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George Tulevski: The next step in nanotechnology | TED Talk

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

Advanced Words Only

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Session 1: Word List

sculptor

n. an artist who creates sculptures, three-dimensional objects, or forms

synonym : carver, modeler, artist

(1) **sculptor** studio, (2) renowned **sculptor**

The famous **sculptor** used various tools to carve the marble into the desired shape.

chisel

n. a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior

synonym : gouge, bevel, plane

(1) sharpen **chisel**, (2) **chisel** some money

The archaeologist used a small **chisel** to excavate the ancient artifact.

compel

v. to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

synonym : force, oblige, coerce

(1) **compel** a person to submission, (2) **compel** attention

The strict deadlines will **compel** the team to work efficiently.

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.

nanoparticle

n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter

(1) aluminum **nanoparticle**, (2) atmospheric **nanoparticle**

For some creatures, carbon **nanoparticles** are deadly.

confer

v. to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something

synonym: consult, meet, discuss

(1) **confer** degree, (2) **confer** honor

The leaders of the two countries met to **confer** on the issue.

toolkit

n. a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal

synonym: tool set, equipment, utility kit

(1) handy **toolkit**, (2) digital **toolkit**

The DIY **toolkit** includes a variety of power and hand tools for home repair.

empower

v. to give someone the power or authority to do something

synonym: authorize, endow, entitle

(1) **empower** my life, (2) **empower** the secretary to do the same

The company **empowered** employees to buy low-price items without approval to achieve efficient purchasing.

blazing

adj. burning and emitting intense heat and light; powerful and impressive

synonym: burning, fiery, scorching

(1) **blazing** fury, (2) **blazing** fire

The **blazing** sun beat down on the desert.

nanotube

n. a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science

(1) **nanotube** technology, (2) metallic **nanotube**

Carbon **nanotubes** are used in various fields of science and technology due to their unique properties.

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.

double-edged

adj. having two sharp edges or sides, especially one that can harm or benefit in equal measure; (of sword or blade) having two cutting edges

synonym: two-sided, ambivalent, ambiguous

(1) a **double-edged** compliment, (2) **double-edged** tool

The **double-edged** sword could be used for both offense and defense.

indefinitely

adv. without any fixed or definite limit; for an unknown or unspecified period of time

synonym: endlessly, permanently, perpetually

(1) postpone a meeting **indefinitely**, (2) **indefinitely** suspended

The construction project has been delayed **indefinitely** due to the pandemic.

convergent

adj. tending to come together or meet at a point; merging or intersecting; characterized by similarities or commonalities, particularly in different fields or areas of knowledge

synonym: merging, meeting

(1) **convergent** beam, (2) **convergent** thinking
The similarities between the two cultures suggest **convergent** evolution.

compress

v. to press or squeeze together to make something take up less space

synonym: condense, constrict, squeeze

(1) **compress** the chest, (2) **compress** gas

She **compressed** the files into a single ZIP archive to save space on her computer.

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**.

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.

recognizable

adj. easy to become aware of or identify

synonym: noticeable, perceptible, definite

(1) to a **recognizable** degree, (2) **recognizable** landmark

His car was easily **recognizable** in the parking lot.

innovate

v. to introduce new methods, ideas, or products

synonym: bring in, introduce, found

(1) **innovate** a new method, (2) **innovate** the quality of his life

Companies developing self-driving cars consistently **innovate** the emerging technologies.

conundrum

n. a confusing and difficult problem or question

synonym : puzzle, riddle, enigma

(1) **conundrum** of choice, (2) pose a **conundrum**

The group faced a **conundrum** when they couldn't decide whether to go hiking or to the beach.

undying

adj. (especially of feelings or beliefs) lasting forever

synonym : endless, eternal, immortal

(1) his **undying** fame, (2) swear **undying** devotion to her

He pledged his **undying** love for his wife.

godfather

n. a male godparent who witnesses a child's baptism and accepts a spiritual responsibility for their upbringing; a trusted mentor or advisor who has significant influence and offers support and guidance in personal or professional matters

synonym : sponsor, mentor, protector

(1) political **godfather**, (2) be my **godfather** at my christening

The wealthy businessman acted as a **godfather** to his protege, helping him to succeed in his career.

betray

v. to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally

synonym : fail, denounce, display

(1) **betray** a friend, (2) **betray** confidence

He felt **betrayed** when his best friend revealed their secret to the enemy.

pluck

v. to pull or draw something, especially with sudden force or effort; to strip of feathers

synonym : grab, pull out, pick

(1) **pluck** a gray hair, (2) **pluck** out weeds

She **plucked** the flowers off the bush.

steer

v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

synonym : guide, direct, control

(1) **steer** a steady course, (2) **steer** a conversation

The captain told him to **steer** the ship north.

Session 2: Spelling

- | | |
|-------------------------------------|---|
| 1. bl____g fury | <i>adj.</i> burning and emitting intense heat and light; powerful and impressive |
| 2. postpone a meeting ind____ely | <i>adv.</i> without any fixed or definite limit; for an unknown or unspecified period of time |
| 3. in____te the quality of his life | <i>v.</i> to introduce new methods, ideas, or products |
| 4. sma____ne addict | <i>n.</i> a mobile phone that functions as a computer and connects to the Internet |
| 5. rec____ble landmark | <i>adj.</i> easy to become aware of or identify |
| 6. co____r degree | <i>v.</i> to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something |
| 7. rel____ss attack | <i>adj.</i> persistent and determined; continuing despite difficulties or setbacks |
| 8. a dou____ged compliment | <i>adj.</i> having two sharp edges or sides, especially one that can harm or benefit in equal measure; (of sword or blade) having two cutting edges |
| 9. co____ss gas | <i>v.</i> to press or squeeze together to make something take up less space |
| 10. bl____g fire | <i>adj.</i> burning and emitting intense heat and light; powerful and impressive |
| 11. political go____er | <i>n.</i> a male godparent who witnesses a child's baptism and accepts a spiritual responsibility for their upbringing; a trusted mentor or advisor who has significant influence and offers support and guidance in personal or professional matters |

ANSWERS: 1. blazing, 2. indefinitely, 3. innovate, 4. smartphone, 5. recognizable, 6. confer, 7. relentless, 8. double-edged, 9. compress, 10. blazing, 11. godfather

12. be my go_____er at my christening *n.* a male godparent who witnesses a child's baptism and accepts a spiritual responsibility for their upbringing; a trusted mentor or advisor who has significant influence and offers support and guidance in personal or professional matters
13. in_____te a new method *v.* to introduce new methods, ideas, or products
14. sc_____or studio *n.* an artist who creates sculptures, three-dimensional objects, or forms
15. con_____nt beam *adj.* tending to come together or meet at a point; merging or intersecting; characterized by similarities or commonalities, particularly in different fields or areas of knowledge
16. handy to_____t *n.* a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal
17. be____y a friend *v.* to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally
18. renowned sc_____or *n.* an artist who creates sculptures, three-dimensional objects, or forms
19. swear un_____g devotion to her *adj.* (especially of feelings or beliefs) lasting forever
20. co____l attention *v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

ANSWERS: 12. godfather, 13. innovate, 14. sculptor, 15. convergent, 16. toolkit, 17. betray, 18. sculptor, 19. undying, 20. compel

21. sharpen ch___l *n.* a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior
22. things at the na_____le *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
23. be___y confidence *v.* to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally
24. sma_____ne app developer *n.* a mobile phone that functions as a computer and connects to the Internet
25. pl__k out weeds *v.* to pull or draw something, especially with sudden force or effort; to strip of feathers
26. metallic na_____be *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
27. atmospheric nan_____cle *n.* a particle of matter that is between 1 and 100 nanometres (nm) in diameter
28. aluminum nan_____cle *n.* a particle of matter that is between 1 and 100 nanometres (nm) in diameter
29. face rel_____ss pressure *adj.* persistent and determined; continuing despite difficulties or setbacks
30. co___l a person to submission *v.* to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

ANSWERS: 21. chisel, 22. nanoscale, 23. betray, 24. smartphone, 25. pluck, 26. nanotube, 27. nanoparticle, 28. nanoparticle, 29. relentless, 30. compel

31. ind_____ely suspended *adv.* without any fixed or definite limit; for an unknown or unspecified period of time
32. to a rec_____ble degree *adj.* easy to become aware of or identify
33. digital to_____t *n.* a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal
34. his un_____g fame *adj.* (especially of feelings or beliefs) lasting forever
35. co_____ss the chest *v.* to press or squeeze together to make something take up less space
36. ch_____l some money *n.* a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior
37. co_____r honor *v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
38. st____r a conversation *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
39. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
40. pose a co_____um *n.* a confusing and difficult problem or question
41. con_____nt thinking *adj.* tending to come together or meet at a point; merging or intersecting; characterized by similarities or commonalities, particularly in different fields or areas of knowledge

ANSWERS: 31. indefinitely, 32. recognizable, 33. toolkit, 34. undying, 35. compress, 36. chisel, 37. confer, 38. steer, 39. nanoscale, 40. conundrum, 41. convergent

42. dou_____ged tool *adj.* having two sharp edges or sides, especially one that can harm or benefit in equal measure; (of sword or blade) having two cutting edges
43. pl__k a gray hair *v.* to pull or draw something, especially with sudden force or effort; to strip of feathers
44. em_____r the secretary to do the same *v.* to give someone the power or authority to do something
45. co_____um of choice *n.* a confusing and difficult problem or question
46. na_____be technology *n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
47. traditional me_____al *adj.* of or relating to the treatment or cure of disease
48. st__r a steady course *v.* to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone
49. me_____al chemistry *adj.* of or relating to the treatment or cure of disease
50. em_____r my life *v.* to give someone the power or authority to do something

ANSWERS: 42. double-edged, 43. pluck, 44. empower, 45. conundrum, 46. nanotube, 47. medicinal, 48. steer, 49. medicinal, 50. empower

Session 3: Fill in the Blanks

1. Companies developing self-driving cars consistently _____ the emerging technologies.
v. to introduce new methods, ideas, or products
2. The athlete's _____ training paid off in the end.
adj. persistent and determined; continuing despite difficulties or setbacks
3. For some creatures, carbon _____ are deadly.
n. a particle of matter that is between 1 and 100 nanometres (nm) in diameter
4. The DIY _____ includes a variety of power and hand tools for home repair.
n. a set of tools, materials, or resources that are designed to be used together for a specific purpose or task; a collection of information or techniques that can be used to address a problem or achieve a goal
5. She _____ the flowers off the bush.
v. to pull or draw something, especially with sudden force or effort; to strip of feathers
6. His car was easily _____ in the parking lot.
adj. easy to become aware of or identify
7. The group faced a _____ when they couldn't decide whether to go hiking or to the beach.
n. a confusing and difficult problem or question
8. The _____ properties of this herb have been known to help with various ailments.
adj. of or relating to the treatment or cure of disease

ANSWERS: 1. innovate, 2. relentless, 3. nanoparticles, 4. toolkit, 5. plucked, 6. recognizable, 7. conundrum, 8. medicinal

9. The famous _____ used various tools to carve the marble into the desired shape.
- n.* an artist who creates sculptures, three-dimensional objects, or forms
10. The archaeologist used a small _____ to excavate the ancient artifact.
- n.* a tool with a sharpened edge at one end used for shaping wood, stone, or metal; (verb) to engage in deceitful behavior
11. He felt _____ when his best friend revealed their secret to the enemy.
- v.* to reveal or deliver to an enemy by treachery or disloyalty; to reveal something unintentionally
12. The _____ sword could be used for both offense and defense.
- adj.* having two sharp edges or sides, especially one that can harm or benefit in equal measure; (of sword or blade) having two cutting edges
13. Carbon _____ are used in various fields of science and technology due to their unique properties.
- n.* a tube-shaped structure that is composed of very small particles, typically with a diameter of a few nanometers; nanotubes are used in a variety of applications, including electronics and materials science
14. The construction project has been delayed _____ due to the pandemic.
- adv.* without any fixed or definite limit; for an unknown or unspecified period of time
15. The leaders of the two countries met to _____ on the issue.
- v.* to have a meeting or discussion to come to a decision or agreement or exchange ideas; to bestow something
16. The similarities between the two cultures suggest _____ evolution.
- adj.* tending to come together or meet at a point; merging or intersecting; characterized by similarities or commonalities, particularly in different fields or areas of knowledge

ANSWERS: 9. sculptor, 10. chisel, 11. betrayed, 12. double-edged, 13. nanotubes, 14. indefinitely, 15. confer, 16. convergent

17. The wealthy businessman acted as a _____ to his protege, helping him to succeed in his career.

n. a male godparent who witnesses a child's baptism and accepts a spiritual responsibility for their upbringing; a trusted mentor or advisor who has significant influence and offers support and guidance in personal or professional matters

18. The _____ sun beat down on the desert.

adj. burning and emitting intense heat and light; powerful and impressive

19. The company _____ employees to buy low-price items without approval to achieve efficient purchasing.

v. to give someone the power or authority to do something

20. Internet traffic volumes have increased significantly with the advent of _____.

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

21. She _____ the files into a single ZIP archive to save space on her computer.

v. to press or squeeze together to make something take up less space

22. The captain told him to _____ the ship north.

v. to control the direction or movement of a vehicle; to direct a course of action; to guide or motivate someone

23. He pledged his _____ love for his wife.

adj. (especially of feelings or beliefs) lasting forever

24. The strict deadlines will _____ the team to work efficiently.

v. to force or require someone to do something; to exert a strong, irresistible force or pressure that makes someone act in a certain way

ANSWERS: 17. godfather, 18. blazing, 19. empowered, 20. smartphones, 21. compressed, 22. steer, 23. undying, 24. compel

25. 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

ANSWERS: 25. nanoscale