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Karen Lloyd: This deep-sea mystery is changing our understanding of life | TED Talk

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Advanced Words Only

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Session 1: Word List

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.

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.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym: cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

obsess

v. to fill the mind of someone continually so that one can't think of anything else

synonym : torment, beset, engross

(1) **obsess** over her weight, (2) he is **obsessed** with the fear

He's utterly **obsessed** with his promotion.

biosphere

n. the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms

synonym : ecosphere, ecospace, ecosystem

(1) terrestrial **biosphere**, (2) artificial **biosphere**

The balance of the **biosphere** is crucial for the survival of species.

seafloor

n. the bottom of the ocean

synonym : ocean floor, benthic zone, abyssal plain

(1) **seafloor** exploration, (2) **seafloor** mapping

The oceanographer studied the **seafloor** topography to understand how it had changed over time.

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.

subsurface

adj. situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface

synonym : beneath the surface, underground, subterranean

(1) **subsurface** mining, (2) **subsurface** oil reserves

The **subsurface** layers of the ocean are still largely unexplored.

hazy

adj. not clear due to a lack of recollection, comprehension, or detail; unsure or perplexed about something

synonym : blurred, clouded, foggy

(1) **hazy** dream, (2) **hazy** atmosphere

My memories of the holiday were **hazy**.

fingerprint

n. a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person

synonym : print, mark, impression

(1) **fingerprint** at a crime scene, (2) **fingerprint** identification

The police used a **fingerprint** scanner to identify the suspect.

jumble

v. to mix or mingle various items, objects, or ideas together in a disordered or confused way, often resulting in a messy or chaotic situation; to create a disorderly or confusing arrangement of things

synonym : mix, scramble, mess up

(1) **jumble** in some herbs and spices, (2) **jumble** together different colors

The children **jumbled** up the puzzle pieces and had to start over.

infinitesimal

adj. extremely small or tiny; almost negligible in size or quantity

synonym : tiny, minuscule, microscopic

(1) **infinitesimal** variation, (2) **infinitesimal** change

The scientist used an **infinitesimal** amount of the compound in their experiment.

ancestor

n. a person from whom one is descended; a forefather

synonym : forebear, forefather, progenitor

(1) **ancestor** language, (2) earliest human **ancestor**

My remote **ancestor** immigrated to the United States from Ireland in the 1800s.

chimpanzee

n. a small, very intelligent ape found in west and central Africa with black or brown fur

synonym : ape, chimp, pan troglodytes

(1) **chimpanzee** behavior, (2) **chimpanzee** society

Many zoos have **chimpanzee** exhibits, allowing visitors to observe these intelligent primates up close.

gastrointestinal

adj. relating to the stomach and intestines, particularly about the digestive system or related disorders

synonym: digestive, intestinal, stomach

(1) **gastrointestinal** disorders, (2) **gastrointestinal** symptoms

Certain foods can cause **gastrointestinal** problems if eaten in excess.

coli

n. a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry

(1) E. **coli** bacteria strain, (2) **coli** cells

The study of Escherichia **coli** has led to important advancements in areas such as antibiotic resistance, gut microbiome, and synthetic biology.

difficile

n. a bacterium of the genus Clostridium that can cause severe diarrhea, particularly in a hospital or nursing home settings; a disease caused by this bacterium; (adjective) difficult or hard to do, understand, or deal with

(1) Clostridioides **difficile**, (2) **difficile** to understand

My grandmother was hospitalized due to a severe Clostridium **difficile** infection, which required several rounds of antibiotics and careful monitoring by the medical staff.

opportunistic

adj. making use of a current situation to get power or advantage, especially regardless of planning or principle

synonym: timeserving, conciliatory

(1) **opportunistic** fungus, (2) **opportunistic** behavior

Many of the party's members joined for simply **opportunistic** reasons.

pathogen

n. a bacterium, virus, or other microorganism that causes disease

synonym: germ, microbe, bacterium

(1) plant **pathogen**, (2) the **pathogen** in the air
mRNA vaccines are approved faster because they do not contain inactivated **pathogens**.

ethnography

n. the study of social groups and cultures, often conducted through observation, interviews, and analysis of primary sources; a written account of such a study

synonym: anthropology, cultural analysis

(1) **ethnography** research, (2) **ethnography** methods
The book is a rich and detailed **ethnography** of the cultural practices of a group of people.

sibling

n. a brother or sister; member of a family born to the same parents

synonym: brother, sister, relative

(1) have a **sibling** quarrel, (2) play with my **siblings**
Children often copy their parents or elder **siblings**.

kinship

n. the state or fact of being related to someone

synonym: family, relationship, connection

(1) **kinship** ties, (2) **kinship** relations
She felt a sense of **kinship** with her new colleagues.

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.

disappoint

v. to fail to meet someone or their hopes or expectations; to make someone feel sad

synonym: sadden, dismay, frustrate

(1) **disappoint** the audience, (2) don't **disappoint** me
She worked very hard not to **disappoint** her boss's

expectations.

exhilarating

adj. making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill

synonym: thrilling, exciting, stimulating

(1) an **exhilarating** drink, (2) **exhilarating** view

Bungee jumping was an **exhilarating** experience that left me shaking with adrenaline.

tantalize

v. to tease or torment by presenting something desirable but out of reach or unattainable; to tempt or lure with the promise of something desirable

synonym: tease, tempt, torment

(1) **tantalize** taste buds, (2) **tantalize** with promises

The smell of freshly baked cookies in the kitchen **tantalized** me.

zeptosecond

n. a unit of time equal to one trillionth of one billionth of a second (10^{-21} seconds), which is one of the smallest known units of time measurement

(1) **zeptosecond** time, (2) **zeptosecond** range

Currently, no scientific evidence or technology is capable of measuring time intervals at the **zeptosecond** level.

humming

adj. producing a continuous, low, vibrating sound like that of the bee

synonym: buzzing, droning, vibrating

(1) **humming** sound, (2) **humming** bird

The **humming** of the bees filled the air as she walked through the garden.

pineapple

n. tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack

synonym: ananas, tropical fruit, bromeliad

(1) ripe **pineapple**, (2) canned **pineapple**

I love to eat fresh **pineapple** in my fruit salad.

nanoscale

adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale

(1) **nanoscale** device, (2) things at the **nanoscale**

This process improves the strength of the metal by controlling the **nanoscale** lattice structure of the metal.

colonize

v. to establish a colony in or on a specific place; to settle or occupy in large numbers

synonym: settle, occupy, inhabit

(1) **colonize** planets, (2) **colonize** for cultivation

European powers **colonized** much of the Americas in the 16th and 17th centuries.

streptococcus

n. a genus of bacteria that includes many species, some of which can cause a wide range of infections in humans and animals, including strep throat, pneumonia, and skin infections

synonym: bacteria, germs, microbes

(1) **streptococcus** infection, (2) group A **streptococcus**
Streptococcus mutans is a type of bacteria that can cause tooth decay.

overgrown

adj. covered in plants that have been allowed to grow naturally and have not been controlled

synonym: leafy, lush, verdant

(1) an **overgrown** garden, (2) **overgrown** child

The wooden gate had been damaged, and the hedge had become **overgrown**.

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.

contaminate

v. to make something impure, unclean, or poisonous by contact or mixture

synonym: defile, pollute, adulterate

(1) **contaminate** with a disease, (2) **contaminate** his ego

We strive not to **contaminate** the environment when demolishing petroleum plants.

dictate

v. to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded

synonym: read out, prescribe, order

(1) **dictate** a letter to secretary, (2) **dictate** to the associate

The allies **dictated** the terms of surrender to the country.

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.

circulatory

adj. relating to the system that moves blood through the body, which includes the heart, arteries, and veins

synonym: circulative, rotating

(1) a **circulatory** disease, (2) cause **circulatory** failure shock

The **circulatory** system of the animal is also responsible for heat transportation.

lifespan

n. the length of time for which a person, animal lives, or thing exists

synonym: duration, lifetime, continuance

(1) **lifespan** extension, (2) **lifespan** retrieval curve

Generally speaking, men have a shorter **lifespan** than women.

frenetic

adj. frenzied, fast-paced, and full of energy or activity; characterized by intense and chaotic busyness or agitation

synonym : frenzied, hyperactive, violent

(1) **frenetic** dancing, (2) **frenetic** energy

The **frenetic** pace of the city can be overwhelming for some people.

biomedical

adj. relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

synonym : medical, clinical, health-related

(1) **biomedical** assay, (2) cutting-edge **biomedical**

Biomedical engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.

speculate

v. to form a theory or conjecture or guess about a subject without solid evidence

synonym : assume, conjecture, infer

(1) **speculate** about the reason, (2) **speculate** on the outcome

He **speculated** that this investment would lead to success.

Session 2: Spelling

- | | |
|-------------------------------------|---|
| 1. se____or exploration | <i>n.</i> the bottom of the ocean |
| 2. di_____e a letter to secretary | <i>v.</i> to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded |
| 3. environmental det_____nt | <i>n.</i> a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result |
| 4. ob___s over her weight | <i>v.</i> to fill the mind of someone continually so that one can't think of anything else |
| 5. inf_____mal variation | <i>adj.</i> extremely small or tiny; almost negligible in size or quantity |
| 6. fr_____ic energy | <i>adj.</i> frenzied, fast-paced, and full of energy or activity; characterized by intense and chaotic busyness or agitation |
| 7. hu_____g bird | <i>adj.</i> producing a continuous, low, vibrating sound like that of the bee |
| 8. maintain the pr_____ne condition | <i>adj.</i> new and completely free from dirt or contamination |
| 9. gas_____nal symptoms | <i>adj.</i> relating to the stomach and intestines, particularly about the digestive system or related disorders |
| 10. mi__c a human voice | <i>v.</i> to imitate someone's speech, movement, or behavior, especially to make others laugh |
| 11. h__y dream | <i>adj.</i> not clear due to a lack of recollection, comprehension, or detail; unsure or perplexed about something |

ANSWERS: 1. seafloor, 2. dictate, 3. determinant, 4. obsess, 5. infinitesimal, 6. frenetic, 7. humming, 8. pristine, 9. gastrointestinal, 10. mimic, 11. hazy

12. cause cir_____ry failure shock *adj.* relating to the system that moves blood through the body, which includes the heart, arteries, and veins
13. pe__i dish test *n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
14. Clostridioides di_____le *n.* a bacterium of the genus Clostridium that can cause severe diarrhea, particularly in a hospital or nursing home settings; a disease caused by this bacterium; (adjective) difficult or hard to do, understand, or deal with
15. sp_____te on the outcome *v.* to form a theory or conjecture or guess about a subject without solid evidence
16. ov_____wn child *adj.* covered in plants that have been allowed to grow naturally and have not been controlled
17. se_____or mapping *n.* the bottom of the ocean
18. str_____cus infection *n.* a genus of bacteria that includes many species, some of which can cause a wide range of infections in humans and animals, including strep throat, pneumonia, and skin infections
19. con_____te his ego *v.* to make something impure, unclean, or poisonous by contact or mixture
20. bio_____al assay *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

ANSWERS: 12. circulatory, 13. petri, 14. difficile, 15. speculate, 16. overgrown, 17. seafloor, 18. streptococcus, 19. contaminate, 20. biomedical

21. ki____p relations *n.* the state or fact of being related to someone
22. bacteria on pe__i dishes *n.* (petri dish) a small, clear, and round dish with a lid used in laboratories, especially for growing bacteria
23. mi__c numerous instruments *v.* to imitate someone's speech, movement, or behavior, especially to make others laugh
24. the pa____en in the air *n.* a bacterium, virus, or other microorganism that causes disease
25. ripe pi_____le *n.* tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack
26. fin_____nt at a crime scene *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
27. h__y atmosphere *adj.* not clear due to a lack of recollection, comprehension, or detail; unsure or perplexed about something
28. sub_____ce mining *adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
29. dis_____nt the audience *v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
30. hu____g sound *adj.* producing a continuous, low, vibrating sound like that of the bee

ANSWERS: 21. kinship, 22. petri, 23. mimic, 24. pathogen, 25. pineapple, 26. fingerprint, 27. hazy, 28. subsurface, 29. disappoint, 30. humming

31. co_____ze planets *v.* to establish a colony in or on a specific place; to settle or occupy in large numbers
32. a det_____nt of crop yields *n.* a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
33. process of pho_____sis *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.
34. fin_____nt identification *n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
35. di_____le to understand *n.* a bacterium of the genus Clostridium that can cause severe diarrhea, particularly in a hospital or nursing home settings; a disease caused by this bacterium; (adjective) difficult or hard to do, understand, or deal with
36. pathogenic mi_____e *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
37. eth_____hy methods *n.* the study of social groups and cultures, often conducted through observation, interviews, and analysis of primary sources; a written account of such a study
38. chi_____ee behavior *n.* a small, very intelligent ape found in west and central Africa with black or brown fur

ANSWERS: 31. colonize, 32. determinant, 33. photosynthesis, 34. fingerprint, 35. difficile, 36. microbe, 37. ethnography, 38. chimpanzee

39. ki____p ties *n.* the state or fact of being related to someone
40. ju___e in some herbs and spices *v.* to mix or mingle various items, objects, or ideas together in a disordered or confused way, often resulting in a messy or chaotic situation; to create a disorderly or confusing arrangement of things
41. an ov_____wn garden *adj.* covered in plants that have been allowed to grow naturally and have not been controlled
42. 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
43. con_____te with a disease *v.* to make something impure, unclean, or poisonous by contact or mixture
44. co_____ze for cultivation *v.* to establish a colony in or on a specific place; to settle or occupy in large numbers
45. c__i cells *n.* a bacterium of the genus *Escherichia* that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
46. have a si_____g quarrel *n.* a brother or sister; member of a family born to the same parents
47. cutting-edge bio_____al *adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare

ANSWERS: 39. kinship, 40. jumble, 41. overgrown, 42. microbiology, 43. contaminate, 44. colonize, 45. coli, 46. sibling, 47. biomedical

48. ta_____ze with promises *v.* to tease or torment by presenting something desirable but out of reach or unattainable; to tempt or lure with the promise of something desirable
49. fr_____ic dancing *adj.* frenzied, fast-paced, and full of energy or activity; characterized by intense and chaotic busyness or agitation
50. di_____e to the associate *v.* to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded
51. terrestrial bi_____re *n.* the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms
52. oxygenic pho_____sis *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.
53. group A str_____cus *n.* a genus of bacteria that includes many species, some of which can cause a wide range of infections in humans and animals, including strep throat, pneumonia, and skin infections
54. opp_____tic fungus *adj.* making use of a current situation to get power or advantage, especially regardless of planning or principle
55. inf_____mal change *adj.* extremely small or tiny; almost negligible in size or quantity
56. a cir_____ry disease *adj.* relating to the system that moves blood through the body, which includes the heart, arteries, and veins

ANSWERS: 48. tantalize, 49. frenetic, 50. dictate, 51. biosphere, 52. photosynthesis, 53. streptococcus, 54. opportunistic, 55. infinitesimal, 56. circulatory

57. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
58. sp_____te about the reason *v.* to form a theory or conjecture or guess about a subject without solid evidence
59. gas_____nal disorders *adj.* relating to the stomach and intestines, particularly about the digestive system or related disorders
60. chi_____ee society *n.* a small, very intelligent ape found in west and central Africa with black or brown fur
61. eth_____hy research *n.* the study of social groups and cultures, often conducted through observation, interviews, and analysis of primary sources; a written account of such a study
62. ju___e together different colors *v.* to mix or mingle various items, objects, or ideas together in a disordered or confused way, often resulting in a messy or chaotic situation; to create a disorderly or confusing arrangement of things
63. mi_____es sterilizer *n.* a tiny living thing that can only be seen with a microscope and that may cause disease
64. 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

ANSWERS: 57. nanoscale, 58. speculate, 59. gastrointestinal, 60. chimpanzee, 61. ethnography, 62. jumble, 63. microbe, 64. microbiology

65. an exh_____ing drink *adj.* making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill
66. zep_____nd time *n.* a unit of time equal to one trillionth of one billionth of a second (10^{-21} seconds), which is one of the smallest known units of time measurement
67. earliest human an_____or *n.* a person from whom one is descended; a forefather
68. an_____or language *n.* a person from whom one is descended; a forefather
69. sub_____ce oil reserves *adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
70. he is ob____sed with the fear *v.* to fill the mind of someone continually so that one can't think of anything else
71. don't dis_____nt me *v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
72. plant pa_____en *n.* a bacterium, virus, or other microorganism that causes disease
73. canned pi_____le *n.* tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack
74. E. c__i bacteria strain *n.* a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry

ANSWERS: 65. exhilarating, 66. zeptosecond, 67. ancestor, 68. ancestor, 69. subsurface, 70. obsess, 71. disappoint, 72. pathogen, 73. pineapple, 74. coli

75. pr____ne beach *adj.* new and completely free from dirt or contamination
76. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
77. li_____an retrieval curve *n.* the length of time for which a person, animal lives, or thing exists
78. ta_____ze taste buds *v.* to tease or torment by presenting something desirable but out of reach or unattainable; to tempt or lure with the promise of something desirable
79. li_____an extension *n.* the length of time for which a person, animal lives, or thing exists
80. zep_____nd range *n.* a unit of time equal to one trillionth of one billionth of a second (10^{-21} seconds), which is one of the smallest known units of time measurement
81. artificial bi_____re *n.* the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms
82. opp_____tic behavior *adj.* making use of a current situation to get power or advantage, especially regardless of planning or principle
83. play with my si_____gs *n.* a brother or sister; member of a family born to the same parents
84. exh_____ing view *adj.* making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill

ANSWERS: 75. pristine, 76. nanoscale, 77. lifespan, 78. tantalize, 79. lifespan, 80. zeptosecond, 81. biosphere, 82. opportunistic, 83. sibling, 84. exhilarating

ANSWERS:

Session 3: Fill in the Blanks

1. 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
2. It is terrific to camp in _____ nature.
 - adj.* new and completely free from dirt or contamination
3. The _____ layers of the ocean are still largely unexplored.
 - adj.* situated or located beneath the surface of something; existing or occurring within the deeper layers of a material or object, often referring to areas below the Earth's surface
4. My memories of the holiday were _____.
 - adj.* not clear due to a lack of recollection, comprehension, or detail; unsure or perplexed about something
5. He's utterly _____ with his promotion.
 - v.* to fill the mind of someone continually so that one can't think of anything else
6. The wooden gate had been damaged, and the hedge had become _____.
 - adj.* covered in plants that have been allowed to grow naturally and have not been controlled
7. He _____ that this investment would lead to success.
 - v.* to form a theory or conjecture or guess about a subject without solid evidence

ANSWERS: 1. microbiology, 2. pristine, 3. subsurface, 4. hazy, 5. obsessed, 6. overgrown, 7. speculated

8. Bungee jumping was an _____ experience that left me shaking with adrenaline.
adj. making one feel very happy and lively; invigorating; providing a feeling of excitement or thrill
9. Many of the party's members joined for simply _____ reasons.
adj. making use of a current situation to get power or advantage, especially regardless of planning or principle
10. She worked very hard not to _____ her boss's expectations.
v. to fail to meet someone or their hopes or expectations; to make someone feel sad
11. The children _____ up the puzzle pieces and had to start over.
v. to mix or mingle various items, objects, or ideas together in a disordered or confused way, often resulting in a messy or chaotic situation; to create a disorderly or confusing arrangement of things
12. 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
13. The study of Escherichia _____ has led to important advancements in areas such as antibiotic resistance, gut microbiome, and synthetic biology.
n. a bacterium of the genus Escherichia that is commonly found in the human gut and is used as a model organism in molecular biology and biochemistry
14. Children often copy their parents or elder _____.
n. a brother or sister; member of a family born to the same parents

ANSWERS: 8. exhilarating, 9. opportunistic, 10. disappoint, 11. jumbled, 12. mimic, 13. coli, 14. siblings

15. _____ mutans is a type of bacteria that can cause tooth decay.
- n.* a genus of bacteria that includes many species, some of which can cause a wide range of infections in humans and animals, including strep throat, pneumonia, and skin infections
16. 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
17. Currently, no scientific evidence or technology is capable of measuring time intervals at the _____ level.
- n.* a unit of time equal to one trillionth of one billionth of a second (10^{-21} seconds), which is one of the smallest known units of time measurement
18. mRNA vaccines are approved faster because they do not contain inactivated _____.
- n.* a bacterium, virus, or other microorganism that causes disease
19. The book is a rich and detailed _____ of the cultural practices of a group of people.
- n.* the study of social groups and cultures, often conducted through observation, interviews, and analysis of primary sources; a written account of such a study
20. The _____ pace of the city can be overwhelming for some people.
- adj.* frenzied, fast-paced, and full of energy or activity; characterized by intense and chaotic busyness or agitation
21. The allies _____ the terms of surrender to the country.
- v.* to state or give order with total authority; to say or read aloud for somebody else to write down or to be recorded

ANSWERS: 15. Streptococcus, 16. petri, 17. zeptosecond, 18. pathogens, 19. ethnography, 20. frenetic, 21. dictated

22. This process improves the strength of the metal by controlling the _____ lattice structure of the metal.
adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
23. One _____ of success is having a positive attitude and a strong work ethic.
n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result
24. The _____ system of the animal is also responsible for heat transportation.
adj. relating to the system that moves blood through the body, which includes the heart, arteries, and veins
25. European powers _____ much of the Americas in the 16th and 17th centuries.
v. to establish a colony in or on a specific place; to settle or occupy in large numbers
26. _____ 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
27. The _____ of the bees filled the air as she walked through the garden.
adj. producing a continuous, low, vibrating sound like that of the bee
28. The scientist used an _____ amount of the compound in their experiment.
adj. extremely small or tiny; almost negligible in size or quantity

ANSWERS: 22. nanoscale, 23. determinant, 24. circulatory, 25. colonized, 26. Microbes, 27. humming, 28. infinitesimal

29. I love to eat fresh _____ in my fruit salad.
- n.* tropical fruit with a rough, spiky exterior and sweet, juicy flesh inside, often used in cooking, baking, or as a snack
30. My grandmother was hospitalized due to a severe Clostridium _____ infection, which required several rounds of antibiotics and careful monitoring by the medical staff.
- n.* a bacterium of the genus Clostridium that can cause severe diarrhea, particularly in a hospital or nursing home settings; a disease caused by this bacterium; (adjective) difficult or hard to do, understand, or deal with
31. The smell of freshly baked cookies in the kitchen _____ me.
- v.* to tease or torment by presenting something desirable but out of reach or unattainable; to tempt or lure with the promise of something desirable
32. Certain foods can cause _____ problems if eaten in excess.
- adj.* relating to the stomach and intestines, particularly about the digestive system or related disorders
33. _____ engineering focuses on developing new medical technologies and innovations to improve patient health outcomes.
- adj.* relating to the application of the natural sciences, especially biology, and physiology, to clinical medicine and healthcare
34. 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.
35. We strive not to _____ the environment when demolishing petroleum plants.
- v.* to make something impure, unclean, or poisonous by contact or mixture

ANSWERS: 29. pineapple, 30. difficile, 31. tantalized, 32. gastrointestinal, 33. Biomedical, 34. photosynthesis, 35. contaminate

36. Many zoos have _____ exhibits, allowing visitors to observe these intelligent primates up close.
- n.* a small, very intelligent ape found in west and central Africa with black or brown fur
37. Generally speaking, men have a shorter _____ than women.
- n.* the length of time for which a person, animal lives, or thing exists
38. The police used a _____ scanner to identify the suspect.
- n.* a unique pattern of ridges and valleys on the surface of a finger that can be used to identify a person
39. The balance of the _____ is crucial for the survival of species.
- n.* the part of the Earth and its atmosphere in which living organisms exist, including plants, animals, and microorganisms
40. The oceanographer studied the _____ topography to understand how it had changed over time.
- n.* the bottom of the ocean
41. She felt a sense of _____ with her new colleagues.
- n.* the state or fact of being related to someone
42. My remote _____ immigrated to the United States from Ireland in the 1800s.
- n.* a person from whom one is descended; a forefather

ANSWERS: 36. chimpanzee, 37. lifespan, 38. fingerprint, 39. biosphere, 40. seafloor, 41. kinship, 42. ancestor