free from dirt or contamination
18. The field of _____ includes the study of bacteria, fungi, viruses, and other microorganisms.
- n.* the study of microorganisms, including bacteria, viruses, fungi, and algae, and their role in various fields such as medicine, agriculture, and the environment
19. He also continued to struggle with serious long-term _____.
- n.* something that makes a situation or condition that is complex or confused
20. They had to _____ a system that did not depend on fossil fuels.
- v.* to come up with an idea, plan, theory, etc., using your intelligence or imagination
21. The drain was _____ with hair and needed to be cleaned out.
- v.* to obstruct or block up (a passage, pipe, or system) with an accumulation of thick or sticky matter; to impede or hinder the progress or movement of something
22. The _____ on the gate was broken, so the cows got loose.
- n.* a device for holding a door or gate closed, typically a sliding bar or bolt
23. The patient was referred to the _____ department for further examination.
- n.* the branch of medicine that deals with the study and treatment of disorders of the urinary tract and male reproductive system

ANSWERS: 16. clot, 17. pristine, 18. microbiology, 19. complications, 20. devise, 21. clogged, 22. latch, 23. urology

24. _____ has jammed the inlet to the water turbine.
- n.* A simple plant that grows in or near water and lacks typical leaves and roots
25. The door _____ when I opened it.
- v.* to make a high-pitched, short, sharp noise; to speak or say something in a high-pitched, weak, or timid voice
26. Some people with _____ may need to avoid certain activities or sources of electromagnetic interference.
- n.* a small electronic device that is implanted in the chest to regulate the heartbeat of people with certain heart conditions; a person or thing that sets the pace or rhythm for others
27. After the surgery, the patient was required to wear a _____ for several days.
- n.* a thin, flexible tube that is inserted into a body cavity, duct, or vessel to drain fluid, inject medication, or perform a medical procedure

ANSWERS: 24. Algae, 25. squeaked, 26. pacemakers, 27. catheter