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Li Wei Tan: The fascinating science of bubbles, from soap to champagne | TED Talk

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

Advanced Words Only

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Session 1: Word List

seine

n. a large fishing net that hangs vertically in the water with floats at the top and weights at the bottom used to enclose and catch fish

synonym : net, fishing net, trawl

(1) haul a **seine**, (2) beach **seine**

The fishermen used a purse **seine** to catch fish in the river.

riverbank

n. the land along the edge of a river, often used for recreation or agricultural purposes

synonym : riverside, embankment

(1) **riverbank** erosion, (2) walk along the **riverbank**

We enjoyed a picnic on the **riverbank** and watched the boats go by.

microscopic

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

synonym : infinitesimal, tiny, atomic

(1) **microscopic** inquiry, (2) **microscopic** analysis

Inspectors noticed **microscopic** cracks in the submarine's hull.

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.

inward

adj. directed or facing towards the inside; inside or inward-looking

synonym: internal, introspective, interior

(1) **inward** peace, (2) **inward** cargo

The **inward** motion of the tide was gradually slowing down.

hemisphere

n. half of the terrestrial globe; half of a sphere

(1) northern **hemisphere**, (2) cerebral **hemisphere**

This weather pattern is unique to the southern **hemisphere**.

elasticity

n. the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change

synonym: flexibility, pliability, suppleness

(1) **elasticity** coefficient, (2) skin **elasticity**

The **elasticity** of the rubber band allowed it to stretch without breaking.

relentless

adj. persistent and determined; continuing despite difficulties or setbacks

synonym: unyielding, tireless, unremitting

(1) **relentless** attack, (2) face **relentless** pressure

The athlete's **relentless** training paid off in the end.

penguin

n. a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait

(1) Adelie **penguin**, (2) **penguin** habitat

We took a boat tour to witness the magnificent **penguin** colony along the rugged coastline.

cove

n. a small sheltered bay or inlet, typically rocky and steep-sided; a small strip of land jutting into the sea

synonym : inlet, bay, indentation

(1) **cove** beach, (2) rocky **cove**

The kayakers paddled into the little **cove** to explore its hidden beauty.

ingenious

adj. showing inventiveness and ability or skill

synonym : creative, innovative, inventive

(1) **ingenious** device, (2) **ingenious** idea

I always look forward to reading his stories since they're so **ingenious**.

emperor

n. the male ruler of an empire

synonym : ruler, king, dictator

(1) **emperor** of Rome, (2) former **emperor**

The **Emperor** once lived in the vast palace.

lubricate

v. to apply a substance, such as oil or grease, to reduce friction or wear on a surface

synonym : grease, oil, make slippery

(1) **lubricate** the economy, (2) **lubricate** the hinges with oil

The mechanic **lubricated** the gears to prevent them from grinding.

medicinal

adj. of or relating to the treatment or cure of disease

synonym : curative, therapeutic, healing

(1) **medicinal** chemistry, (2) traditional **medicinal**

The **medicinal** properties of this herb have been known to help with various ailments.

inject

v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)

synonym : shoot, infiltrate, insinuate

(1) **inject** under the skin, (2) **inject** a personal opinion into a debate

Let's try to **inject** a bit of enthusiasm into your performance.

bloodstream

n. the blood flowing through the body

(1) **bloodstream** in an artery, (2) **bloodstream** to the brain
Cancer cells are often carried throughout the body by the **bloodstream**.

photovoltaics

n. a branch of technology that involves the conversion of sunlight into electricity using solar cells or other photoelectric devices; the generation of electricity directly from sunlight, typically using solar panels

synonym: solar cells, solar power

(1) **photovoltaics** recycling initiatives, (2) **photovoltaics** system

The development of thin-film **photovoltaics** has allowed for a wider range of applications in building design.

emit

v. to give off or send out something such as light, heat, sound, gas, etc.

synonym: give off, radiate, expel

(1) **emit** a gamma ray, (2) **emit** air pollution

During the unloading, the container box **emits** a clicking sound.

diode

n. an electronic component that conducts current primarily in one direction and typically has two electrodes or terminals

synonym: rectifier, valve, semiconductor

(1) light-emitting **diode**, (2) semiconductor **diode**

The **diode** in the circuit prevented the current from flowing in the wrong direction.

unavoidable

adj. impossible to avoid or evade; inevitable

synonym: inevitable, inescapable, certain

(1) an **unavoidable** accident, (2) under **unavoidable** circumstances

There are now fears that war is **unavoidable**.

micron

n. a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

synonym : micrometer

(1) **micron** measurements, (2) **micron** imaging

The width of a single human hair is around 100 **microns**.

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.

smartphone

n. a mobile phone that functions as a computer and connects to the Internet

(1) **smartphone** app developer, (2) **smartphone** addict

Internet traffic volumes have increased significantly with the advent of **smartphones**.

aroma

n. a distinctive, usually pleasant smell, often of a specific food, plant, or object

synonym : fragrance, scent, smell

(1) **aroma** therapy, (2) coffee **aroma**

The **aroma** of freshly baked bread filled the kitchen.

intensify

v. to increase or make something increase in extent or strength

synonym : amplify, boost, strengthen

(1) **intensify** diplomatic efforts, (2) **intensify** a good relationship

Rebels have pledged to **intensify** the armed struggle against the dictatorship.

Session 2: Spelling

1. in___t under the skin *v.* to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
2. northern hem_____re *n.* half of the terrestrial globe; half of a sphere
3. rocky c___e *n.* a small sheltered bay or inlet, typically rocky and steep-sided; a small strip of land jutting into the sea
4. in___d peace *adj.* directed or facing towards the inside; inside or inward-looking
5. dr_____t size *n.* a small drop of liquid
6. mi___n measurements *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
7. mic_____ic analysis *adj.* tiny; exceedingly precise and detail-oriented; of or used in microscopy
8. in_____fy diplomatic efforts *v.* to increase or make something increase in extent or strength
9. pe_____n habitat *n.* a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait
10. em_____r of Rome *n.* the male ruler of an empire

ANSWERS: 1. inject, 2. hemisphere, 3. cove, 4. inward, 5. droplet, 6. micron, 7. microscopic, 8. intensify, 9. penguin, 10. emperor

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|---|--|
| 11. light-emitting di__e | <i>n.</i> an electronic component that conducts current primarily in one direction and typically has two electrodes or terminals |
| 12. traditional me_____al | <i>adj.</i> of or relating to the treatment or cure of disease |
| 13. skin ela_____ty | <i>n.</i> the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change |
| 14. lu_____te the economy | <i>v.</i> to apply a substance, such as oil or grease, to reduce friction or wear on a surface |
| 15. in_____fy a good relationship | <i>v.</i> to increase or make something increase in extent or strength |
| 16. things at the na_____le | <i>adj.</i> on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale |
| 17. in___t a personal opinion into a debate | <i>v.</i> to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube) |
| 18. in___d cargo | <i>adj.</i> directed or facing towards the inside; inside or inward-looking |
| 19. coffee ar__a | <i>n.</i> a distinctive, usually pleasant smell, often of a specific food, plant, or object |
| 20. sma_____ne addict | <i>n.</i> a mobile phone that functions as a computer and connects to the Internet |
| 21. ela_____ty coefficient | <i>n.</i> the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change |

ANSWERS: 11. diode, 12. medicinal, 13. elasticity, 14. lubricate, 15. intensify, 16. nanoscale, 17. inject, 18. inward, 19. aroma, 20. smartphone, 21. elasticity

22. lu_____te the hinges with oil *v.* to apply a substance, such as oil or grease, to reduce friction or wear on a surface
23. under una_____le circumstances *adj.* impossible to avoid or evade; inevitable
24. pho_____ics recycling initiatives *n.* a branch of technology that involves the conversion of sunlight into electricity using solar cells or other photoelectric devices; the generation of electricity directly from sunlight, typically using solar panels
25. pho_____ics system *n.* a branch of technology that involves the conversion of sunlight into electricity using solar cells or other photoelectric devices; the generation of electricity directly from sunlight, typically using solar panels
26. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
27. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
28. semiconductor di__e *n.* an electronic component that conducts current primarily in one direction and typically has two electrodes or terminals
29. former em_____r *n.* the male ruler of an empire
30. face rel_____ss pressure *adj.* persistent and determined; continuing despite difficulties or setbacks
31. mi____n imaging *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms

ANSWERS: 22. lubricate, 23. unavoidable, 24. photovoltaics, 25. photovoltaics, 26. medicinal, 27. smartphone, 28. diode, 29. emperor, 30. relentless, 31. micron

32. ar__a therapy *n.* a distinctive, usually pleasant smell, often of a specific food, plant, or object
33. haul a se__e *n.* a large fishing net that hangs vertically in the water with floats at the top and weights at the bottom used to enclose and catch fish
34. rel_____ss attack *adj.* persistent and determined; continuing despite difficulties or setbacks
35. blo_____am to the brain *n.* the blood flowing through the body
36. in_____us device *adj.* showing inventiveness and ability or skill
37. in_____us idea *adj.* showing inventiveness and ability or skill
38. c__e beach *n.* a small sheltered bay or inlet, typically rocky and steep-sided; a small strip of land jutting into the sea
39. cerebral hem_____re *n.* half of the terrestrial globe; half of a sphere
40. dr_____t formation *n.* a small drop of liquid
41. blo_____am in an artery *n.* the blood flowing through the body
42. an una_____le accident *adj.* impossible to avoid or evade; inevitable
43. ri_____nk erosion *n.* the land along the edge of a river, often used for recreation or agricultural purposes
44. e__t air pollution *v.* to give off or send out something such as light, heat, sound, gas, etc.
45. e__t a gamma ray *v.* to give off or send out something such as light, heat, sound, gas, etc.

ANSWERS: 32. aroma, 33. seine, 34. relentless, 35. bloodstream, 36. ingenious, 37. ingenious, 38. cove, 39. hemisphere, 40. droplet, 41. bloodstream, 42. unavoidable, 43. riverbank, 44. emit, 45. emit

46. walk along the ri_____nk
n. the land along the edge of a river, often used for recreation or agricultural purposes
47. na_____le device
adj. on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
48. mic_____ic inquiry
adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy
49. beach se__e
n. a large fishing net that hangs vertically in the water with floats at the top and weights at the bottom used to enclose and catch fish
50. Adelic pe_____n
n. a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait

ANSWERS: 46. riverbank, 47. nanoscale, 48. microscopic, 49. seine, 50. penguin

Session 3: Fill in the Blanks

1. The _____ of freshly baked bread filled the kitchen.
n. a distinctive, usually pleasant smell, often of a specific food, plant, or object
2. The fishermen used a purse _____ to catch fish in the river.
n. a large fishing net that hangs vertically in the water with floats at the top and weights at the bottom used to enclose and catch fish
3. The kayakers paddled into the little _____ to explore its hidden beauty.
n. a small sheltered bay or inlet, typically rocky and steep-sided; a small strip of land jutting into the sea
4. Cancer cells are often carried throughout the body by the _____.
n. the blood flowing through the body
5. Let's try to _____ a bit of enthusiasm into your performance.
v. to put a liquid such as a drug or other substance into a person's or an animal's body using a needle and syringe (= small tube)
6. I always look forward to reading his stories since they're so _____.
adj. showing inventiveness and ability or skill
7. The width of a single human hair is around 100 _____.
n. a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
8. The _____ of the rubber band allowed it to stretch without breaking.
n. the ability of a material to return to its original shape after being stretched or compressed; flexibility; adaptability to change

ANSWERS: 1. aroma, 2. seine, 3. cove, 4. bloodstream, 5. inject, 6. ingenious, 7. microns, 8. elasticity

9. The development of thin-film _____ has allowed for a wider range of applications in building design.
- n.* a branch of technology that involves the conversion of sunlight into electricity using solar cells or other photoelectric devices; the generation of electricity directly from sunlight, typically using solar panels
10. During the unloading, the container box _____ a clicking sound.
- v.* to give off or send out something such as light, heat, sound, gas, etc.
11. This weather pattern is unique to the southern _____.
- n.* half of the terrestrial globe; half of a sphere
12. We took a boat tour to witness the magnificent _____ colony along the rugged coastline.
- n.* a flightless sea bird that is found in the Southern Hemisphere and is known for its distinctive black and white coloring and its upright, waddling gait
13. The _____ properties of this herb have been known to help with various ailments.
- adj.* of or relating to the treatment or cure of disease
14. Internet traffic volumes have increased significantly with the advent of _____.
- n.* a mobile phone that functions as a computer and connects to the Internet
15. The _____ in the circuit prevented the current from flowing in the wrong direction.
- n.* an electronic component that conducts current primarily in one direction and typically has two electrodes or terminals

ANSWERS: 9. photovoltaics, 10. emits, 11. hemisphere, 12. penguin, 13. medicinal, 14. smartphones, 15. diode

16. Rebels have pledged to _____ the armed struggle against the dictatorship.

v. to increase or make something increase in extent or strength

17. There are now fears that war is _____.

adj. impossible to avoid or evade; inevitable

18. A single _____ of water can reflect the entire world upside down.

n. a small drop of liquid

19. The _____ motion of the tide was gradually slowing down.

adj. directed or facing towards the inside; inside or inward-looking

20. The _____ once lived in the vast palace.

n. the male ruler of an empire

21. 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

22. Inspectors noticed _____ cracks in the submarine's hull.

adj. tiny; exceedingly precise and detail-oriented; of or used in microscopy

23. The athlete's _____ training paid off in the end.

adj. persistent and determined; continuing despite difficulties or setbacks

24. We enjoyed a picnic on the _____ and watched the boats go by.

n. the land along the edge of a river, often used for recreation or agricultural purposes

ANSWERS: 16. intensify, 17. unavoidable, 18. droplet, 19. inward, 20. Emperor, 21. nanoscale, 22. microscopic, 23. relentless, 24. riverbank

25. The mechanic _____ the gears to prevent them from grinding.

- v. to apply a substance, such as oil or grease, to reduce friction or wear on a surface

ANSWERS: 25. lubricated