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Susan Shaw: The oil spill's toxic trade-off | TED Talk
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Advanced Words Only

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Session 1: Word List

toxicology

n. the study of poisonous substances and their effects on organisms, including humans

(1) molecular **toxicology**, (2) forensic **toxicology**

The **toxicology** report showed that the victim had high levels of poison in their system.

gulf

n. a large ocean inlet or deep bay that is partially enclosed by land

synonym: chasm, divide, abyss

(1) **gulf** war, (2) **gulf** stream

The **Gulf** of Mexico is a body of water in the southern United States.

dispersant

n. a substance or agent that is used to disperse, scatter, or distribute particles or substances within a medium, often used in industrial processes or in environmental cleanup to break up and disperse oil spills, for example

synonym: disperser, suspending agent

(1) chemical **dispersant**, (2) water-based **dispersant**

The emergency response team quickly deployed **dispersant** agents to tackle the oil spill at sea.

mammal

n. any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own

body

(1) a primitive **mammal**, (2) a sort of **mammal**

Marine **mammal** populations are declining worldwide due to ocean pollution.

staggering

adj. so shocking as to stun or overwhelm

synonym: astounding, astonishing, stunning

(1) **staggering** number, (2) a **staggering** defeat

The amount of money required was **staggering**.

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.

retardant

n. a substance used to slow or prevent the spread of fire; a chemical added to a material to make it less flammable; (adjective) of or relating to something that slows down or inhibits a process or action

synonym: inhibitor, suppressant, stopper

(1) age **retardant**, (2) fire- **retardant** equipment

The engineer added a corrosion **retardant** to the metal structure to extend its lifespan

bromine

n. a chemical element with the symbol Br and atomic number 35, which is a reddish-brown volatile liquid halogen used in various industrial applications such as disinfectants, flame retardants, and pharmaceuticals

synonym: Br

(1) **bromine** gas, (2) atmospheric **bromine**

The lab technician handled the **bromine** solution with extreme caution.

neurotoxin

n. a poisonous substance that damages or destroys nerve tissue and causes neurological damage or dysfunction; a toxin that specifically targets the nervous system

(1) snake **neurotoxin**, (2) lethal **neurotoxin**

Certain types of fish contain **neurotoxins** that can harm humans if ingested.

ignite

v. to set on fire; to cause to start burning

synonym: light, set fire to, enkindle

(1) **ignite** a boom, (2) **ignite** passion

He **ignited** the fireworks with a single spark.

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.

brainwash

v. to indoctrinate someone into a belief system or ideology by means of sustained persuasion or propaganda

synonym: indoctrinate, manipulate

(1) **brainwash** consumers into buying, (2) **brainwash** young people into joining

The cult leader tried to **brainwash** his followers into believing he was a god.

slick

adj. smoothly polished and shiny; cleverly and smoothly done; well-organized and efficient

synonym: smooth, polished, shiny

(1) a **slick** operation, (2) **slick** design

The politician gave a **slick** speech, but it was full of empty promises.

hazmat

n. abbreviation of Hazardous Material, referring to substances that pose a risk to human health and the environment

synonym: hazardous material, toxic substances

(1) **hazmat** material, (2) **hazmat** incident

The hazardous materials team was called to the scene in

their **hazmat** suits.

ferocious

adj. very fierce, savage, or cruel

synonym : savage, fierce, brutal

(1) **ferocious** beast, (2) **ferocious** predator

The lion's **ferocious** roar could be heard from miles away.

haunted

adj. inhabited, visited, or frequented by ghosts or spirits; disturbed or troubled by persistent or disturbing memories or emotions

synonym : spooky, eerie, ghostly

(1) **haunted** house, (2) **haunted** by memories

The old mansion was known to be **haunted**, with strange noises and eerie sightings reported by visitors.

droplet

n. a small drop of liquid

synonym : bead, drip, dewdrop

(1) **droplet** size, (2) **droplet** formation

A single **droplet** of water can reflect the entire world upside down.

disperse

v. to spread out or distribute over a broad region, or to cause something to do so

synonym : dissipate, spread, scatter

(1) **disperse** false information, (2) **disperse** the protesters

Before authorities **dispersed** the protesters, they yelled slogans.

plankton

n. tiny forms of plant and animal life that live in water or air on which other animals feed

(1) **plankton** blooms, (2) **plankton** community

Plankton is generally the foundation of the ocean food chain.

wisp

n. a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering,

translucent figure

synonym : strand, thread, filament

(1) a **wisp** of mist, (2) a **wisp** of conversation

The **wisp** of smoke from the candle added to the room's cozy
ambiance.

trade-off

n. a balance achieved between two desirable but
incompatible features; an exchange that occurs as a
compromise

synonym : compromise, balance, exchange

(1) **trade-off** problem, (2) environmental **trade-off**

There was a **trade-off** between speed and accuracy in the
task.

marsh

n. a type of land that is always wet and has soft soil;
swamp or bog

synonym : bog, swamp, fen

(1) **marsh** bird, (2) river-delta **marsh**

Environmentalists are concerned about the harm to the
marsh.

mangrove

n. a tropical coastal tree or shrub that grows in saline soil
and has prop roots that help to stabilize it

(1) **mangrove** forest, (2) **mangrove** swamp

The **mangrove** trees are known for their ability to survive in
saltwater and sandy soil.

darn

v. to mend a piece of clothing by sewing over a hole or tear
with small, tight stitches

synonym : mend, repair, patch

(1) **darn** stockings, (2) **darn** hole

I have to **darn** these socks before they become unwearable.

plume

n. a large feather or group of feathers worn as an
ornament or a symbol of achievement or distinction,
especially on a hat

synonym :

feather, honor, token

(1) **plume** of smoke, (2) **plume** of feathers

The bird had a beautiful **plume** on its head.

loom

v. to appear or take shape as a large, especially in a frightening way

synonym: appear, come on, overshadow

(1) **loom** over the global economy, (2) **loom** on the horizon

The issue of divorce **loomed** large in his mind.

fume

v. to emit gas, smoke, vapor, or a strong, unpleasant odor; to show anger, irritation, or annoyance in a visible way;
(noun) gas or vapor that is emitted from a substance, usually as a result of heating or combustion

synonym: smoke, vaporize, emit

(1) **fume** with anger, (2) acrid **fumes**

The angry customer began to **fume** when their order was delayed.

doe

n. a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

synonym: rabbit, bunny, hare

(1) **doe** rabbit, (2) buck and **doe**

Hunters use a whistle that makes the **doe** sound to lure stags.

micelle

n. a tiny spherical structure that forms when certain molecules are dispersed in a liquid, such as a colloid or suspension, typically composed of molecules with a hydrophilic (water-loving) "head" and a hydrophobic (water-repellent) "tail"

synonym: globule, droplet, bubble

(1) **micelle** formation, (2) **micelle** stability

The **micelles** in this skincare product help remove dirt and oil from the pores.

surfactant

n. a substance that reduces the surface tension between a liquid and a solid or between two liquids, typically used to stabilize or emulsify mixtures; a thin film or layer formed at the surface of a liquid

synonym: wetting agent, cleaner, detergent

(1) **surfactant** molecule, (2) **surfactant** production

The **surfactant** in this cleaning solution helps to break down tough stains.

glob

n. a small, round mass or lump; a drop or blob of liquid or viscous substance

synonym: ball, lump, sphere

(1) **glob** of paint, (2) **glob** of honey

She squeezed a **glob** of toothpaste onto her toothbrush.

toxin

n. a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism

synonym: poison, venom, contaminant

(1) **toxin** exposure, (2) **toxin** production

Mold exposure can release dangerous **toxins** into the air.

hasten

v. to move or act quickly; to cause or encourage something to happen sooner or more rapidly; to accelerate or speed up

synonym: accelerate, hurry, rush

(1) **hasten** the process, (2) **hasten** the arrival

I need to **hasten** my speed to finish the race on time.

hydrocarbon

n. an organic compound consisting entirely of hydrogen and carbon

(1) **hydrocarbon** production, (2) **hydrocarbon** molecules in crude oil

Burning **hydrocarbons** releases water vapor and carbon dioxide.

synergy

n. the interaction of elements that, when combined, produce a total effect that is greater than the sum of the individual elements

synonym : cooperation, collaboration, partnership

(1) **synergy** collaboration, (2) **synergy** between businesses
The new software program was designed to increase productivity by promoting employee **synergy**.

cartwheel

n. a gymnastic move in which a person performs a spinning movement with the body held straight while moving sideways in a handstand position; the wheel of a cart

synonym : sommersault, wheeling, flip

(1) **cartwheel** kick, (2) attempt a **cartwheel**
The gymnast did a perfect **cartwheel** across the mat.

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.

arsenic

n. a poisonous chemical element that occurs naturally in some rocks and minerals and is sometimes used in pesticides and wood preservatives

synonym : poison, toxin

(1) **arsenic** poisoning, (2) **arsenic** contamination
Exposure to **arsenic** in drinking water can cause serious health problems.

chromium

n. a metallic element with the symbol Cr and atomic number 24, commonly used in the production of alloys, electroplating, and stainless steel

synonym : Cr

(1) **chromium** mining, (2) **chromium** supplement
Chromium-plated fixtures are popular because of their

corrosion resistance.

sorbitan

n. a chemical compound derived from sorbitol (sugar alcohol), often used as an emulsifier or stabilizer in the production of food, cosmetics, and pharmaceuticals

synonym: polysorbate, sorbitol, surfactant

(1) **sorbitan** palmitate, (2) **sorbitan** oleate

The recipe calls for the use of **sorbitan** monostearate as an emulsifier.

distill

v. to purify or refine; to extract the essential elements

synonym: extract, condense, purify

(1) **distill** a liquid, (2) **distill** information

She decided to **distill** her thoughts into a more manageable list.

anguish

n. severe physical or emotional pain or suffering; distress or mental agony

synonym: distress, torment, agony

(1) **anguish** and pain, (2) emotional **anguish**

She suffered from a deep sense of **anguish** following the loss of her loved one.

fertilization

n. the process of joining a sperm and an egg to produce an embryo

synonym: impregnation, pollination, insemination

(1) **fertilization** process, (2) artificial **fertilization**

The **fertilization** of the soil allowed for a bountiful harvest.

indiscriminately

adv. done without any distinction or selection; randomly or without careful consideration

synonym: haphazardly, randomly, willy-nilly

(1) act **indiscriminately**, (2) lay off employees

indiscriminately

The soldiers fired their weapons **indiscriminately** during the battle.

piscivorous

adj. describing an animal or organism that primarily feeds on fish

synonym: fish-eating, ichthyophagous

(1) **piscivorous** mammals, (2) **piscivorous** bird

The coastal region is a haven for **piscivorous** birds like herons and kingfishers.

cob

n. a type of bread made from cornmeal, traditionally associated with Native American cuisine; the central hub or axis of a wheel or turbine; a small, delicately built horse, typically used for riding or light work

synonym: lump, clod, nugget

(1) **cob** construction, (2) **cob** loaf

The chef boiled the corn **cob** in water before roasting it on the grill.

tuna

n. a large fish of the mackerel family, found in warm seas; commonly used for commercial and sport fishing and as a food source for humans and other animals

(1) **tuna** steak, (2) canned **tuna**

I made a **tuna** sandwich for lunch today.

gill

n. a respiratory organ of fish and some other aquatic animals that extracts dissolved oxygen from water and excretes carbon dioxide

synonym: respiratory organ, lung

(1) **gill** slits, (2) **gill** apparatus

The fish's **gills** are necessary for extracting oxygen from the water.

clog

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

synonym: block, jam, obstruct

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

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

pneumonia

n. an infection or inflammation of the lungs, typically caused by bacteria, viruses, or other microorganisms

synonym : lung infection, bronchitis

(1) bacterial **pneumonia**, (2) viral **pneumonia**

She was hospitalized with a severe case of **pneumonia**.

aspiration

n. a strong desire to achieve something; the action or process of drawing breath

synonym : ambition, inhalation, intake

(1) no **aspiration** for fame, (2) **aspiration** into the lungs

He has an **aspiration** to become a doctor.

ingest

v. to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge

synonym : swallow, consume, devour

(1) **ingest** food, (2) **ingest** medication

People who compulsively **ingest** non-food items, such as dirt or chalk, suffer from a condition called pica.

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.

ulcer

n. a sore or erosion in the skin or mucous membrane, often caused by infection or inflammation; a persistent, painful cavity in the stomach or intestinal wall that can lead to digestive problems

synonym : lesion, sore, wound

(1) mouth **ulcer**, (2) gastric **ulcer**

The stress of the job caused him to develop an **ulcer** in his stomach.

lesion

n. a damaged or abnormal area of tissue in the body, usually caused by injury or disease

synonym : injury, wound, damage

(1) muscle **lesion**, (2) brain **lesion**

The doctor examined the **lesion** on the patient's skin to determine if it was cancerous.

hypothesize

v. to form or present a theory or explanation without sufficient evidence; to speculate

synonym: speculate, theorize, conjecture

(1) **hypothesize** as to outcomes, (2) **hypothesize** what could have happened

Scientists **hypothesize** that the new fish species evolved to survive in deep-sea environments.

trophic

adj. of or relating to feeding and nutrition; of or relating to the relationships between organisms and their food sources

synonym: nutrient, nutritional, feeding

(1) **trophic** factor, (2) **trophic** transfer

The **trophic** level of an organism determines its position in the food chain.

cascade

n. a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units

synonym: waterfall, watercourse, step

(1) **cascade** connection, (2) transistor **cascade**

The **cascade** of waterfalls in the national park was a breathtaking sight.

kelp

n. a large brown seaweed that grows in cold coastal waters

synonym: seaweed, marine algae

(1) **kelp** forest, (2) giant **kelp**

The coast was lined with beds of **kelp** swaying in the tide.

barnacle

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

synonym: cirripede, shellfish, crustacean

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

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

decimate

v. to destroy a significant portion of something or reduce by ten percent; to cause extensive destruction or severe damage; to drastically reduce in size or number

synonym: devastate, destroy, annihilate

(1) **decimate** population, (2) **decimate** economy

The hurricane **decimated** the small town, leaving behind destruction and devastation.

secrecy

n. the state or quality of being kept hidden or private; the act of keeping something confidential or unknown to others

synonym: confidentiality, clandestineness, closeness

(1) government **secrecy**, (2) maintain **secrecy**

The company's **secrecy** surrounding its new product launch has created consumer excitement and anticipation.

Session 2: Spelling

1. ha____d house *adj.* inhabited, visited, or frequented by ghosts or spirits; disturbed or troubled by persistent or disturbing memories or emotions
2. ig___e passion *v.* to set on fire; to cause to start burning
3. d_e rabbit *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
4. di____l information *v.* to purify or refine; to extract the essential elements
5. ar____c poisoning *n.* a poisonous chemical element that occurs naturally in some rocks and minerals and is sometimes used in pesticides and wood preservatives
6. g__f war *n.* a large ocean inlet or deep bay that is partially enclosed by land
7. ha___t incident *n.* abbreviation of Hazardous Material, referring to substances that pose a risk to human health and the environment
8. sur_____nt production *n.* a substance that reduces the surface tension between a liquid and a solid or between two liquids, typically used to stabilize or emulsify mixtures; a thin film or layer formed at the surface of a liquid
9. tr_____ff problem *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise

ANSWERS: 1. haunted, 2. ignite, 3. doe, 4. distill, 5. arsenic, 6. gulf, 7. hazmat, 8. surfactant, 9. trade-off

10. ca_____el kick *n.* a gymnastic move in which a person performs a spinning movement with the body held straight while moving sideways in a handstand position; the wheel of a cart
11. in___t food *v.* to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge
12. ha_____d by memories *adj.* inhabited, visited, or frequented by ghosts or spirits; disturbed or troubled by persistent or disturbing memories or emotions
13. ba_____le growth *n.* a type of crustacean that attaches itself to hard surfaces underwater, such as rocks, ships, or docks; a metaphorical term used to describe a person or object that is difficult to remove or separate from another person or object
14. an_____h and pain *n.* severe physical or emotional pain or suffering; distress or mental agony
15. tr_____c transfer *adj.* of or relating to feeding and nutrition; of or relating to the relationships between organisms and their food sources
16. d__n stockings *v.* to mend a piece of clothing by sewing over a hole or tear with small, tight stitches
17. toxic by_____cts *n.* a secondary or incidental product produced in the manufacture or synthesis of something else

ANSWERS: 10. cartwheel, 11. ingest, 12. haunted, 13. barnacle, 14. anguish, 15. trophic, 16. darn, 17. byproduct

18. to__n production *n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
19. snake neu_____in *n.* a poisonous substance that damages or destroys nerve tissue and causes neurological damage or dysfunction; a toxin that specifically targets the nervous system
20. a w__p of conversation *n.* a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure
21. river-delta ma__h *n.* a type of land that is always wet and has soft soil; swamp or bog
22. g__l slits *n.* a respiratory organ of fish and some other aquatic animals that extracts dissolved oxygen from water and excretes carbon dioxide
23. mi_____e stability *n.* a tiny spherical structure that forms when certain molecules are dispersed in a liquid, such as a colloid or suspension, typically composed of molecules with a hydrophilic (water-loving) "head" and a hydrophobic (water-repellent) "tail"
24. canned t__a *n.* a large fish of the mackerel family, found in warm seas; commonly used for commercial and sport fishing and as a food source for humans and other animals

ANSWERS: 18. toxin, 19. neurotoxin, 20. wisp, 21. marsh, 22. gill, 23. micelle, 24. tuna

25. pl__e of feathers *n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat
26. viral pn_____ia *n.* an infection or inflammation of the lungs, typically caused by bacteria, viruses, or other microorganisms
27. chemical dis_____nt *n.* a substance or agent that is used to disperse, scatter, or distribute particles or substances within a medium, often used in industrial processes or in environmental cleanup to break up and disperse oil spills, for example
28. molecular tox_____gy *n.* the study of poisonous substances and their effects on organisms, including humans
29. a sort of ma___l *n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
30. g__l apparatus *n.* a respiratory organ of fish and some other aquatic animals that extracts dissolved oxygen from water and excretes carbon dioxide
31. a sta_____ng defeat *adj.* so shocking as to stun or overwhelm
32. in___e the smoke *v.* to breathe in air or a different substance, such as smoke
33. lethal neu_____in *n.* a poisonous substance that damages or destroys nerve tissue and causes neurological damage or dysfunction; a toxin that specifically targets the nervous system

ANSWERS: 25. plume, 26. pneumonia, 27. dispersant, 28. toxicology, 29. mammal, 30. gill, 31. staggering, 32. inhale, 33. neurotoxin

34. ind_____us student *adj.* hardworking, diligent, and persistent in effort
35. ma_____ve forest *n.* a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it
36. artificial fer_____ion *n.* the process of joining a sperm and an egg to produce an embryo
37. hyd_____on production *n.* an organic compound consisting entirely of hydrogen and carbon
38. fer_____ion process *n.* the process of joining a sperm and an egg to produce an embryo
39. dr_____t formation *n.* a small drop of liquid
40. t__a steak *n.* a large fish of the mackerel family, found in warm seas; commonly used for commercial and sport fishing and as a food source for humans and other animals
41. sy_____y between businesses *n.* the interaction of elements that, when combined, produce a total effect that is greater than the sum of the individual elements
42. hyp_____ze as to outcomes *v.* to form or present a theory or explanation without sufficient evidence; to speculate
43. ca_____e connection *n.* a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
44. br_____sh young people into joining *v.* to indoctrinate someone into a belief system or ideology by means of sustained persuasion or propaganda

ANSWERS: 34. industrious, 35. mangrove, 36. fertilization, 37. hydrocarbon, 38. fertilization, 39. droplet, 40. tuna, 41. synergy, 42. hypothesize, 43. cascade, 44. brainwash

53. no asp_____on for fame *n.* a strong desire to achieve something; the action or process of drawing breath
54. fe_____us beast *adj.* very fierce, savage, or cruel
55. environmental tr_____ff *n.* a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
56. dr_____t size *n.* a small drop of liquid
57. sl__k design *adj.* smoothly polished and shiny; cleverly and smoothly done; well-organized and efficient
58. transistor ca_____e *n.* a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
59. sy_____y collaboration *n.* the interaction of elements that, when combined, produce a total effect that is greater than the sum of the individual elements
60. l__m on the horizon *v.* to appear or take shape as a large, especially in a frightening way
61. atmospheric br_____e *n.* a chemical element with the symbol Br and atomic number 35, which is a reddish-brown volatile liquid halogen used in various industrial applications such as disinfectants, flame retardants, and pharmaceuticals
62. in____t medication *v.* to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge

ANSWERS: 53. aspiration, 54. ferocious, 55. trade-off, 56. droplet, 57. slick, 58. cascade, 59. synergy, 60. loom, 61. bromine, 62. ingest

63. k__p forest *n.* a large brown seaweed that grows in cold coastal waters
64. g__f stream *n.* a large ocean inlet or deep bay that is partially enclosed by land
65. g__b of paint *n.* a small, round mass or lump; a drop or blob of liquid or viscous substance
66. br____e gas *n.* a chemical element with the symbol Br and atomic number 35, which is a reddish-brown volatile liquid halogen used in various industrial applications such as disinfectants, flame retardants, and pharmaceuticals
67. di____l a liquid *v.* to purify or refine; to extract the essential elements
68. mouth ul__r *n.* a sore or erosion in the skin or mucous membrane, often caused by infection or inflammation; a persistent, painful cavity in the stomach or intestinal wall that can lead to digestive problems
69. in___e the aroma *v.* to breathe in air or a different substance, such as smoke
70. ma__h bird *n.* a type of land that is always wet and has soft soil; swamp or bog
71. l__m over the global economy *v.* to appear or take shape as a large, especially in a frightening way
72. c__g artery *v.* to obstruct or block up (a passage, pipe, or system) with an accumulation of thick or sticky matter; to impede or hinder the progress or movement of something

ANSWERS: 63. kelp, 64. gulf, 65. glob, 66. bromine, 67. distill, 68. ulcer, 69. inhale, 70. marsh, 71. loom, 72. clog

73. di_____se the protesters
v. to spread out or distribute over a broad region, or to cause something to do so
74. fe_____us predator
adj. very fierce, savage, or cruel
75. act ind_____ely
adv. done without any distinction or selection; randomly or without careful consideration
76. lay off employees
ind_____ely
adv. done without any distinction or selection; randomly or without careful consideration
77. ind_____us worker
adj. hardworking, diligent, and persistent in effort
78. age re_____nt
n. a substance used to slow or prevent the spread of fire; a chemical added to a material to make it less flammable; (adjective) of or relating to something that slows down or inhibits a process or action
79. c__g a filter
v. to obstruct or block up (a passage, pipe, or system) with an accumulation of thick or sticky matter; to impede or hinder the progress or movement of something
80. ba_____le removal
n. a type of crustacean that attaches itself to hard surfaces underwater, such as rocks, ships, or docks; a metaphorical term used to describe a person or object that is difficult to remove or separate from another person or object
81. f__e with anger
v. to emit gas, smoke, vapor, or a strong, unpleasant odor; to show anger, irritation, or annoyance in a visible way; (noun) gas or vapor that is emitted from a substance, usually as a result of heating or combustion

ANSWERS: 73. disperse, 74. ferocious, 75. indiscriminately, 76. indiscriminately, 77. industrious, 78. retardant, 79. clog, 80. barnacle, 81. fume

82. c_b loaf *n.* a type of bread made from cornmeal, traditionally associated with Native American cuisine; the central hub or axis of a wheel or turbine; a small, delicately built horse, typically used for riding or light work
83. ch____um mining *n.* a metallic element with the symbol Cr and atomic number 24, commonly used in the production of alloys, electroplating, and stainless steel
84. ex____t by human activity *adj.* no longer in existence
85. de____te population *v.* to destroy a significant portion of something or reduce by ten percent; to cause extensive destruction or severe damage; to drastically reduce in size or number
86. long-ex____t volcano *adj.* no longer in existence
87. ig____e a boom *v.* to set on fire; to cause to start burning
88. maintain se____y *n.* the state or quality of being kept hidden or private; the act of keeping something confidential or unknown to others
89. giant k__p *n.* a large brown seaweed that grows in cold coastal waters
90. forensic tox____gy *n.* the study of poisonous substances and their effects on organisms, including humans
91. mi____e formation *n.* a tiny spherical structure that forms when certain molecules are dispersed in a liquid, such as a colloid or suspension, typically composed of molecules with a hydrophilic (water-loving) "head" and a hydrophobic (water-repellent) "tail"

ANSWERS: 82. cob, 83. chromium, 84. extinct, 85. decimate, 86. extinct, 87. ignite, 88. secrecy, 89. kelp, 90. toxicology, 91. micelle

92. ch____um supplement *n.* a metallic element with the symbol Cr and atomic number 24, commonly used in the production of alloys, electroplating, and stainless steel
93. water-based dis_____nt *n.* a substance or agent that is used to disperse, scatter, or distribute particles or substances within a medium, often used in industrial processes or in environmental cleanup to break up and disperse oil spills, for example
94. hyd_____on molecules in crude oil *n.* an organic compound consisting entirely of hydrogen and carbon
95. by_____ct of technology *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
96. a sl__k operation *adj.* smoothly polished and shiny; cleverly and smoothly done; well-organized and efficient
97. so_____an palmitate *n.* a chemical compound derived from sorbitol (sugar alcohol), often used as an emulsifier or stabilizer in the production of food, cosmetics, and pharmaceuticals
98. fire-re_____nt equipment *n.* a substance used to slow or prevent the spread of fire; a chemical added to a material to make it less flammable; (adjective) of or relating to something that slows down or inhibits a process or action
99. gastric ul__r *n.* a sore or erosion in the skin or mucous membrane, often caused by infection or inflammation; a persistent, painful cavity in the stomach or intestinal wall that can lead to digestive problems

ANSWERS: 92. chromium, 93. dispersant, 94. hydrocarbon, 95. byproduct, 96. slick, 97. sorbitan, 98. retardant, 99. ulcer

100. ma_____ve swamp *n.* a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it
101. asp_____on into the lungs *n.* a strong desire to achieve something; the action or process of drawing breath
102. attempt a ca_____el *n.* a gymnastic move in which a person performs a spinning movement with the body held straight while moving sideways in a handstand position; the wheel of a cart
103. sur_____nt molecule *n.* a substance that reduces the surface tension between a liquid and a solid or between two liquids, typically used to stabilize or emulsify mixtures; a thin film or layer formed at the surface of a liquid
104. ar_____c contamination *n.* a poisonous chemical element that occurs naturally in some rocks and minerals and is sometimes used in pesticides and wood preservatives
105. emotional an_____h *n.* severe physical or emotional pain or suffering; distress or mental agony
106. pis_____us bird *adj.* describing an animal or organism that primarily feeds on fish
107. di_____se false information *v.* to spread out or distribute over a broad region, or to cause something to do so
108. pis_____us mammals *adj.* describing an animal or organism that primarily feeds on fish
109. hyp_____ze what could have happened *v.* to form or present a theory or explanation without sufficient evidence; to speculate

ANSWERS: 100. mangrove, 101. aspiration, 102. cartwheel, 103. surfactant, 104. arsenic, 105. anguish, 106. piscivorous, 107. disperse, 108. piscivorous, 109. hypothesize

110. pl_____on blooms *n.* tiny forms of plant and animal life that live in water or air on which other animals feed
111. sta_____ng number *adj.* so shocking as to stun or overwhelm
112. government se_____y *n.* the state or quality of being kept hidden or private; the act of keeping something confidential or unknown to others
113. bacterial pn_____ia *n.* an infection or inflammation of the lungs, typically caused by bacteria, viruses, or other microorganisms
114. brain le____n *n.* a damaged or abnormal area of tissue in the body, usually caused by injury or disease
115. br_____sh consumers into buying *v.* to indoctrinate someone into a belief system or ideology by means of sustained persuasion or propaganda
116. ha____n the process *v.* to move or act quickly; to cause or encourage something to happen sooner or more rapidly; to accelerate or speed up
117. c_b construction *n.* a type of bread made from cornmeal, traditionally associated with Native American cuisine; the central hub or axis of a wheel or turbine; a small, delicately built horse, typically used for riding or light work
118. ha____t material *n.* abbreviation of Hazardous Material, referring to substances that pose a risk to human health and the environment

ANSWERS: 110. plankton, 111. staggering, 112. secrecy, 113. pneumonia, 114. lesion, 115. brainwash, 116. hasten, 117. cob, 118. hazmat

119. pl__e of smoke *n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat
120. tr____c factor *adj.* of or relating to feeding and nutrition; of or relating to the relationships between organisms and their food sources
121. g__b of honey *n.* a small, round mass or lump; a drop or blob of liquid or viscous substance
122. de____te economy *v.* to destroy a significant portion of something or reduce by ten percent; to cause extensive destruction or severe damage; to drastically reduce in size or number
123. buck and d_e *n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit
124. a w__p of mist *n.* a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure

ANSWERS: 119. plume, 120. trophic, 121. glob, 122. decimate, 123. doe, 124. wisp

Session 3: Fill in the Blanks

1. The _____ in this skincare product help remove dirt and oil from the pores.
 - n.* a tiny spherical structure that forms when certain molecules are dispersed in a liquid, such as a colloid or suspension, typically composed of molecules with a hydrophilic (water-loving) "head" and a hydrophobic (water-repellent) "tail"

2. The politician gave a _____ speech, but it was full of empty promises.
 - adj.* smoothly polished and shiny; cleverly and smoothly done; well-organized and efficient

3. The doctor examined the _____ on the patient's skin to determine if it was cancerous.
 - n.* a damaged or abnormal area of tissue in the body, usually caused by injury or disease

4. The company's _____ surrounding its new product launch has created consumer excitement and anticipation.
 - n.* the state or quality of being kept hidden or private; the act of keeping something confidential or unknown to others

5. _____ is generally the foundation of the ocean food chain.
 - n.* tiny forms of plant and animal life that live in water or air on which other animals feed

6. The lab technician handled the _____ solution with extreme caution.
 - n.* a chemical element with the symbol Br and atomic number 35, which is a reddish-brown volatile liquid halogen used in various industrial applications such as disinfectants, flame retardants, and pharmaceuticals

ANSWERS: 1. micelles, 2. slick, 3. lesion, 4. secrecy, 5. Plankton, 6. bromine

7. There was a _____ between speed and accuracy in the task.
n. a balance achieved between two desirable but incompatible features; an exchange that occurs as a compromise
8. The lion's _____ roar could be heard from miles away.
adj. very fierce, savage, or cruel
9. The coastal region is a haven for _____ birds like herons and kingfishers.
adj. describing an animal or organism that primarily feeds on fish
10. I made a _____ sandwich for lunch today.
n. a large fish of the mackerel family, found in warm seas; commonly used for commercial and sport fishing and as a food source for humans and other animals
11. The amount of money required was _____.
adj. so shocking as to stun or overwhelm
12. Before authorities _____ the protesters, they yelled slogans.
v. to spread out or distribute over a broad region, or to cause something to do so
13. The chef boiled the corn _____ in water before roasting it on the grill.
n. a type of bread made from cornmeal, traditionally associated with Native American cuisine; the central hub or axis of a wheel or turbine; a small, delicately built horse, typically used for riding or light work
14. The old mansion was known to be _____ with strange noises and eerie sightings reported by visitors.
adj. inhabited, visited, or frequented by ghosts or spirits; disturbed or troubled by persistent or disturbing memories or emotions

ANSWERS: 7. trade-off, 8. ferocious, 9. piscivorous, 10. tuna, 11. staggering, 12. dispersed, 13. cob, 14. haunted,

15. A single _____ of water can reflect the entire world upside down.
n. a small drop of liquid
16. Burning _____ releases water vapor and carbon dioxide.
n. an organic compound consisting entirely of hydrogen and carbon
17. She decided to _____ her thoughts into a more manageable list.
v. to purify or refine; to extract the essential elements
18. 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
19. The bottom of the boat was covered in _____ slowing its speed in the water.
n. a type of crustacean that attaches itself to hard surfaces underwater, such as rocks, ships, or docks; a metaphorical term used to describe a person or object that is difficult to remove or separate from another person or object
20. The angry customer began to _____ when their order was delayed.
v. to emit gas, smoke, vapor, or a strong, unpleasant odor; to show anger, irritation, or annoyance in a visible way; (noun) gas or vapor that is emitted from a substance, usually as a result of heating or combustion
21. The recipe calls for the use of _____ monostearate as an emulsifier.
n. a chemical compound derived from sorbitol (sugar alcohol), often used as an emulsifier or stabilizer in the production of food, cosmetics, and pharmaceuticals

ANSWERS: 15. droplet, 16. hydrocarbons, 17. distill, 18. byproduct, 19. barnacles, 20. fume, 21. sorbitan

22. The new software program was designed to increase productivity by promoting employee _____.
- n.* the interaction of elements that, when combined, produce a total effect that is greater than the sum of the individual elements
23. I need to _____ my speed to finish the race on time.
- v.* to move or act quickly; to cause or encourage something to happen sooner or more rapidly; to accelerate or speed up
24. Marine _____ populations are declining worldwide due to ocean pollution.
- n.* any animal of which the female gives birth to live young, not eggs, and feeds her young on milk from her own body
25. The cult leader tried to _____ his followers into believing he was a god.
- v.* to indoctrinate someone into a belief system or ideology by means of sustained persuasion or propaganda
26. Exposure to _____ in drinking water can cause serious health problems.
- n.* a poisonous chemical element that occurs naturally in some rocks and minerals and is sometimes used in pesticides and wood preservatives
27. Mold exposure can release dangerous _____ into the air.
- n.* a poisonous substance produced by a living organism, such as a plant, animal, or microorganism; a chemical compound that can cause harm or illness to a living organism
28. The gymnast did a perfect _____ across the mat.
- n.* a gymnastic move in which a person performs a spinning movement with the body held straight while moving sideways in a handstand position; the wheel of a cart

ANSWERS: 22. synergy, 23. hasten, 24. mammal, 25. brainwash, 26. arsenic, 27. toxins, 28. cartwheel

29. Scientists _____ that the new fish species evolved to survive in deep-sea environments.
- v.* to form or present a theory or explanation without sufficient evidence; to speculate
30. The _____ of the soil allowed for a bountiful harvest.
- n.* the process of joining a sperm and an egg to produce an embryo
31. She squeezed a _____ of toothpaste onto her toothbrush.
- n.* a small, round mass or lump; a drop or blob of liquid or viscous substance
32. The stress of the job caused him to develop an _____ in his stomach.
- n.* a sore or erosion in the skin or mucous membrane, often caused by infection or inflammation; a persistent, painful cavity in the stomach or intestinal wall that can lead to digestive problems
33. Environmentalists are concerned about the harm to the _____.
- n.* a type of land that is always wet and has soft soil; swamp or bog
34. The _____ trees are known for their ability to survive in saltwater and sandy soil.
- n.* a tropical coastal tree or shrub that grows in saline soil and has prop roots that help to stabilize it
35. The _____ of waterfalls in the national park was a breathtaking sight.
- n.* a small waterfall or series of small waterfalls; a succession of stages or operations or processes or units
36. The _____ of smoke from the candle added to the room's cozy ambiance.
- n.* a thin, delicate strand or vestige of something, such as smoke, vapor, or a piece of hair; a faint, barely perceptible indication or hint of something; a small creature or fairy, often depicted as a hovering, translucent figure

ANSWERS: 29. hypothesize, 30. fertilization, 31. glob, 32. ulcer, 33. marsh, 34. mangrove, 35. cascade, 36. wisp

37. The hazardous materials team was called to the scene in their _____ suits.
- n.* abbreviation of Hazardous Material, referring to substances that pose a risk to human health and the environment
38. He _____ the fireworks with a single spark.
- v.* to set on fire; to cause to start burning
39. The bird had a beautiful _____ on its head.
- n.* a large feather or group of feathers worn as an ornament or a symbol of achievement or distinction, especially on a hat
40. The _____ in this cleaning solution helps to break down tough stains.
- n.* a substance that reduces the surface tension between a liquid and a solid or between two liquids, typically used to stabilize or emulsify mixtures; a thin film or layer formed at the surface of a liquid
41. The drain was _____ with hair and needed to be cleaned out.
- v.* to obstruct or block up (a passage, pipe, or system) with an accumulation of thick or sticky matter; to impede or hinder the progress or movement of something
42. She suffered from a deep sense of _____ following the loss of her loved one.
- n.* severe physical or emotional pain or suffering; distress or mental agony
43. He _____ deeply, trying to calm down.
- v.* to breathe in air or a different substance, such as smoke
44. Certain types of fish contain _____ that can harm humans if ingested.
- n.* a poisonous substance that damages or destroys nerve tissue and causes neurological damage or dysfunction; a toxin that specifically targets the nervous system

ANSWERS: 37. hazmat, 38. ignited, 39. plume, 40. surfactant, 41. clogged, 42. anguish, 43. inhaled, 44. neurotoxins

45. The engineer added a corrosion _____ to the metal structure to extend its lifespan
- n.* a substance used to slow or prevent the spread of fire; a chemical added to a material to make it less flammable; (adjective) of or relating to something that slows down or inhibits a process or action
46. The _____ level of an organism determines its position in the food chain.
- adj.* of or relating to feeding and nutrition; of or relating to the relationships between organisms and their food sources
47. The emergency response team quickly deployed _____ agents to tackle the oil spill at sea.
- n.* a substance or agent that is used to disperse, scatter, or distribute particles or substances within a medium, often used in industrial processes or in environmental cleanup to break up and disperse oil spills, for example
48. The fish's _____ are necessary for extracting oxygen from the water.
- n.* a respiratory organ of fish and some other aquatic animals that extracts dissolved oxygen from water and excretes carbon dioxide
49. She was hospitalized with a severe case of _____.
- n.* an infection or inflammation of the lungs, typically caused by bacteria, viruses, or other microorganisms
50. The _____ of Mexico is a body of water in the southern United States.
- n.* a large ocean inlet or deep bay that is partially enclosed by land
51. Hunters use a whistle that makes the _____ sound to lure stags.
- n.* a mature female of mammals of which the male is called a buck, such as a deer or a rabbit

ANSWERS: 45. retardant, 46. trophic, 47. dispersant, 48. gills, 49. pneumonia, 50. Gulf, 51. doe

52. _____ fixtures are popular because of their corrosion resistance.
- n.* a metallic element with the symbol Cr and atomic number 24, commonly used in the production of alloys, electroplating, and stainless steel
53. People who compulsively _____ non-food items, such as dirt or chalk, suffer from a condition called pica.
- v.* to take food or drink into the body, often through the mouth; to absorb or assimilate something, often used to describe the intake of information or knowledge
54. The hurricane _____ the small town, leaving behind destruction and devastation.
- v.* to destroy a significant portion of something or reduce by ten percent; to cause extensive destruction or severe damage; to drastically reduce in size or number
55. The issue of divorce _____ large in his mind.
- v.* to appear or take shape as a large, especially in a frightening way
56. He has an _____ to become a doctor.
- n.* a strong desire to achieve something; the action or process of drawing breath
57. Many species have become _____ due to habitat destruction and other human activities.
- adj.* no longer in existence
58. I have to _____ these socks before they become unwearable.
- v.* to mend a piece of clothing by sewing over a hole or tear with small, tight stitches
59. The coast was lined with beds of _____ swaying in the tide.
- n.* a large brown seaweed that grows in cold coastal waters

ANSWERS: 52. Chromium-plated, 53. ingest, 54. decimated, 55. loomed, 56. aspiration, 57. extinct, 58. darn, 59. kelp

60. The _____ report showed that the victim had high levels of poison in their system.

n. the study of poisonous substances and their effects on organisms, including humans

61. The soldiers fired their weapons _____ during the battle.

adv. done without any distinction or selection; randomly or without careful consideration

62. He was known to be very _____ and would often work late into the night.

adj. hardworking, diligent, and persistent in effort

ANSWERS: 60. toxicology, 61. indiscriminately, 62. industrious