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Tina Arrowood: A circular economy for salt that keeps rivers clean | TED Talk

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

Advanced Words Only

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Session 1: Word List

tributary

n. a stream or river that flows into a larger one

synonym: stream, branch, feeder

(1) major **tributary**, (2) **tributary** stream

The **tributary** river flowed into the main river.

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.

temperamental

adj. relating to a person's temperament or disposition; subject to changes in mood or behavior; unpredictable

synonym: moody, unpredictable, volatile

(1) **temperamental** artist, (2) **temperamental** player

The project's success largely depends on the **temperamental** weather in the region.

shoreline

n. a line that separates land and sea

(1) **shoreline** erosion, (2) coral-reef **shoreline**

Flooding occurs along the city's **shoreline** due to the storm

surge.

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.

salinity

n. the presence or amount of salt in a substance, especially in water or soil; the measure of the concentration of dissolved salts in a liquid

synonym: saltiness, brackishness

(1) marine **salinity**, (2) **salinity** intrusion

The **salinity** levels in the ocean have been increasing due to climate change.

jug

n. a container with a handle and spout used for pouring liquids, typically made of ceramics, glass, or metal; (verb) to cook something slowly in a covered container

synonym: pitcher, carafe, decanter

(1) ceramic **jug**, (2) **jug** of beer

She filled the **jug** with ice-cold water from the fridge.

doorway

n. an opening in a wall for a door to fit into

synonym: entrance, portal, gateway

(1) a wide **doorway**, (2) **doorway** to success

He leaned against the **doorway**, waiting for her to come home.

saltiness

n. the quality or state of being salty

(1) the taste of **saltiness**, (2) enhance the **saltiness**

She tasted the dish and detected a slight **saltiness**.

ailment

n. a slight but often persistent illness

synonym: illness, disorder, infection

(1) heart **ailment**, (2) age-related **ailment**

He got timely treatment for his physical **ailment** of severe back pain.

scarcity

n. the state of being in short supply; a small and inadequate amount

synonym: lack, absence, dearth

(1) fuel **scarcity**, (2) **scarcity** of capital

Some research says that a relative decline in teacher salaries is causing labor **scarcity**.

arid

adj. lacking in moisture or rainfall; dry and barren; lacking in interest, life, or vitality

synonym: dry, parched, barren

(1) **arid** terrain, (2) semi- **arid** zone

The desert is known for its **arid** climate and lack of rainfall.

deice

v. to remove ice from a surface, especially from a vehicle or aircraft, using a chemical or mechanical means

synonym: defrost, thaw, melt

(1) **deice** an airplane, (2) **deice** your driveway

I need to **deice** my car before I can drive safely on the icy roads.

recycle

v. to sort and collect things to process them and produce valuable materials that can be used again

synonym: reclaim, reuse, reprocess

(1) **recycle** the cardboard boxes, (2) **recycle** milk packaging into new paper

We largely **recycle** the circuit board of cell phones because they contain a lot of valuable metals.

rehabilitate

v. to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment

synonym: reform, restore, renovate

(1) **rehabilitate** prisoners, (2) **rehabilitate** wildlife

The organization works to **rehabilitate** drug addicts and help them rebuild their lives.

repel

v. to force an attack or attacker to withdraw or retreat

synonym: turn away, fight off, force back

(1) **repel** bandits, (2) **repel** bad luck

This material can **repel** moisture swiftly.

dissolve

v. to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss

synonym: disband, disappear, liquefy

(1) **dissolve** the sugar, (2) officially **dissolved** the marriage

The political party **dissolved** after much internal fighting.

purify

v. to remove harmful substances from something and increase the concentration of it

synonym: refine, filter, clarify

(1) **purify** hydrogen gas, (2) **purify** the blood

The equipment is frequently used to **purify** and distribute drinking water.

osmosis

n. the process by which molecules of a solvent (such as water) move through a semipermeable membrane from a region of higher concentration to a region of lower concentration; the gradual or subtle absorption of knowledge, ideas, or influence from one source to another

synonym: diffusion, permeation, absorption

(1) **osmosis** process, (2) **osmosis** tube

The roots of plants absorb water and nutrients through **osmosis**.

permeable

adj. capable of being penetrated, passed through, or absorbed; allowing liquids, gases, or other substances to pass through a surface or material, often with ease

synonym: porous, absorbent, permeative

(1) **permeable** membrane, (2) air- **permeable** fabric
The soil needs to be **permeable** so water can easily drain through it.

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.

springtime

n. the season of the year between winter and summer, typically associated with the blooming of flowers, growth of plants, and milder weather

synonym: spring, heyday, budtime

(1) **springtime** blooms, (2) **springtime** breeze
I love going for walks in the park during **springtime**.

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.

alkali

n. a soluble base or hydroxide that has a pH greater than 7, is bitter in taste, and can be corrosive or caustic in high concentration, often used in industry for cleaning, neutralization, or manufacturing processes

synonym: base, lye, caustic

(1) **alkali** metal, (2) **alkali** feldspar
The **alkali** solution is used to neutralize acidic spills in laboratories.

epoxy

n. a type of adhesive or resin that is created by combining two components, a resin, and a hardener; (verb) to glue or bind together with a type of synthetic resin known as epoxy, often used in construction, manufacturing, and repair projects

synonym : bond, glue, adhere

(1) **epoxy** putty, (2) **epoxy** a surface

We use an **epoxy** coating to protect the concrete floor from damage.

urethane

n. a synthetic organic compound used as a monomer to manufacture flexible and rigid polyurethane foams, adhesives, and coatings

synonym : ethyl carbamate

(1) **urethane** foam, (2) **urethane** sealant

The car's bumper was coated with a **urethane** layer for extra protection.

regenerate

v. to improve or renew an area, institution, system, etc., especially by making it more active or successful

synonym : renew, revive, improve

(1) **regenerate** bone tissue, (2) a **regenerate** sinner

The new CEO's primary mission is to **regenerate** the company on the verge of bankruptcy.

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.

propylene

n. a chemical compound that is a colorless and flammable gas obtained by cracking petroleum, especially used for making polymers

(1) **propylene** oxide, (2) ethylene- **propylene** rubber

Propylene is an important raw material for plastics, other synthetic resins, and petrochemicals.

undervalue

v. to assign too low a value to something

synonym : underrate, underestimate, devalue

(1) **undervalue** his contribution, (2) **undervalue** the potential

He **undervalued** the importance of teamwork and struggled to succeed.

cape

n. a type of long, loose outer garment that covers the back, shoulders, and arms; a headland or promontory extending into the sea or other large body of water

synonym: shawl, cloak, mantle

(1) **cape** cod, (2) red **cape**

The superhero wore a flowing **cape** as part of their costume.

Session 2: Spelling

1. re__l bad luck *v.* to force an attack or attacker to withdraw or retreat
2. tem_____tal artist *adj.* relating to a person's temperament or disposition; subject to changes in mood or behavior; unpredictable
3. semi-a__d zone *adj.* lacking in moisture or rainfall; dry and barren; lacking in interest, life, or vitality
4. sc_____ty of capital *n.* the state of being in short supply; a small and inadequate amount
5. air-pe_____le fabric *adj.* capable of being penetrated, passed through, or absorbed; allowing liquids, gases, or other substances to pass through a surface or material, often with ease
6. re_____e milk packaging into new paper *v.* to sort and collect things to process them and produce valuable materials that can be used again
7. sa_____ty intrusion *n.* the presence or amount of salt in a substance, especially in water or soil; the measure of the concentration of dissolved salts in a liquid
8. pe_____le membrane *adj.* capable of being penetrated, passed through, or absorbed; allowing liquids, gases, or other substances to pass through a surface or material, often with ease
9. und_____ue the potential *v.* to assign too low a value to something

ANSWERS: 1. repel, 2. temperamental, 3. arid, 4. scarcity, 5. permeable, 6. recycle, 7. salinity, 8. permeable, 9. undervalue

10. pu___y hydrogen gas *v.* to remove harmful substances from something and increase the concentration of it
11. pr_____ne oxide *n.* a chemical compound that is a colorless and flammable gas obtained by cracking petroleum, especially used for making polymers
12. ep__y a surface *n.* a type of adhesive or resin that is created by combining two components, a resin, and a hardener; (verb) to glue or bind together with a type of synthetic resin known as epoxy, often used in construction, manufacturing, and repair projects
13. a wide do_____y *n.* an opening in a wall for a door to fit into
14. op_____ne occasion *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
15. reh_____ate wildlife *v.* to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment
16. ep__y putty *n.* a type of adhesive or resin that is created by combining two components, a resin, and a hardener; (verb) to glue or bind together with a type of synthetic resin known as epoxy, often used in construction, manufacturing, and repair projects
17. the taste of sa_____ss *n.* the quality or state of being salty

ANSWERS: 10. purify, 11. propylene, 12. epoxy, 13. doorway, 14. opportune, 15. rehabilitate, 16. epoxy, 17. saltiness

18. und_____ue his contribution *v.* to assign too low a value to something
19. officially di_____ved the marriage *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
20. reh_____ate prisoners *v.* to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment
21. con_____te his ego *v.* to make something impure, unclean, or poisonous by contact or mixture
22. al____i feldspar *n.* a soluble base or hydroxide that has a pH greater than 7, is bitter in taste, and can be corrosive or caustic in high concentration, often used in industry for cleaning, neutralization, or manufacturing processes
23. red c__e *n.* a type of long, loose outer garment that covers the back, shoulders, and arms; a headland or promontory extending into the sea or other large body of water
24. g__f stream *n.* a large ocean inlet or deep bay that is partially enclosed by land
25. con_____te with a disease *v.* to make something impure, unclean, or poisonous by contact or mixture
26. ind_____us student *adj.* hardworking, diligent, and persistent in effort
27. a reg_____te sinner *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful

ANSWERS: 18. undervalue, 19. dissolve, 20. rehabilitate, 21. contaminate, 22. alkali, 23. cape, 24. gulf, 25. contaminate, 26. industrious, 27. regenerate

28. re__l bandits *v.* to force an attack or attacker to withdraw or retreat
29. spr_____me breeze *n.* the season of the year between winter and summer, typically associated with the blooming of flowers, growth of plants, and milder weather
30. sh_____ne erosion *n.* a line that separates land and sea
31. al___i metal *n.* a soluble base or hydroxide that has a pH greater than 7, is bitter in taste, and can be corrosive or caustic in high concentration, often used in industry for cleaning, neutralization, or manufacturing processes
32. g__f war *n.* a large ocean inlet or deep bay that is partially enclosed by land
33. coral-reef sh_____ne *n.* a line that separates land and sea
34. c__e cod *n.* a type of long, loose outer garment that covers the back, shoulders, and arms; a headland or promontory extending into the sea or other large body of water
35. age-related ai_____t *n.* a slight but often persistent illness
36. tr_____ry stream *n.* a stream or river that flows into a larger one
37. ind_____us worker *adj.* hardworking, diligent, and persistent in effort
38. a__d terrain *adj.* lacking in moisture or rainfall; dry and barren; lacking in interest, life, or vitality
39. by_____ct of technology *n.* a secondary or incidental product produced in the manufacture or synthesis of something else

ANSWERS: 28. repel, 29. springtime, 30. shoreline, 31. alkali, 32. gulf, 33. shoreline, 34. cape, 35. ailment, 36. tributary, 37. industrious, 38. arid, 39. byproduct

46. de__e an airplane *v.* to remove ice from a surface, especially from a vehicle or aircraft, using a chemical or mechanical means
47. spr_____me blooms *n.* the season of the year between winter and summer, typically associated with the blooming of flowers, growth of plants, and milder weather
48. ur_____ne sealant *n.* a synthetic organic compound used as a monomer to manufacture flexible and rigid polyurethane foams, adhesives, and coatings
49. j_g of beer *n.* a container with a handle and spout used for pouring liquids, typically made of ceramics, glass, or metal; (verb) to cook something slowly in a covered container
50. do_____y to success *n.* an opening in a wall for a door to fit into
51. fuel sc_____ty *n.* the state of being in short supply; a small and inadequate amount
52. de__e your driveway *v.* to remove ice from a surface, especially from a vehicle or aircraft, using a chemical or mechanical means
53. enhance the sa_____ss *n.* the quality or state of being salty
54. heart ai_____t *n.* a slight but often persistent illness
55. an op_____ne remark *adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
56. re_____e the cardboard boxes *v.* to sort and collect things to process them and produce valuable materials that can be used again

ANSWERS: 46. deice, 47. springtime, 48. urethane, 49. jug, 50. doorway, 51. scarcity, 52. deice, 53. saltiness, 54. ailment, 55. opportune, 56. recycle

57. toxic by_____cts *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
58. major tr_____ry *n.* a stream or river that flows into a larger one
59. di_____ve the sugar *v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
60. ceramic j_g *n.* a container with a handle and spout used for pouring liquids, typically made of ceramics, glass, or metal; (verb) to cook something slowly in a covered container
61. reg_____te bone tissue *v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
62. ur_____ne foam *n.* a synthetic organic compound used as a monomer to manufacture flexible and rigid polyurethane foams, adhesives, and coatings

ANSWERS: 57. byproduct, 58. tributary, 59. dissolve, 60. jug, 61. regenerate, 62. urethane

Session 3: Fill in the Blanks

1. The organization works to _____ drug addicts and help them rebuild their lives.
 - v. to restore to good health or physical condition; to help someone return to a normal life, especially after a period of illness, addiction, or imprisonment
2. This material can _____ moisture swiftly.
 - v. to force an attack or attacker to withdraw or retreat
3. 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
4. The desert is known for its _____ climate and lack of rainfall.
 - adj. lacking in moisture or rainfall; dry and barren; lacking in interest, life, or vitality
5. The project's success largely depends on the _____ weather in the region.
 - adj. relating to a person's temperament or disposition; subject to changes in mood or behavior; unpredictable
6. He _____ the importance of teamwork and struggled to succeed.
 - v. to assign too low a value to something
7. The car's bumper was coated with a _____ layer for extra protection.
 - n. a synthetic organic compound used as a monomer to manufacture flexible and rigid polyurethane foams, adhesives, and coatings

ANSWERS: 1. rehabilitate, 2. repel, 3. byproduct, 4. arid, 5. temperamental, 6. undervalued, 7. urethane

8. She tasted the dish and detected a slight _____.
- n.* the quality or state of being salty
9. He got timely treatment for his physical _____ of severe back pain.
- n.* a slight but often persistent illness
10. The equipment is frequently used to _____ and distribute drinking water.
- v.* to remove harmful substances from something and increase the concentration of it
11. The new CEO's primary mission is to _____ the company on the verge of bankruptcy.
- v.* to improve or renew an area, institution, system, etc., especially by making it more active or successful
12. The _____ river flowed into the main river.
- n.* a stream or river that flows into a larger one
13. I love going for walks in the park during _____.
- n.* the season of the year between winter and summer, typically associated with the blooming of flowers, growth of plants, and milder weather
14. Some research says that a relative decline in teacher salaries is causing labor _____.
- n.* the state of being in short supply; a small and inadequate amount
15. Flooding occurs along the city's _____ due to the storm surge.
- n.* a line that separates land and sea

ANSWERS: 8. saltiness, 9. ailment, 10. purify, 11. regenerate, 12. tributary, 13. springtime, 14. scarcity, 15. shoreline

16. The roots of plants absorb water and nutrients through _____.
- n.* the process by which molecules of a solvent (such as water) move through a semipermeable membrane from a region of higher concentration to a region of lower concentration; the gradual or subtle absorption of knowledge, ideas, or influence from one source to another
17. We strive not to _____ the environment when demolishing petroleum plants.
- v.* to make something impure, unclean, or poisonous by contact or mixture
18. 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
19. The _____ levels in the ocean have been increasing due to climate change.
- n.* the presence or amount of salt in a substance, especially in water or soil; the measure of the concentration of dissolved salts in a liquid
20. The superhero wore a flowing _____ as part of their costume.
- n.* a type of long, loose outer garment that covers the back, shoulders, and arms; a headland or promontory extending into the sea or other large body of water
21. We largely _____ the circuit board of cell phones because they contain a lot of valuable metals.
- v.* to sort and collect things to process them and produce valuable materials that can be used again
22. He was known to be very _____ and would often work late into the night.
- adj.* hardworking, diligent, and persistent in effort
23. I need to _____ my car before I can drive safely on the icy roads.
- v.* to remove ice from a surface, especially from a vehicle or aircraft, using a chemical or mechanical means

ANSWERS: 16. osmosis, 17. contaminate, 18. Gulf, 19. salinity, 20. cape, 21. recycle, 22. industrious, 23. deice

24. _____ is an important raw material for plastics, other synthetic resins, and petrochemicals.
- n.* a chemical compound that is a colorless and flammable gas obtained by cracking petroleum, especially used for making polymers
25. He leaned against the _____ waiting for her to come home.
- n.* an opening in a wall for a door to fit into
26. The phone rang at the most _____ time.
- adj.* suitable or happening at a time that is suitable or convenient for a particular purpose
27. The _____ solution is used to neutralize acidic spills in laboratories.
- n.* a soluble base or hydroxide that has a pH greater than 7, is bitter in taste, and can be corrosive or caustic in high concentration, often used in industry for cleaning, neutralization, or manufacturing processes
28. The political party _____ after much internal fighting.
- v.* to be or cause to be absorbed by a liquid to form a part of the solution; to close down or dismiss
29. We use an _____ coating to protect the concrete floor from damage.
- n.* a type of adhesive or resin that is created by combining two components, a resin, and a hardener; (verb) to glue or bind together with a type of synthetic resin known as epoxy, often used in construction, manufacturing, and repair projects
30. She filled the ____ with ice-cold water from the fridge.
- n.* a container with a handle and spout used for pouring liquids, typically made of ceramics, glass, or metal; (verb) to cook something slowly in a covered container

ANSWERS: 24. Propylene, 25. doorway, 26. opportune, 27. alkali, 28. dissolved, 29. epoxy, 30. jug

31. The soil needs to be _____ so water can easily drain through it.

adj. capable of being penetrated, passed through, or absorbed; allowing liquids, gases, or other substances to pass through a surface or material, often with ease

ANSWERS: 31. permeable