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TED-Ed: Could one vaccine protect against everything? | TED Talk

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

Advanced Words Only

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Session 1: Word List

monumental

adj. great in importance or influence, size, extent, or solidity; massive

synonym: massive, awesome, enormous

(1) **monumental** task, (2) **monumental** sculpture

Everyone, even non-scholars, knows Einstein's **monumental** contributions to physics.

hemagglutinin

n. a substance, such as a viral protein, which causes agglutination (= the coalescing of small particles) of red blood cells

(1) **hemagglutinin** gene, (2) cold **hemagglutinin** disease

The virus produces proteins, including **hemagglutinin** protein.

attache

n. a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase

synonym: diplomat, envoy, briefcase

(1) a commercial **attache**, (2) black **attache** case

A prime minister talked with a military **attache** of the country's embassy.

fuse

n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

synonym : (verb) melt, (verb) blend

(1) **fuse** blows, (2) **fuse** with one another

He has a short **fuse**.

emperor

n. the male ruler of an empire

synonym : ruler, king, dictator

(1) **emperor** of Rome, (2) former **emperor**

The **Emperor** once lived in the vast palace.

plaster

n. a substance made of lime that becomes hard as it dries and is used for the protective or decorative coating of walls and ceilings and for molding and casting decorative elements

synonym : cement, adhesive, mortar

(1) daub the ceiling with **plaster**, (2) cracks in the **plaster**

Patience is the **plaster** of all sores.

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.

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**.

diminish

v. to reduce or be reduced in size, extent, or importance; to make something smaller, weaker, etc.

synonym :

decline, dwindle, lessen

(1) **diminish** a reputation, (2) **diminish** swelling

As people get old, their energies may **diminish**.

blueprint

n. a photographic print of an early plan for a building or machine

synonym : draft, prototype, sketch

(1) **blueprint** for economic reform, (2) architect's **blueprint**

A business plan is a **blueprint** for your success.

invade

v. to enter aggressively into another's territory by military force for conquest and occupation

synonym : intrude, raid, overrun

(1) **invade** other tissues, (2) **invade** his privacy

I have no intention to **invade** your privacy.

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.

recombine

v. to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)

(1) **recombine** at the surface, (2) ability to **recombine**

Some scientists argue that the genes in food should not be artificially **recombined**.

pandemic

n. an outbreak of a disease that affects many people over a very wide area

synonym : outbreak

(1) flu **pandemic**, (2) global **pandemic**

They fear a **pandemic** of a new type of virus.

conserve

v. to protect something, especially the natural environment or culture, from change, damage, or destruction

synonym : preserve, save, maintain

(1) means to **conserve** energy, (2) **conserve** coal resources

Children must be taught to **conserve** our natural environment.

hinder

v. to make it difficult for someone to do something; to limit the development of something

synonym : frustrate, hamper, interfere

(1) **hinder** athletic performance, (2) **hinder** international exchanges

The pandemic **hindered** the growth of the airline industry.

subtype

n. a type that is a subdivision of a more general type; a subdivision of a type of microorganism

synonym : subdivision

(1) tumor **subtype**, (2) avian influenza **subtype**

Scientists have classified the currently prevalent viruses into **subtypes** to develop a highly effective vaccine.

ferritin

n. a protein produced in mammalian metabolism that stores iron and releases it in a controlled fashion

(1) **ferritin** antibody, (2) serum **ferritin**

The higher the **ferritin** level, the greater the potential for severe organ damage.

nanoparticle

n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter

(1) aluminum **nanoparticle**, (2) atmospheric **nanoparticle**

For some creatures, carbon **nanoparticles** are deadly.

vaccinate

v. to treat with a vaccine, usually by injection, to produce immunity against a disease

synonym : immunize, inject, inoculate

(1) **vaccinate** against scarlet fever, (2) **vaccinate** every year

The nurse **vaccinated** the children in the school.

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym: shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

coronavirus

n. a group of viruses that cause respiratory, gastrointestinal, and neurological diseases in humans and other animals

(1) **coronavirus** antibody test kit, (2) **coronavirus** bankruptcy

Considering the situation of **coronavirus**, organized stopped this year's beer festival.

squarely

adv. directly and firmly; in a square shape

synonym: honestly, justly, straightforwardly

(1) look **squarely** at reality, (2) a **squarely** cut piece of paper

We must **squarely** address the problem.

groundbreaking

adj. producing fresh findings; using novel techniques

synonym: innovative, revolutionary

(1) **groundbreaking** concept, (2) **groundbreaking** settlement

He has produced **groundbreaking** research on the subject.

Session 2: Spelling

- | | |
|------------------------------------|---|
| 1. cracks in the pl_____r | <i>n.</i> a substance made of lime that becomes hard as it dries and is used for the protective or decorative coating of walls and ceilings and for molding and casting decorative elements |
| 2. blo_____am to the brain | <i>n.</i> the blood flowing through the body |
| 3. avian influenza su_____e | <i>n.</i> a type that is a subdivision of a more general type; a subdivision of a type of microorganism |
| 4. hi____r athletic performance | <i>v.</i> to make it difficult for someone to do something; to limit the development of something |
| 5. va_____te against scarlet fever | <i>v.</i> to treat with a vaccine, usually by injection, to produce immunity against a disease |
| 6. gro_____ing concept | <i>adj.</i> producing fresh findings; using novel techniques |
| 7. a casting m__d | <i>n.</i> 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 |
| 8. architect's bl_____nt | <i>n.</i> a photographic print of an early plan for a building or machine |

ANSWERS: 1. plaster, 2. bloodstream, 3. subtype, 4. hinder, 5. vaccinate, 6. groundbreaking, 7. mold, 8. blueprint

9. a sq____ly cut piece of paper *adv.* directly and firmly; in a square shape
10. in____e other tissues *v.* to enter aggressively into another's territory by military force for conquest and occupation
11. tumor su____e *n.* a type that is a subdivision of a more general type; a subdivision of a type of microorganism
12. ability to re____ne *v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
13. 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
14. flu pa____ic *n.* an outbreak of a disease that affects many people over a very wide area
15. global pa____ic *n.* an outbreak of a disease that affects many people over a very wide area
16. fe____in antibody *n.* a protein produced in mammalian metabolism that stores iron and releases it in a controlled fashion
17. mon____al sculpture *adj.* great in importance or influence, size, extent, or solidity; massive
18. f__e with one another *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

ANSWERS: 9. squarely, 10. invade, 11. subtype, 12. recombine, 13. mold, 14. pandemic, 15. pandemic, 16. ferritin, 17. monumental, 18. fuse

19. means to co_____ve energy *v.* to protect something, especially the natural environment or culture, from change, damage, or destruction
20. di_____sh a reputation *v.* to reduce or be reduced in size, extent, or importance; to make something smaller, weaker, etc.
21. gro_____ing settlement *adj.* producing fresh findings; using novel techniques
22. in____t under the skin *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
23. re_____ne at the surface *v.* to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)
24. a commercial at_____e *n.* a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
25. f__e blows *n.* a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat
26. mon_____al task *adj.* great in importance or influence, size, extent, or solidity; massive
27. di_____sh swelling *v.* to reduce or be reduced in size, extent, or importance; to make something smaller, weaker, etc.

ANSWERS: 19. conserve, 20. diminish, 21. groundbreaking, 22. inject, 23. recombine, 24. attache, 25. fuse, 26. monumental, 27. diminish

28. cold hem_____nin disease *n.* a substance, such as a viral protein, which causes agglutination (= the coalescing of small particles) of red blood cells
29. in____t other animal species *v.* to affect a person, an animal, or a plant with a disease-causing organism
30. em_____r of Rome *n.* the male ruler of an empire
31. cor_____us bankruptcy *n.* a group of viruses that cause respiratory, gastrointestinal, and neurological diseases in humans and other animals
32. co_____ve coal resources *v.* to protect something, especially the natural environment or culture, from change, damage, or destruction
33. cor_____us antibody test kit *n.* a group of viruses that cause respiratory, gastrointestinal, and neurological diseases in humans and other animals
34. black at_____e case *n.* a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
35. va_____te every year *v.* to treat with a vaccine, usually by injection, to produce immunity against a disease
36. blo_____am in an artery *n.* the blood flowing through the body
37. bl_____nt for economic reform *n.* a photographic print of an early plan for a building or machine

ANSWERS: 28. hemagglutinin, 29. infect, 30. emperor, 31. coronavirus, 32. conserve, 33. coronavirus, 34. attache, 35. vaccinate, 36. bloodstream, 37. blueprint

38. hi___r international exchanges *v.* to make it difficult for someone to do something; to limit the development of something
39. daub the ceiling with pl_____r *n.* a substance made of lime that becomes hard as it dries and is used for the protective or decorative coating of walls and ceilings and for molding and casting decorative elements
40. former em_____r *n.* the male ruler of an empire
41. in___t a personal opinion into a debate *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
42. hem_____nin gene *n.* a substance, such as a viral protein, which causes agglutination (= the coalescing of small particles) of red blood cells
43. serum fe_____in *n.* a protein produced in mammalian metabolism that stores iron and releases it in a controlled fashion
44. look sq_____ly at reality *adv.* directly and firmly; in a square shape
45. atmospheric nan_____cle *n.* a particle of matter that is between 1 and 100 nanometres (nm) in diameter
46. in___t a computer with a virus *v.* to affect a person, an animal, or a plant with a disease-causing organism
47. in___e his privacy *v.* to enter aggressively into another's territory by military force for conquest and occupation

ANSWERS: 38. hinder, 39. plaster, 40. emperor, 41. inject, 42. hemagglutinin, 43. ferritin, 44. squarely, 45. nanoparticle, 46. infect, 47. invade

48. aluminum nan_____cle

n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter

ANSWERS: 48. nanoparticle

Session 3: Fill in the Blanks

1. Some scientists argue that the genes in food should not be artificially _____.
 - v. to combine or put together again or differently; to cause genetic recombination (= the process by which genetic material is broken and joined to other genetic material)

2. Considering the situation of _____ organized stopped this year's beer festival.
 - n. a group of viruses that cause respiratory, gastrointestinal, and neurological diseases in humans and other animals

3. As people get old, their energies may _____.
 - v. to reduce or be reduced in size, extent, or importance; to make something smaller, weaker, etc.

4. I have no intention to _____ your privacy.
 - v. to enter aggressively into another's territory by military force for conquest and occupation

5. He has a short _____.
 - n. a small part in an electrical device or machinery that can interrupt the flow of electrical current when it is overloaded; (verb) to become plastic or fluid or liquefied from heat

6. Cancer cells are often carried throughout the body by the _____.
 - n. the blood flowing through the body

7. They fear a _____ of a new type of virus.
 - n. an outbreak of a disease that affects many people over a very wide area

ANSWERS: 1. recombined, 2. coronavirus, 3. diminish, 4. invade, 5. fuse, 6. bloodstream, 7. pandemic

8. The higher the _____ level, the greater the potential for severe organ damage.
- n.* a protein produced in mammalian metabolism that stores iron and releases it in a controlled fashion
9. Scientists have classified the currently prevalent viruses into _____ to develop a highly effective vaccine.
- n.* a type that is a subdivision of a more general type; a subdivision of a type of microorganism
10. We must _____ address the problem.
- adv.* directly and firmly; in a square shape
11. Patience is the _____ of all sores.
- n.* a substance made of lime that becomes hard as it dries and is used for the protective or decorative coating of walls and ceilings and for molding and casting decorative elements
12. A business plan is a _____ for your success.
- n.* a photographic print of an early plan for a building or machine
13. Children often _____ parents with this head cold.
- v.* to affect a person, an animal, or a plant with a disease-causing organism
14. He has produced _____ research on the subject.
- adj.* producing fresh findings; using novel techniques
15. Let's try to _____ a bit of enthusiasm into your performance.
- v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

ANSWERS: 8. ferritin, 9. subtypes, 10. squarely, 11. plaster, 12. blueprint, 13. infect, 14. groundbreaking, 15. inject

16. For some creatures, carbon _____ are deadly.
n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter
17. The _____ once lived in the vast palace.
n. the male ruler of an empire
18. The nurse _____ the children in the school.
v. to treat with a vaccine, usually by injection, to produce immunity against a disease
19. 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
20. A prime minister talked with a military _____ of the country's embassy.
n. a person who works at an embassy, usually having a specialized area of responsibility; a shallow and rectangular briefcase
21. The virus produces proteins, including _____ protein.
n. a substance, such as a viral protein, which causes agglutination (= the coalescing of small particles) of red blood cells
22. Children must be taught to _____ our natural environment.
v. to protect something, especially the natural environment or culture, from change, damage, or destruction
23. The pandemic _____ the growth of the airline industry.
v. to make it difficult for someone to do something; to limit the development of something

ANSWERS: 16. nanoparticles, 17. Emperor, 18. vaccinated, 19. mold, 20. attache, 21. hemagglutinin, 22. conserve, 23. hindered

24. Everyone, even non-scholars, knows Einstein's _____ contributions to physics.

adj. great in importance or influence, size, extent, or solidity; massive

ANSWERS: 24. monumental