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David Andrew Quist: Could fungi actually be the key to humanity's survival? | TED Talk

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

Advanced Words Only

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Session 1: Word List

fungus

- n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive

synonym: mold, mildew, yeast

- (1) **fungus** infection, (2) symbiotic **fungus**

Certain types of **fungus** can be toxic to humans, causing severe illness if ingested.

embarrass

- v.* to cause someone to feel awkward, worried, or ashamed

synonym: disconcert, unsettle, agitate

- (1) **embarrass** political enemy, (2) **embarrass** my project

He looked for an opportunity to **embarrass** that actor in public.

itch

- v.* to have an uncomfortable feeling on the skin that makes you want to scratch it

synonym: scratch, tingle, irritate

- (1) **itch** constantly, (2) **itch** to speak

I can't stop **itching** my arm because of the mosquito bite.

misunderstand

- v.* to interpret or understand something in the wrong way

synonym: misinterpret, misperceive, misapprehend

(1) **misunderstand** each other, (2) **misunderstand** entirely about her

You should not **misunderstand** the meaning of freedom.

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.

rot

v. to decay, or cause something to decay, naturally and gradually

synonym: perish, decay, corrode

(1) begin to **rot**, (2) **rot** with age

Please refrigerate the meat, or it will **rot**.

spoil

v. to ruin the taste, appearance, or quality of something; to become or cause something to become rotten or bad

synonym: rot, decay, deteriorate

(1) **spoil** a person's sport, (2) **spoil** the surprise

If you leave the milk out of the refrigerator for too long, it will **spoil**.

mushroom

n. a type of fungus that grows on dead or decaying organic matter and typically has a stalk and an umbrella-shaped cap

synonym: fungus, toadstool

(1) **mushroom** spores, (2) **mushroom** cultivation

The **mushroom** risotto was delicious, but I couldn't identify all the mushrooms in it.

backstory

n. the history and events that occur before the main events of a story or the history and details of a person or thing that are not widely known

synonym: history, background, prehistory

(1) the **backstory** about this sweet moment, (2) **backstory** plot

The **backstory** of the main character added depth to the story.

desolate

adj. deserted, barren, or lonely; causing a feeling of sadness or hopelessness

synonym: barren, stark, uninhabited

(1) a **desolate** scene, (2) **desolate** moon

The deserted island was **desolate** and uninhabited.

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.

opportune

adj. suitable or happening at a time that is suitable or convenient for a particular purpose

synonym: suitable, timely, practical

(1) **opportune** occasion, (2) an **opportune** remark

The phone rang at the most **opportune** time.

explode

v. to burst or break open violently and noisily; to cause something to burst or break open

synonym: detonate, blast, rupture

(1) **explode** in anger, (2) **explode** in popularity

The old building **exploded** in a fiery inferno.

resilient

adj. able to withstand or recover quickly from difficult conditions

synonym: robust, sturdy, tough

(1) a hard and **resilient** steel, (2) **resilient** population

She is a **resilient** person and has always bounced back from setbacks.

dinosaur

n. a large extinct reptile, often with an armored back, long neck, tail, and bony plates on the skin

synonym: reptile, beast, monster

(1) hulking **dinosaur**, (2) **dinosaur** fossil

The discovery of a new **dinosaur** species made headlines in the scientific community.

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.

trilobite

n. a type of extinct arthropod that lived in the oceans of the Paleozoic Era, characterized by a three-lobed body shape and a hard exoskeleton

synonym: fossil, arthropod, ancient creature

(1) an intact **trilobite**, (2) **trilobite** specimen

The fossilized **trilobite** was over 500 million years old.

endear

v. to make someone loved or appreciated or to cause someone to feel fondness or affection for someone or something

synonym: fondle, cherish, love

(1) **endear** a character to young readers, (2) **endear** to everyone

The baby's smile **endeared** her to everyone who saw her.

grunge

n. the state of being covered with dirty things; a type of rock music characterized by heavy use of electric guitar, bass, and drums, and often a bleak or rebellious attitude

synonym: dirt, grime, filth

(1) **grunge** wardrobe, (2) **grunge** music

The **grunge** fashion style became popular in the early 1990s.

anyhow

adv. anyway; regardless of what has happened or been said

synonym: anyway, nonetheless

(1) **anyhow** possible, (2) **anyhow** it turns out
Anyhow, let's change the subject because I don't want to talk about this anymore.

mecca

n. a city and administrative center of the Mecca Province of Saudi Arabia and the holiest city in Islam

synonym: cynosure, center

(1) tourist **mecca**, (2) **mecca** for surfers

The building has become a **mecca** for fans of the movie.

splendor

n. great brightness; brilliant or stunning appearance; magnificence

synonym: brightness, magnificence, grandeur

(1) **splendor** of nature, (2) **splendor** of art

The **splendor** of the palace was breathtaking.

microbe

n. a tiny living thing that can only be seen with a microscope and that may cause disease

synonym: germ, microorganism, bacterium

(1) pathogenic **microbe**, (2) **microbes** sterilizer

Microbes thrive on the surface of the human skin.

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.

spore

n. a reproductive cell that is capable of developing into a new individual without fertilization, especially one produced by certain bacteria, fungi, and algae

synonym: seed, reproductive cell, particle

(1) anthrax **spore**, (2) **spore** reproduction

Bacteria and some algae also produce **spores** as a means of survival and dispersal, and they are often found in soil, water, and other environments.

trample

v. to step heavily on something or someone, causing damage or injury

synonym: tread, stomp, crush

(1) **trample** down his feelings, (2) **trample** on the rights

The plants in this garden are precious, so you must not **trample** them.

ubiquitous

adj. being or existing everywhere at once

synonym: universal, omnipresent, everywhere

(1) **ubiquitous** computing, (2) **ubiquitous** across ecosystems

Sugar is **ubiquitous** in food.

oatmeal

n. a type of cereal made from oats that have been ground or steel-cut

synonym: porridge, grits, meal

(1) **oatmeal** cookies, (2) **oatmeal** breakfast

I love starting my day with a bowl of warm **oatmeal** and fresh fruit.

petri

n. (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria

(1) **petri** dish test, (2) bacteria on **petri** dishes

Glass **petri** dishes are used to culture microorganisms.

slime

n. a thick, slippery substance that is usually soft and wet

synonym: muck, ooze, gunk

(1) **slime** bacteria, (2) **slime** mold

The kids loved playing with the green **slime**, but it was a nightmare to clean up.

recreate

v. to make something that existed previously happen or appear to exist again

synonym: renovate, vivify, revive

(1) **recreate** a single country, (2) **recreate** the feeling of the 1920s

She **recreated** the atmosphere of the pre-war age with her stage setting.

imaginative

adj. having or showing new and creative ideas

synonym: creative, innovative, inventive

(1) capable of **imaginative** creation, (2) **imaginative** as a child

She is a hard worker but not very **imaginative**.

mycorrhiza

n. a mutually beneficial association between a fungus and the roots of a plant, in which the fungus helps the plant absorb water and nutrients, and the plant provides the fungus with sugars produced through photosynthesis

synonym: fungus, root, relationship

(1) **mycorrhiza** fungi, (2) orchid **mycorrhiza**

Some studies have shown that plants grown in soil with a high population of **mycorrhizal** fungi are more resistant to drought and disease.

depict

v. to illustrate someone or something in a photograph

synonym: illustrate, describe, express

(1) **depict** a scene, (2) **depict** a feeling of isolation

His son had accurately **depicted** the bloom.

filament

n. a thin wire or thread, especially one used to produce light in an electric bulb

synonym: fiber, thread, filament

(1) **filament** lamp, (2) carbon **filament**

The **filament** in the light bulb burned out, and now it's not working.

mycelium

n. the vegetative part of a fungus, consisting of a mass of branching, thread-like hyphae

(1) **mycelium** growth, (2) aerial **mycelium**

The **mycelium** of the mushroom spread through the soil, absorbing nutrients.

symbiosis

n. a close, prolonged association between two or more different species of organisms, typically to the advantage of all

synonym: cooperation, interdependence, mutualism

(1) industrial **symbiosis**, (2) **symbiosis** establishment

The **symbiosis** between the coral and the algae is an important example of mutualism.

photosynthesis

n. the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

(1) oxygenic **photosynthesis**, (2) process of **photosynthesis**

In **photosynthesis**, plants use carbon dioxide to feed themselves.

mediate

v. to try to bring about an agreement or understanding between people who are in conflict

synonym: arbitrate, reconcile, intervene

(1) **mediate** allergic reaction, (2) **mediate** a negotiation

The teacher had to **mediate** a disagreement between two students over a stolen pencil.

regenerative

adj. tending to regrow or restore lost or injured tissue

synonym: rejuvenating, restorative, healing

(1) **regenerative** medicine, (2) **regenerative** therapy

The **regenerative** properties of stem cells make them a promising area of research.

decompose

v. to break down or cause to break down over time into simpler substances or elements

synonym: break down, rot, spoil

(1) **decompose** matter, (2) **decompose** into simpler molecules

After the earthquake, many of the buildings in the city were

left in ruins and began to **decompose**.

anew

adv. in a new or different way

synonym: again, once more, fresh

(1) arm **anew**, (2) review **anew**

He decided to start **anew** and leave his old life behind.

bury

v. to place a dead body in the ground, grave, or tomb

synonym: entomb, sink, forget

(1) **bury** in the earth, (2) **bury** emotion

There is plenty of space to **bury** everyone.

crappy

adj. of poor quality; not satisfactory

synonym: poor, unsatisfactory, inferior

(1) **crappy** service, (2) **crappy** Spanish

The food at the restaurant was **crappy** and overpriced.

fermentation

n. the chemical breakdown of a substance by bacteria, yeasts, or other microorganisms, typically involving effervescence and the giving off of the heat

synonym: brewing, culturing, pickling

(1) oxidative **fermentation**, (2) **fermentation** tank

The process of **fermentation** is used to make beer, wine, and many other products.

reimagine

v. to imagine or conceive of something in a new or different way

synonym: re-conceptualize, re-envision, re-create

(1) **reimagine** the future, (2) **reimagine** the possibilities

The company is trying to **reimagine** its business model to stay competitive.

biomaterial

n. a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues

(1) **biomaterial** development, (2) **biomaterials** industry

The new **biomaterials** used in implants are more durable and less likely to cause an immune response.

soundproof

- v. to make a room or other enclosed space impervious to sound by reducing the transmission of sound through its walls or floor and ceiling; (adjective, of a building) not allowing sound to pass through it

synonym: insulate, muffle, dampen

(1) **soundproof** room, (2) **soundproof** material

The walls of the recording studio were **soundproofed** to eliminate outside noise.

footprint

- n. a mark of a foot, shoe, or animal's foot left on a surface

synonym: footmark, imprint, impression

(1) **footprints** in the snow, (2) the **footprints** of an earlier civilization

We choose transportation that has a smaller carbon **footprint**.

replicate

- v. to make an exact copy of something; to repeat a process or experiment to confirm the results

synonym: duplicate, imitate, reproduce

(1) **replicate** the cell, (2) **replicate** data

The experiment was **replicated** several times to ensure accuracy.

overfishing

- n. the removal of too many fish from a body of water, causing a decline in population levels and harm to the ecosystem

synonym: overharvesting, over-exploitation, depletion

(1) **overfishing** crisis, (2) **overfishing** ban

The ocean's ecosystem is being threatened by **overfishing**, causing many species to become endangered.

degrade

- v. to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others

synonym: demean, disgrace, impair

(1) **degrade** his public image, (2) **degrade** environmental quality

You should not **degrade** yourself by allowing them to use you.

byproduct

n. a secondary or incidental product produced in the manufacture or synthesis of something else

synonym: side effect, spinoff, outgrowth

(1) toxic **byproducts**, (2) **byproduct** of technology

The **byproduct** of the energy production process is a large amount of carbon dioxide emissions.

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.

self-sufficient

adj. able to provide for one's own needs without assistance from others

synonym: independent, self-reliant, self-sustaining

(1) **self-sufficient** economy, (2) **self-sufficient** renewable energy

He was determined to become **self-sufficient** and not rely on anyone else.

uncover

v. to remove the cover from something; to discover something previously unseen or hidden

synonym: disclose, reveal, unveil

(1) **uncover** a potential problem, (2) **uncover** the truth

He continued his investigation and soon **uncovered** another crime.

mindset

n. the established set of attitudes or fixed ideas held by someone

synonym:

attitude, ethos, mentality

(1) flexible **mindset**, (2) the **mindset** in an education system

Countries whose goal is economic development often focus on fostering an entrepreneurial **mindset** in each individual.

Session 2: Spelling

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|------------------------------------|---|
| 1. fi____nt lamp | <i>n.</i> a thin wire or thread, especially one used to produce light in an electric bulb |
| 2. sl__e mold | <i>n.</i> a thick, slippery substance that is usually soft and wet |
| 3. di____ur fossil | <i>n.</i> a large extinct reptile, often with an armored back, long neck, tail, and bony plates on the skin |
| 4. de____e his public image | <i>v.</i> to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others |
| 5. begin to r_t | <i>v.</i> to decay, or cause something to decay, naturally and gradually |
| 6. de____se into simpler molecules | <i>v.</i> to break down or cause to break down over time into simpler substances or elements |
| 7. reg____ive medicine | <i>adj.</i> tending to regrow or restore lost or injured tissue |
| 8. mis____and entirely about her | <i>v.</i> to interpret or understand something in the wrong way |
| 9. in___e the aroma | <i>v.</i> to breathe in air or a different substance, such as smoke |
| 10. pe__i dish test | <i>n.</i> (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria |

ANSWERS: 1. filament, 2. slime, 3. dinosaur, 4. degrade, 5. rot, 6. decompose, 7. regenerative, 8. misunderstand, 9. inhale, 10. petri

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|------------------------------------|--|
| 11. oxidative fer_____ion | <i>n.</i> the chemical breakdown of a substance by bacteria, yeasts, or other microorganisms, typically involving effervescence and the giving off of the heat |
| 12. un_____r the truth | <i>v.</i> to remove the cover from something; to discover something previously unseen or hidden |
| 13. re_____nt population | <i>adj.</i> able to withstand or recover quickly from difficult conditions |
| 14. an____w possible | <i>adv.</i> anyway; regardless of what has happened or been said |
| 15. tourist me__a | <i>n.</i> a city and administrative center of the Mecca Province of Saudi Arabia and the holiest city in Islam |
| 16. fu____s infection | <i>n.</i> a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive |
| 17. a hard and re_____nt steel | <i>adj.</i> able to withstand or recover quickly from difficult conditions |
| 18. myc_____za fungi | <i>n.</i> a mutually beneficial association between a fungus and the roots of a plant, in which the fungus helps the plant absorb water and nutrients, and the plant provides the fungus with sugars produced through photosynthesis |
| 19. de_____e environmental quality | <i>v.</i> to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others |

ANSWERS: 11. fermentation, 12. uncover, 13. resilient, 14. anyhow, 15. mecca, 16. fungus, 17. resilient, 18. mycorrhiza, 19. degrade

20. an___w it turns out	<i>adv.</i> anyway; regardless of what has happened or been said
21. blue al___e	<i>n.</i> A simple plant that grows in or near water and lacks typical leaves and roots
22. de____te moon	<i>adj.</i> deserted, barren, or lonely; causing a feeling of sadness or hopelessness
23. ex____e in popularity	<i>v.</i> to burst or break open violently and noisily; to cause something to burst or break open
24. re____te a single country	<i>v.</i> to make something that existed previously happen or appear to exist again
25. an op_____ne remark	<i>adj.</i> suitable or happening at a time that is suitable or convenient for a particular purpose
26. the mi____t in an education system	<i>n.</i> the established set of attitudes or fixed ideas held by someone
27. gr___e wardrobe	<i>n.</i> the state of being covered with dirty things; a type of rock music characterized by heavy use of electric guitar, bass, and drums, and often a bleak or rebellious attitude
28. me__a for surfers	<i>n.</i> a city and administrative center of the Mecca Province of Saudi Arabia and the holiest city in Islam
29. sp__l a person's sport	<i>v.</i> to ruin the taste, appearance, or quality of something; to become or cause something to become rotten or bad
30. industrial sy____is	<i>n.</i> a close, prolonged association between two or more different species of organisms, typically to the advantage of all

ANSWERS: 20. anyhow, 21. algae, 22. desolate, 23. explode, 24. recreate, 25. opportune, 26. mindset, 27. grunge, 28. mecca, 29. spoil, 30. symbiosis

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|----------------------------------|---|
| 31. ubi_____us across ecosystems | <i>adj.</i> being or existing everywhere at once |
| 32. review a__w | <i>adv.</i> in a new or different way |
| 33. sel_____ent economy | <i>adj.</i> able to provide for one's own needs without assistance from others |
| 34. arm a__w | <i>adv.</i> in a new or different way |
| 35. m__d allergy | <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 |
| 36. ove_____ng crisis | <i>n.</i> the removal of too many fish from a body of water, causing a decline in population levels and harm to the ecosystem |
| 37. sou_____of material | <i>v.</i> to make a room or other enclosed space impervious to sound by reducing the transmission of sound through its walls or floor and ceiling; (adjective, of a building) not allowing sound to pass through it |
| 38. ex_____e in anger | <i>v.</i> to burst or break open violently and noisily; to cause something to burst or break open |
| 39. sel_____ent renewable energy | <i>adj.</i> able to provide for one's own needs without assistance from others |
| 40. sp__e reproduction | <i>n.</i> a reproductive cell that is capable of developing into a new individual without fertilization, especially one produced by certain bacteria, fungi, and algae |

ANSWERS: 31. ubiquitous, 32. anew, 33. self-sufficient, 34. anew, 35. mold, 36. overfishing, 37. soundproof, 38. explode, 39. self-sufficient, 40. spore

41. cr___y service	<i>adj.</i> of poor quality; not satisfactory
42. re_____te the feeling of the 1920s	<i>v.</i> to make something that existed previously happen or appear to exist again
43. me_____e allergic reaction	<i>v.</i> to try to bring about an agreement or understanding between people who are in conflict
44. mi_____es sterilizer	<i>n.</i> a tiny living thing that can only be seen with a microscope and that may cause disease
45. mu_____om cultivation	<i>n.</i> a type of fungus that grows on dead or decaying organic matter and typically has a stalk and an umbrella-shaped cap
46. ove_____ng ban	<i>n.</i> the removal of too many fish from a body of water, causing a decline in population levels and harm to the ecosystem
47. sou_____of room	<i>v.</i> to make a room or other enclosed space impervious to sound by reducing the transmission of sound through its walls or floor and ceiling; (adjective, of a building) not allowing sound to pass through it
48. aerial my_____um	<i>n.</i> the vegetative part of a fungus, consisting of a mass of branching, thread-like hyphae
49. re_____ne the future	<i>v.</i> to imagine or conceive of something in a new or different way
50. bio_____al development	<i>n.</i> a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues

ANSWERS: 41. crappy, 42. recreate, 43. mediate, 44. microbe, 45. mushroom, 46. overfishing, 47. soundproof, 48. mycelium, 49. reimagine, 50. biomaterial

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|-----------------------------------|--|
| 51. en___r to everyone | <i>v.</i> to make someone loved or appreciated or to cause someone to feel fondness or affection for someone or something |
| 52. anthrax sp___e | <i>n.</i> a reproductive cell that is capable of developing into a new individual without fertilization, especially one produced by certain bacteria, fungi, and algae |
| 53. em_____ss political enemy | <i>v.</i> to cause someone to feel awkward, worried, or ashamed |
| 54. cr___y Spanish | <i>adj.</i> of poor quality; not satisfactory |
| 55. bacteria on pe___i dishes | <i>n.</i> (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria |
| 56. op_____ne occasion | <i>adj.</i> suitable or happening at a time that is suitable or convenient for a particular purpose |
| 57. toxic by_____cts | <i>n.</i> a secondary or incidental product produced in the manufacture or synthesis of something else |
| 58. re_____te data | <i>v.</i> to make an exact copy of something; to repeat a process or experiment to confirm the results |
| 59. de___t a feeling of isolation | <i>v.</i> to illustrate someone or something in a photograph |
| 60. an intact tr_____te | <i>n.</i> a type of extinct arthropod that lived in the oceans of the Paleozoic Era, characterized by a three-lobed body shape and a hard exoskeleton |
| 61. sl___e bacteria | <i>n.</i> a thick, slippery substance that is usually soft and wet |

ANSWERS: 51. endear, 52. spore, 53. embarrass, 54. crappy, 55. petri, 56. opportune, 57. byproduct, 58. replicate, 59. depict, 60. trilobite, 61. slime

62. ex____t by human activity	<i>adj.</i> no longer in existence
63. i__h constantly	<i>v.</i> to have an uncomfortable feeling on the skin that makes you want to scratch it
64. de_____se matter	<i>v.</i> to break down or cause to break down over time into simpler substances or elements
65. tr_____e on the rights	<i>v.</i> to step heavily on something or someone, causing damage or injury
66. by_____ct of technology	<i>n.</i> a secondary or incidental product produced in the manufacture or synthesis of something else
67. b__y emotion	<i>v.</i> to place a dead body in the ground, grave, or tomb
68. hulking di_____ur	<i>n.</i> a large extinct reptile, often with an armored back, long neck, tail, and bony plates on the skin
69. r_t with age	<i>v.</i> to decay, or cause something to decay, naturally and gradually
70. en___r a character to young readers	<i>v.</i> to make someone loved or appreciated or to cause someone to feel fondness or affection for someone or something
71. pathogenic mi_____e	<i>n.</i> a tiny living thing that can only be seen with a microscope and that may cause disease
72. oxygenic pho_____sis	<i>n.</i> the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

ANSWERS: 62. extinct, 63. itch, 64. decompose, 65. trample, 66. byproduct, 67. bury, 68. dinosaur, 69. rot, 70. endear, 71. microbe, 72. photosynthesis

73. b__y in the earth	<i>v.</i> to place a dead body in the ground, grave, or tomb
74. reg_____ive therapy	<i>adj.</i> tending to regrow or restore lost or injured tissue
75. my_____um growth	<i>n.</i> the vegetative part of a fungus, consisting of a mass of branching, thread-like hyphae
76. re_____ne the possibilities	<i>v.</i> to imagine or conceive of something in a new or different way
77. carbon fi_____nt	<i>n.</i> a thin wire or thread, especially one used to produce light in an electric bulb
78. mu_____om spores	<i>n.</i> a type of fungus that grows on dead or decaying organic matter and typically has a stalk and an umbrella-shaped cap
79. de____t a scene	<i>v.</i> to illustrate someone or something in a photograph
80. tr_____te specimen	<i>n.</i> a type of extinct arthropod that lived in the oceans of the Paleozoic Era, characterized by a three-lobed body shape and a hard exoskeleton
81. sp_____or of nature	<i>n.</i> great brightness; brilliant or stunning appearance; magnificence
82. a de_____te scene	<i>adj.</i> deserted, barren, or lonely; causing a feeling of sadness or hopelessness
83. gr____e music	<i>n.</i> the state of being covered with dirty things; a type of rock music characterized by heavy use of electric guitar, bass, and drums, and often a bleak or rebellious attitude

ANSWERS: 73. bury, 74. regenerative, 75. mycelium, 76. reimagine, 77. filament, 78. mushroom, 79. depict, 80. trilobite, 81. splendor, 82. desolate, 83. grunge

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|----------------------------|--|
| 84. orchid myc_____za | <i>n.</i> a mutually beneficial association between a fungus and the roots of a plant, in which the fungus helps the plant absorb water and nutrients, and the plant provides the fungus with sugars produced through photosynthesis |
| 85. fo_____nts in the snow | <i>n.</i> a mark of a foot, shoe, or animal's foot left on a surface |
| 86. oa_____l cookies | <i>n.</i> a type of cereal made from oats that have been ground or steel-cut |
| 87. long-ex_____t volcano | <i>adj.</i> no longer in existence |
| 88. fer_____ion tank | <i>n.</i> the chemical breakdown of a substance by bacteria, yeasts, or other microorganisms, typically involving effervescence and the giving off of the heat |
| 89. symbiotic fu____s | <i>n.</i> a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive |
| 90. ubi_____us computing | <i>adj.</i> being or existing everywhere at once |
| 91. i__h to speak | <i>v.</i> to have an uncomfortable feeling on the skin that makes you want to scratch it |
| 92. bio_____als industry | <i>n.</i> a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues |

ANSWERS: 84. mycorrhiza, 85. footprint, 86. oatmeal, 87. extinct, 88. fermentation, 89. fungus, 90. ubiquitous, 91. itch, 92. biomaterial

93. re_____te the cell	<i>v.</i> to make an exact copy of something; to repeat a process or experiment to confirm the results
94. em_____ss my project	<i>v.</i> to cause someone to feel awkward, worried, or ashamed
95. me_____e a negotiation	<i>v.</i> to try to bring about an agreement or understanding between people who are in conflict
96. tr_____e down his feelings	<i>v.</i> to step heavily on something or someone, causing damage or injury
97. ima_____ve as a child	<i>adj.</i> having or showing new and creative ideas
98. oa_____l breakfast	<i>n.</i> a type of cereal made from oats that have been ground or steel-cut
99. capable of ima_____ve creation	<i>adj.</i> having or showing new and creative ideas
100. the ba_____ry about this sweet moment	<i>n.</i> the history and events that occur before the main events of a story or the history and details of a person or thing that are not widely known
101. un_____r a potential problem	<i>v.</i> to remove the cover from something; to discover something previously unseen or hidden
102. ind_____us worker	<i>adj.</i> hardworking, diligent, and persistent in effort
103. process of pho_____sis	<i>n.</i> the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.

ANSWERS: 93. replicate, 94. embarrass, 95. mediate, 96. trample, 97. imaginative, 98. oatmeal, 99. imaginative, 100. backstory, 101. uncover, 102. industrious, 103. photosynthesis

- | | |
|--|---|
| 104. 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 |
| 105. ba_____ry plot | <i>n.</i> the history and events that occur before the main events of a story or the history and details of a person or thing that are not widely known |
| 106. sp__l the surprise | <i>v.</i> to ruin the taste, appearance, or quality of something; to become or cause something to become rotten or bad |
| 107. the fo_____nts of an earlier civilization | <i>n.</i> a mark of a foot, shoe, or animal's foot left on a surface |
| 108. in___e the smoke | <i>v.</i> to breathe in air or a different substance, such as smoke |
| 109. ind_____us student | <i>adj.</i> hardworking, diligent, and persistent in effort |
| 110. sy_____is establishment | <i>n.</i> a close, prolonged association between two or more different species of organisms, typically to the advantage of all |
| 111. mis_____and each other | <i>v.</i> to interpret or understand something in the wrong way |
| 112. flexible mi_____t | <i>n.</i> the established set of attitudes or fixed ideas held by someone |
| 113. al__e biofuel | <i>n.</i> A simple plant that grows in or near water and lacks typical leaves and roots |

ANSWERS: 104. mold, 105. backstory, 106. spoil, 107. footprint, 108. inhale, 109. industrious, 110. symbiosis, 111. misunderstand, 112. mindset, 113. algae

114. sp____or of art

n. great brightness; brilliant or stunning
appearance; magnificence

ANSWERS: 114. splendor

Session 3: Fill in the Blanks

1. He was determined to become _____ and not rely on anyone else.
adj. able to provide for one's own needs without assistance from others
2. He decided to start _____ and leave his old life behind.
adv. in a new or different way
3. Glass _____ dishes are used to culture microorganisms.
n. (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
4. The building has become a _____ for fans of the movie.
n. a city and administrative center of the Mecca Province of Saudi Arabia and the holiest city in Islam
5. The company is trying to _____ its business model to stay competitive.
v. to imagine or conceive of something in a new or different way
6. The kids loved playing with the green _____ but it was a nightmare to clean up.
n. a thick, slippery substance that is usually soft and wet
7. The walls of the recording studio were _____ to eliminate outside noise.
v. to make a room or other enclosed space impervious to sound by reducing the transmission of sound through its walls or floor and ceiling; (adjective, of a building) not allowing sound to pass through it
8. Please refrigerate the meat, or it will _____.
v. to decay, or cause something to decay, naturally and gradually

ANSWERS: 1. self-sufficient, 2. anew, 3. petri, 4. mecca, 5. reimagine, 6. slime, 7. soundproofed, 8. rot

9. The process of _____ is used to make beer, wine, and many other products.
- n.* the chemical breakdown of a substance by bacteria, yeasts, or other microorganisms, typically involving effervescence and the giving off of the heat
10. He was known to be very _____ and would often work late into the night.
- adj.* hardworking, diligent, and persistent in effort
11. The experiment was _____ several times to ensure accuracy.
- v.* to make an exact copy of something; to repeat a process or experiment to confirm the results
12. In _____ plants use carbon dioxide to feed themselves.
- n.* the process through which plants and other organisms transform light energy into chemical energy, which is then released through cellular respiration to power the organism's activities.
13. The discovery of a new _____ species made headlines in the scientific community.
- n.* a large extinct reptile, often with an armored back, long neck, tail, and bony plates on the skin
14. The _____ of the palace was breathtaking.
- n.* great brightness; brilliant or stunning appearance; magnificence
15. The _____ of the energy production process is a large amount of carbon dioxide emissions.
- n.* a secondary or incidental product produced in the manufacture or synthesis of something else

ANSWERS: 9. fermentation, 10. industrious, 11. replicated, 12. photosynthesis, 13. dinosaur, 14. splendor, 15. byproduct

16. He continued his investigation and soon _____ another crime.

- v.* to remove the cover from something; to discover something previously unseen or hidden

17. His son had accurately _____ the bloom.

- v.* to illustrate someone or something in a photograph

18. I can't stop _____ my arm because of the mosquito bite.

- v.* to have an uncomfortable feeling on the skin that makes you want to scratch it

19. _____ has jammed the inlet to the water turbine.

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

20. If you leave the milk out of the refrigerator for too long, it will _____.

- v.* to ruin the taste, appearance, or quality of something; to become or cause something to become rotten or bad

21. The _____ fashion style became popular in the early 1990s.

- n.* the state of being covered with dirty things; a type of rock music characterized by heavy use of electric guitar, bass, and drums, and often a bleak or rebellious attitude

22. The phone rang at the most _____ time.

- adj.* suitable or happening at a time that is suitable or convenient for a particular purpose

23. He looked for an opportunity to _____ that actor in public.

- v.* to cause someone to feel awkward, worried, or ashamed

ANSWERS: 16. uncovered, 17. depicted, 18. itching, 19. Algae, 20. spoil, 21. grunge, 22. opportune, 23. embarrass

24. There is plenty of space to _____ everyone.

v. to place a dead body in the ground, grave, or tomb

25. _____ let's change the subject because I don't want to talk about this anymore.

adv. anyway; regardless of what has happened or been said

26. She is a hard worker but not very _____.

adj. having or showing new and creative ideas

27. You should not _____ the meaning of freedom.

v. to interpret or understand something in the wrong way

28. The fossilized _____ was over 500 million years old.

n. a type of extinct arthropod that lived in the oceans of the Paleozoic Era, characterized by a three-lobed body shape and a hard exoskeleton

29. Some studies have shown that plants grown in soil with a high population of _____ fungi are more resistant to drought and disease.

n. a mutually beneficial association between a fungus and the roots of a plant, in which the fungus helps the plant absorb water and nutrients, and the plant provides the fungus with sugars produced through photosynthesis

30. The _____ of the main character added depth to the story.

n. the history and events that occur before the main events of a story or the history and details of a person or thing that are not widely known

31. 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

ANSWERS: 24. bury, 25. Anyhow, 26. imaginative, 27. misunderstand, 28. trilobite, 29. mycorrhizal, 30. backstory, 31. mold

32. She is a _____ person and has always bounced back from setbacks.

adj. able to withstand or recover quickly from difficult conditions

33. Countries whose goal is economic development often focus on fostering an entrepreneurial _____ in each individual.

n. the established set of attitudes or fixed ideas held by someone

34. The _____ risotto was delicious, but I couldn't identify all the mushrooms in it.

n. a type of fungus that grows on dead or decaying organic matter and typically has a stalk and an umbrella-shaped cap

35. The food at the restaurant was _____ and overpriced.

adj. of poor quality; not satisfactory

36. The teacher had to _____ a disagreement between two students over a stolen pencil.

v. to try to bring about an agreement or understanding between people who are in conflict

37. The _____ of the mushroom spread through the soil, absorbing nutrients.

n. the vegetative part of a fungus, consisting of a mass of branching, thread-like hyphae

38. The old building _____ in a fiery inferno.

v. to burst or break open violently and noisily; to cause something to burst or break open

39. The _____ in the light bulb burned out, and now it's not working.

n. a thin wire or thread, especially one used to produce light in an electric bulb

ANSWERS: 32. resilient, 33. mindset, 34. mushroom, 35. crappy, 36. mediate, 37. mycelium, 38. exploded, 39. filament

40. The ocean's ecosystem is being threatened by _____ causing many species to become endangered.
- n.* the removal of too many fish from a body of water, causing a decline in population levels and harm to the ecosystem
41. I love starting my day with a bowl of warm _____ and fresh fruit.
- n.* a type of cereal made from oats that have been ground or steel-cut
42. Many species have become _____ due to habitat destruction and other human activities.
- adj.* no longer in existence
43. The _____ between the coral and the algae is an important example of mutualism.
- n.* a close, prolonged association between two or more different species of organisms, typically to the advantage of all
44. You should not _____ yourself by allowing them to use you.
- v.* to make something worse, especially in quality; to show or treat someone in a way that makes them seem no value and do not have the respect or reasonable opinion of others
45. He _____ deeply, trying to calm down.
- v.* to breathe in air or a different substance, such as smoke
46. The baby's smile _____ her to everyone who saw her.
- v.* to make someone loved or appreciated or to cause someone to feel fondness or affection for someone or something
47. The new _____ used in implants are more durable and less likely to cause an immune response.
- n.* a substance, usually synthetic, that is used for medical or veterinary purposes and is designed to mimic or replace biological tissues

ANSWERS: 40. overfishing, 41. oatmeal, 42. extinct, 43. symbiosis, 44. degrade, 45. inhaled, 46. endeared, 47. biomaterials

48. _____ thrive on the surface of the human skin.
n. a tiny living thing that can only be seen with a microscope and that may cause disease
49. We choose transportation that has a smaller carbon _____.
n. a mark of a foot, shoe, or animal's foot left on a surface
50. The _____ properties of stem cells make them a promising area of research.
adj. tending to regrow or restore lost or injured tissue
51. The deserted island was _____ and uninhabited.
adj. deserted, barren, or lonely; causing a feeling of sadness or hopelessness
52. Certain types of _____ can be toxic to humans, causing severe illness if ingested.
n. a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
53. Bacteria and some algae also produce _____ as a means of survival and dispersal, and they are often found in soil, water, and other environments.
n. a reproductive cell that is capable of developing into a new individual without fertilization, especially one produced by certain bacteria, fungi, and algae
54. After the earthquake, many of the buildings in the city were left in ruins and began to _____.
v. to break down or cause to break down over time into simpler substances or elements

ANSWERS: 48. Microbes, 49. footprint, 50. regenerative, 51. desolate, 52. fungus, 53. spores, 54. decompose

55. Sugar is _____ in food.

adj. being or existing everywhere at once

56. She _____ the atmosphere of the pre-war age with her stage setting.

v. to make something that existed previously happen or appear to exist again

57. The plants in this garden are precious, so you must not _____ them.

v. to step heavily on something or someone, causing damage or injury

ANSWERS: 55. ubiquitous, 56. recreated, 57. trample