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Skylar Tibbits: A new way to "grow" islands and coastlines | TED Talk

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

Advanced Words Only

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Session 1: Word List

auxetic

adj. having the property of becoming wider or thicker when stretched, as opposed to most materials which become thinner

synonym : expanding, dilating, stretching

(1) **auxetic** fabric, (2) **auxetic** behavior

The design of **auxetic** structures can improve shock absorption and impact resistance.

porous

adj. having many small holes and being able to absorb or pass through fluids

synonym : permeable, spongy, absorbent

(1) **porous** materials, (2) **porous** membrane

Our unfenced and largely unpoliced border inevitably has been very **porous** for insurgents.

inflate

v. to fill something with air or gas so that it becomes bigger and rounder

synonym : blow up, expand, puff up

(1) **inflate** a tire, (2) **inflate** expense reports

She **inflated** the balloons for the party.

morph

v. to change or cause to change something or someone smoothly and gradually from one thing to another

synonym : alter, modify, transform

(1) **morph** into a different shape, (2) **morph** into something entirely different

This company **morphed** into an enterprise company.

airspace

n. the designated area above the surface of the earth where aircraft are allowed to fly, regulated by government authorities; the portion of the atmosphere above a particular location that is controlled by a specific country or organization

synonym : sky, zone, area

(1) **airspace** violation, (2) **airspace** restrictions

The airplane entered restricted **airspace** and had to be escorted by fighter jets.

helium

n. a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table

synonym : He, light gas, noble gas

(1) **helium** atom, (2) **helium** gas

The **helium-filled** balloons floated into the sky.

resilient

adj. able to withstand or recover quickly from difficult conditions

synonym : robust, sturdy, tough

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

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

human-made

adj. created or produced by humans; artificial

synonym : artificial, unnatural, manufactured

(1) **human-made** climate change, (2) the worst **human-made** disaster

The bridge is a **human-made** structure and was built to span the river.

dredge

v. to remove debris or objects from a body of water or other areas by scooping or dragging, often using special equipment called a dredge; to bring something to the surface by this process

synonym : dig, scoop, unearth

(1) **dredge** up memories, (2) **dredge** a river

The environmental group demanded that the government stop the plans to **dredge** the wetlands for oil drilling.

addict

n. a person who cannot stop using or doing something as a habit, especially something harmful

synonym : devotee, buff, freak

(1) a drug **addict**, (2) Internet **addict**

We have become TV **addicts** due to video streaming services.

sandbar

n. an extended raised area of sand beneath the surface of the water, typically generated by moving currents, especially where a river enters the sea

synonym : shoal, mudbank, shallow

(1) **sandbar** migration, (2) camp on a **sandbar** along the river

At last, we came across a tiny **sandbar** just barely above the sea.

topography

n. the arrangement and physical features of a particular area or region, including its natural and artificial elements and their relative positions and elevations; the study or description of this arrangement and these features

synonym : terrain, landscape, geography

(1) **topography** map, (2) detailed **topography**

The **topography** of the region is rugged, with many hills and valleys.

turbulence

n. a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or

behavior, such as air turbulence during a flight

synonym: choppiness, tumult, agitation

(1) financial **turbulence**, (2) emotional **turbulence**

The ride on the rollercoaster was full of dips and turns, creating a feeling of **turbulence**.

fabricate

v. to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone

synonym: manufacture, assemble, falsify

(1) **fabricate** a chemical, (2) **fabricate** an excuse

The detective discovered that the witness had **fabricated** her story about the crime.

biodegrade

v. to decay naturally by microorganisms, such as bacteria and fungi

(1) **biodegrade** by the microorganism, (2) bioplastic designed to **biodegrade**

The company's plastic products are easily **biodegraded** thanks to a unique manufacturing process.

sew

v. to join, fasten, or repair two pieces of something by putting the thread through them with a needle

synonym: stitch, darn, tailor

(1) **sew** with thread, (2) **sew** a button

My mother taught me how to **sew**.

sunburn

n. a painful reddening of the skin caused by overexposure to the sun's ultraviolet rays

synonym: burn, tan, redness

(1) get a **sunburn**, (2) **sunburn** cream

I forgot to put on sunscreen, and now I have a painful **sunburn** on my back.

stingray

n. a marine fish with a flattened diamond-shaped body, a long tail bearing venomous spines, and large pectoral

fins that are used for swimming

synonym : sting fish

(1) **stingray** habitat, (2) blue-spotted **stingray**

The tour guide warned us not to step on a hidden **stingray** in the shallow water.

ripple

n. a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind

synonym : wave, undulation, fluctuation

(1) a **ripple** of laughter, (2) **ripple** in the water

Many businesses felt the **ripple** effect of the economy's decline.

bathymetry

n. the study or measurement of the depth and topography of underwater areas, particularly the ocean floor

synonym : oceanography, hydrography

(1) high-resolution **bathymetry**, (2) **bathymetry** data

The **bathymetry** of the ocean floor can help scientists understand underwater topography.

submersible

adj. able to be operated or used underwater; capable of being submerged in water or other liquid

synonym : submarine, underwater, submerged

(1) **submersible** pump, (2) **submersible** cable

The **submersible** vehicle can explore the depths of the ocean.

adaptable

adj. able or willing to modify or be modified to deal with new situations

synonym : flexible, adjustable, elastic

(1) **adaptable** enough for the environment, (2) an **adaptable** person

We seek a candidate who possesses **adaptable** fighting potential.

Session 2: Spelling

1. au____c behavior *adj.* having the property of becoming wider or thicker when stretched, as opposed to most materials which become thinner
2. a drug ad____t *n.* a person who cannot stop using or doing something as a habit, especially something harmful
3. the worst hum____de disaster *adj.* created or produced by humans; artificial
4. mo__h into a different shape *v.* to change or cause to change something or someone smoothly and gradually from one thing to another
5. s_w a button *v.* to join, fasten, or repair two pieces of something by putting the thread through them with a needle
6. re____nt population *adj.* able to withstand or recover quickly from difficult conditions
7. sub____le cable *adj.* able to be operated or used underwater; capable of being submerged in water or other liquid
8. high-resolution bat____ry *n.* the study or measurement of the depth and topography of underwater areas, particularly the ocean floor
9. ai____ce violation *n.* the designated area above the surface of the earth where aircraft are allowed to fly, regulated by government authorities; the portion of the atmosphere above a particular location that is controlled by a specific country or organization

ANSWERS: 1. auxetic, 2. addict, 3. human-made, 4. morph, 5. sew, 6. resilient, 7. submersible, 8. bathymetry, 9. airspace

10. fa_____te a chemical *v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
11. he____m gas *n.* a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table
12. bioplastic designed to bio_____de *v.* to decay naturally by microorganisms, such as bacteria and fungi
13. po____s materials *adj.* having many small holes and being able to absorb or pass through fluids
14. in_____e expense reports *v.* to fill something with air or gas so that it becomes bigger and rounder
15. ri____e in the water *n.* a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
16. detailed top_____hy *n.* the arrangement and physical features of a particular area or region, including its natural and artificial elements and their relative positions and elevations; the study or description of this arrangement and these features
17. camp on a sa_____r along the river *n.* an extended raised area of sand beneath the surface of the water, typically generated by moving currents, especially where a river enters the sea
18. st_____ay habitat *n.* a marine fish with a flattened diamond-shaped body, a long tail bearing venomous spines, and large pectoral fins that are used for swimming

ANSWERS: 10. fabricate, 11. helium, 12. biodegrade, 13. porous, 14. inflate, 15. ripple, 16. topography, 17. sandbar, 18. stingray

19. Internet ad___t *n.* a person who cannot stop using or doing something as a habit, especially something harmful
20. dr___e a river *v.* to remove debris or objects from a body of water or other areas by scooping or dragging, often using special equipment called a dredge; to bring something to the surface by this process
21. fa_____te an excuse *v.* to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
22. an ad_____le person *adj.* able or willing to modify or be modified to deal with new situations
23. dr___e up memories *v.* to remove debris or objects from a body of water or other areas by scooping or dragging, often using special equipment called a dredge; to bring something to the surface by this process
24. ai_____ce restrictions *n.* the designated area above the surface of the earth where aircraft are allowed to fly, regulated by government authorities; the portion of the atmosphere above a particular location that is controlled by a specific country or organization
25. he___m atom *n.* a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table

ANSWERS: 19. addict, 20. dredge, 21. fabricate, 22. adaptable, 23. dredge, 24. airspace, 25. helium

26. s_w with thread *v.* to join, fasten, or repair two pieces of something by putting the thread through them with a needle
27. su_____n cream *n.* a painful reddening of the skin caused by overexposure to the sun's ultraviolet rays
28. hum_____de climate change *adj.* created or produced by humans; artificial
29. au_____c fabric *adj.* having the property of becoming wider or thicker when stretched, as opposed to most materials which become thinner
30. a hard and re_____nt steel *adj.* able to withstand or recover quickly from difficult conditions
31. mo__h into something entirely different *v.* to change or cause to change something or someone smoothly and gradually from one thing to another
32. bio_____de by the microorganism *v.* to decay naturally by microorganisms, such as bacteria and fungi
33. a ri___e of laughter *n.* a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind
34. sa_____r migration *n.* an extended raised area of sand beneath the surface of the water, typically generated by moving currents, especially where a river enters the sea
35. top_____hy map *n.* the arrangement and physical features of a particular area or region, including its natural and artificial elements and their relative positions and elevations; the study or description of this arrangement and these features

ANSWERS: 26. sew, 27. sunburn, 28. human-made, 29. auxetic, 30. resilient, 31. morph, 32. biodegrade, 33. ripple, 34. sandbar, 35. topography

36. po___s membrane *adj.* having many small holes and being able to absorb or pass through fluids
37. emotional tur_____ce *n.* a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight
38. financial tur_____ce *n.* a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight
39. blue-spotted st_____ay *n.* a marine fish with a flattened diamond-shaped body, a long tail bearing venomous spines, and large pectoral fins that are used for swimming
40. in_____e a tire *v.* to fill something with air or gas so that it becomes bigger and rounder
41. sub_____le pump *adj.* able to be operated or used underwater; capable of being submerged in water or other liquid
42. get a su_____n *n.* a painful reddening of the skin caused by overexposure to the sun's ultraviolet rays
43. ad_____le enough for the environment *adj.* able or willing to modify or be modified to deal with new situations
44. bat_____ry data *n.* the study or measurement of the depth and topography of underwater areas, particularly the ocean floor

ANSWERS: 36. porous, 37. turbulence, 38. turbulence, 39. stingray, 40. inflate, 41. submersible, 42. sunburn, 43. adaptable, 44. bathymetry

Session 3: Fill in the Blanks

1. The ride on the rollercoaster was full of dips and turns, creating a feeling of _____.
n. a state of great disturbance, confusion, or uncertainty, often accompanied by violent or disruptive activity or behavior, such as air turbulence during a flight
2. The airplane entered restricted _____ and had to be escorted by fighter jets.
n. the designated area above the surface of the earth where aircraft are allowed to fly, regulated by government authorities; the portion of the atmosphere above a particular location that is controlled by a specific country or organization
3. I forgot to put on sunscreen, and now I have a painful _____ on my back.
n. a painful reddening of the skin caused by overexposure to the sun's ultraviolet rays
4. The _____ balloons floated into the sky.
n. a colorless, odorless, tasteless, non-toxic, inert, monatomic gas, the first in the noble gas series in the periodic table
5. Our unfenced and largely unpoliced border inevitably has been very _____ for insurgents.
adj. having many small holes and being able to absorb or pass through fluids
6. At last, we came across a tiny _____ just barely above the sea.
n. an extended raised area of sand beneath the surface of the water, typically generated by moving currents, especially where a river enters the sea
7. The _____ vehicle can explore the depths of the ocean.
adj. able to be operated or used underwater; capable of being submerged in water or other liquid

ANSWERS: 1. turbulence, 2. airspace, 3. sunburn, 4. helium-filled, 5. porous, 6. sandbar, 7. submersible

8. My mother taught me how to ____.
- v. to join, fasten, or repair two pieces of something by putting the thread through them with a needle
9. This company _____ into an enterprise company.
- v. to change or cause to change something or someone smoothly and gradually from one thing to another
10. The company's plastic products are easily _____ thanks to a unique manufacturing process.
- v. to decay naturally by microorganisms, such as bacteria and fungi
11. The environmental group demanded that the government stop the plans to _____ the wetlands for oil drilling.
- v. to remove debris or objects from a body of water or other areas by scooping or dragging, often using special equipment called a dredge; to bring something to the surface by this process
12. The detective discovered that the witness had _____ her story about the crime.
- v. to make something, especially by assembling parts or constructing it from raw materials; to invent and present something false as true or real to deceive someone
13. The _____ of the ocean floor can help scientists understand underwater topography.
- n. the study or measurement of the depth and topography of underwater areas, particularly the ocean floor
14. The bridge is a _____ structure and was built to span the river.
- adj. created or produced by humans; artificial

ANSWERS: 8. sew, 9. morphed, 10. biodegraded, 11. dredge, 12. fabricated, 13. bathymetry, 14. human-made

15. The design of _____ structures can improve shock absorption and impact resistance.

adj. having the property of becoming wider or thicker when stretched, as opposed to most materials which become thinner

16. The tour guide warned us not to step on a hidden _____ in the shallow water.

n. a marine fish with a flattened diamond-shaped body, a long tail bearing venomous spines, and large pectoral fins that are used for swimming

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

adj. able to withstand or recover quickly from difficult conditions

18. We have become TV _____ due to video streaming services.

n. a person who cannot stop using or doing something as a habit, especially something harmful

19. She _____ the balloons for the party.

v. to fill something with air or gas so that it becomes bigger and rounder

20. Many businesses felt the _____ effect of the economy's decline.

n. a small wave on the surface of a liquid, typically caused by an object falling into it or a slight wind

21. The _____ of the region is rugged, with many hills and valleys.

n. the arrangement and physical features of a particular area or region, including its natural and artificial elements and their relative positions and elevations; the study or description of this arrangement and these features

22. We seek a candidate who possesses _____ fighting potential.

adj. able or willing to modify or be modified to deal with new situations

ANSWERS: 15. auxetic, 16. stingray, 17. resilient, 18. addicts, 19. inflated, 20. ripple, 21. topography, 22. adaptable

ANSWERS: