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Macinley Butson: How ancient technology inspired my award-winning inventions | TED Talk

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

Advanced Words Only

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Session 1: Word List

gladiator

n. a person who fought in ancient Rome's public contests, typically armed with weapons and wearing armor to entertain audiences

synonym: fighter, warrior, combatant

(1) act like a **gladiator**, (2) the Christian **gladiator**

The **gladiator's** training regimen included physical conditioning, weapons training, and strategy.

colosseum

n. (also "coliseum") a large amphitheater (= an open-air venue used for entertainment, performances, and sports) in Rome whose construction was begun by Vespasian about AD 75 or 80

(1) build a **colosseum** for gladiators, (2) **Colosseum** area
Rome's **Colosseum** gets busy in peak season.

oncology

n. the branch of medicine that deals with the study and treatment of tumors, especially malignancies

synonym: cancer treatment, study of tumors

(1) **oncology** center, (2) modern **oncology** treatment

The pharmaceutical company unveiled its latest breakthrough drug for the **oncology** market.

radiology

n. the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries

synonym : medical imaging, radiography, radioscopy

(1) interventional **radiology**, (2) diagnostic **radiology**

The patient underwent a **radiology** scan to diagnose their medical condition.

inherit

v. to receive money, property, or a title from someone after they have died

synonym : obtain, gain, acquire

(1) **inherit** estate, (2) **inherit** ancestral property

After his death, his sons **inherited** his business.

repurpose

v. to use something again for a different purpose than it was originally intended

synonym : reutilize, recycle, reuse

(1) **repurpose** an old building, (2) **repurpose** a used car

The old barn was **repurposed** into a modern event space.

apron

n. a protective garment covering the front part of the body and tied at the waist, worn while cooking, working, or performing other activities

synonym : forestage, pinafore, cover-up

(1) **apron** strings, (2) wear an **apron**

The chef tied his **apron** around his waist before starting to cook.

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.

samurai

n. a member of the warrior class in feudal Japan, known for their military skills, loyalty, and code of honor, or

bushido

synonym : warrior, fighter, swordsman

(1) **samurai** sword, (2) **samurai** lifestyle

Samurai culture emphasized honor, discipline, and respect for one's superiors.

pangolin

n. a mammal native to Africa and Asia, resembling a scaly anteater and characterized by thick protective scales on its body, which has a long, sticky tongue used for catching ants and termites

synonym : scaly anteater, spiky mammal

(1) endangered **pangolin**, (2) African **pangolin**

In certain cultures, **pangolin** scales are used in traditional medicines.

meticulously

adv. with great attention to detail; thoroughly and carefully

synonym : carefully, attentively, scrupulously

(1) **meticulously** crafted product, (2) **meticulously** executed

She **meticulously** planned every detail of her wedding.

interweave

v. to combine or blend substantive parts or elements; to interlace; to mix or intermingle

synonym : intertwine, intertwist, interlace

(1) **interweave** threads, (2) **interweave** ideas

The author expertly tried to **interweave** the story's plot and characters.

pliers

n. a tool consisting of two metal arms joined at a pivot, used for gripping, bending, or cutting objects

synonym : tongs, pincers, nippers

(1) needle-nose **pliers**, (2) locking **pliers**

John used **pliers** to fix the loose wire on the lamp.

contradict

v. to deny the truth of a statement by stating the opposite; to be in conflict with

synonym :

conflict, oppose, belie

(1) **contradict** each other, (2) **contradict** the principle
The book contains numerous statements that **contradict** previous reports.

overwhelm

v. to defeat someone or something by using a great deal of force; to have a strong emotional effect on somebody

synonym: conquer, crush, dominate

(1) he was **overwhelmed** with gratitude, (2) **overwhelm** opponents by numbers

Too much variety may **overwhelm** and confuse viewers.

ecstatic

adj. feeling or characterized by intense joy, delight, or enthusiasm

synonym: joyful, thrilled, exultant

(1) **ecstatic** joy, (2) **ecstatic** dance

She was **ecstatic** to receive the news that she had won the lottery.

impractical

adj. not sensible or useful for practical purposes; not likely to be effective in achieving an intended outcome

synonym: impracticable, unrealizable, unfeasible

(1) **impractical** idea, (2) **impractical** solution

It is **impractical** to expect everyone to work for free.

calibrate

v. to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance

synonym: adjust, fine-tune

(1) **calibrate** machinery, (2) **calibrate** measurements

It's important to **calibrate** the equipment regularly to ensure accurate results.

pendulum

n. a weight hung from a fixed point used to regulate the movement of a clock or other mechanism

synonym: oscillator, balance, clock

(1) **pendulum** swings, (2) political **pendulum**
The **pendulum** clock was a familiar sight in the old house.

exemplify

v. to serve as a typical example of something
synonym: illustrate, show, demonstrate

(1) **exemplify** the importance, (2) **exemplify** the solution
The example of a successful startup serves to **exemplify** the potential of the industry.

magnify

v. to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
synonym: enlarge, elaborate, intensify

(1) **magnify** the danger, (2) **magnify** the image for display
Terrorists often attempt to **magnify** the economic impact of their acts of destruction.

drip

v. to fall in drops or make it fall in drops; (noun) liquid or moisture that falls in drops
synonym: drop, drizzle, trickle

(1) **drip** liquid, (2) **drip** from the vicious wound
Water is **dripping** from the faucet.

disappoint

v. to fail to meet someone or their hopes or expectations; to make someone feel sad
synonym: sadden, dismay, frustrate

(1) **disappoint** the audience, (2) don't **disappoint** me
She worked very hard not to **disappoint** her boss's expectations.

childlike

adj. resembling or characteristic of a child, particularly in being innocent, trusting, or naive
synonym: innocent, naive, trusting

(1) **childlike** charm, (2) **childlike** innocence
She had a **childlike** wonder and curiosity about the world.

rediscover

v. to discover or find again something that was previously known but lost

synonym: recover, get back, revive

(1) **rediscover** a value, (2) **rediscover** an old truth

The painting was **rediscovered** in an attic and turned out to be a long-lost masterpiece.

Session 2: Spelling

1. African pa_____in
n. a mammal native to Africa and Asia, resembling a scaly anteater and characterized by thick protective scales on its body, which has a long, sticky tongue used for catching ants and termites
2. red_____er an old truth
v. to discover or find again something that was previously known but lost
3. locking pl_____s
n. a tool consisting of two metal arms joined at a pivot, used for gripping, bending, or cutting objects
4. don't dis_____nt me
v. to fail to meet someone or their hopes or expectations; to make someone feel sad
5. imp_____al solution
adj. not sensible or useful for practical purposes; not likely to be effective in achieving an intended outcome
6. ma_____y the danger
v. to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
7. ex_____fy the solution
v. to serve as a typical example of something
8. d__p liquid
v. to fall in drops or make it fall in drops; (noun) liquid or moisture that falls in drops
9. ec_____ic joy
adj. feeling or characterized by intense joy, delight, or enthusiasm

ANSWERS: 1. pangolin, 2. rediscover, 3. pliers, 4. disappoint, 5. impractical, 6. magnify, 7. exemplify, 8. drip, 9. ecstatic

- | | |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. met_____sly executed | <i>adv.</i> with great attention to detail; thoroughly and carefully |
| 11. ap__n strings | <i>n.</i> a protective garment covering the front part of the body and tied at the waist, worn while cooking, working, or performing other activities |
| 12. by_____ct of technology | <i>n.</i> a secondary or incidental product produced in the manufacture or synthesis of something else |
| 13. political pe_____um | <i>n.</i> a weight hung from a fixed point used to regulate the movement of a clock or other mechanism |
| 14. int_____ve threads | <i>v.</i> to combine or blend substantive parts or elements; to interlace; to mix or intermingle |
| 15. con_____ct each other | <i>v.</i> to deny the truth of a statement by stating the opposite; to be in conflict with |
| 16. ch_____ke innocence | <i>adj.</i> resembling or characteristic of a child, particularly in being innocent, trusting, or naive |
| 17. diagnostic ra_____gy | <i>n.</i> the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries |
| 18. wear an ap__n | <i>n.</i> a protective garment covering the front part of the body and tied at the waist, worn while cooking, working, or performing other activities |

ANSWERS: 10. meticulously, 11. apron, 12. byproduct, 13. pendulum, 14. interweave, 15. contradict, 16. childlike, 17. radiology, 18. apron

19. dis_____nt the audience *v.* to fail to meet someone or their hopes or expectations; to make someone feel sad
20. imp_____al idea *adj.* not sensible or useful for practical purposes; not likely to be effective in achieving an intended outcome
21. the Christian gl_____or *n.* a person who fought in ancient Rome's public contests, typically armed with weapons and wearing armor to entertain audiences
22. re_____se an old building *v.* to use something again for a different purpose than it was originally intended
23. build a co_____um for gladiators *n.* (also "coliseum") a large amphitheater (= an open-air venue used for entertainment, performances, and sports) in Rome whose construction was begun by Vespasian about AD 75 or 80
24. on_____gy center *n.* the branch of medicine that deals with the study and treatment of tumors, especially malignancies
25. met_____sly crafted product *adv.* with great attention to detail; thoroughly and carefully
26. act like a gl_____or *n.* a person who fought in ancient Rome's public contests, typically armed with weapons and wearing armor to entertain audiences
27. ca_____te measurements *v.* to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance

ANSWERS: 19. disappoint, 20. impractical, 21. gladiator, 22. repurpose, 23. colosseum, 24. oncology, 25. meticulously, 26. gladiator, 27. calibrate

28. ch_____ke charm *adj.* resembling or characteristic of a child, particularly in being innocent, trusting, or naive
29. in_____t ancestral property *v.* to receive money, property, or a title from someone after they have died
30. pe_____um swings *n.* a weight hung from a fixed point used to regulate the movement of a clock or other mechanism
31. ov_____lm opponents by numbers *v.* to defeat someone or something by using a great deal of force; to have a strong emotional effect on somebody
32. sa_____i lifestyle *n.* a member of the warrior class in feudal Japan, known for their military skills, loyalty, and code of honor, or bushido
33. in_____t estate *v.* to receive money, property, or a title from someone after they have died
34. endangered pa_____in *n.* a mammal native to Africa and Asia, resembling a scaly anteater and characterized by thick protective scales on its body, which has a long, sticky tongue used for catching ants and termites
35. sa_____i sword *n.* a member of the warrior class in feudal Japan, known for their military skills, loyalty, and code of honor, or bushido
36. interventional ra_____gy *n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries

ANSWERS: 28. childlike, 29. inherit, 30. pendulum, 31. overwhelm, 32. samurai, 33. inherit, 34. pangolin, 35. samurai, 36. radiology

37. int_____ve ideas *v.* to combine or blend substantive parts or elements; to interlace; to mix or intermingle
38. ca_____te machinery *v.* to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance
39. Co_____um area *n.* (also "coliseum") a large amphitheater (= an open-air venue used for entertainment, performances, and sports) in Rome whose construction was begun by Vespasian about AD 75 or 80
40. re_____se a used car *v.* to use something again for a different purpose than it was originally intended
41. ma_____y the image for display *v.* to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder
42. d__p from the vicious wound *v.* to fall in drops or make it fall in drops; (noun) liquid or moisture that falls in drops
43. he was ov_____lmed with gratitude *v.* to defeat someone or something by using a great deal of force; to have a strong emotional effect on somebody
44. con_____ct the principle *v.* to deny the truth of a statement by stating the opposite; to be in conflict with
45. needle-nose pl____s *n.* a tool consisting of two metal arms joined at a pivot, used for gripping, bending, or cutting objects

ANSWERS: 37. interweave, 38. calibrate, 39. colosseum, 40. repurpose, 41. magnify, 42. drip, 43. overwhelm, 44. contradict, 45. pliers

46. ec____ic dance *adj.* feeling or characterized by intense joy, delight, or enthusiasm
47. toxic by____cts *n.* a secondary or incidental product produced in the manufacture or synthesis of something else
48. red____er a value *v.* to discover or find again something that was previously known but lost
49. modern on____gy treatment *n.* the branch of medicine that deals with the study and treatment of tumors, especially malignancies
50. ex____fy the importance *v.* to serve as a typical example of something

ANSWERS: 46. ecstatic, 47. byproduct, 48. rediscover, 49. oncology, 50. exemplify

Session 3: Fill in the Blanks

1. After his death, his sons _____ his business.
v. to receive money, property, or a title from someone after they have died
2. The painting was _____ in an attic and turned out to be a long-lost masterpiece.
v. to discover or find again something that was previously known but lost
3. She _____ planned every detail of her wedding.
adv. with great attention to detail; thoroughly and carefully
4. The old barn was _____ into a modern event space.
v. to use something again for a different purpose than it was originally intended
5. She had a _____ wonder and curiosity about the world.
adj. resembling or characteristic of a child, particularly in being innocent, trusting, or naive
6. John used _____ to fix the loose wire on the lamp.
n. a tool consisting of two metal arms joined at a pivot, used for gripping, bending, or cutting objects
7. The pharmaceutical company unveiled its latest breakthrough drug for the _____ market.
n. the branch of medicine that deals with the study and treatment of tumors, especially malignancies
8. She was _____ to receive the news that she had won the lottery.
adj. feeling or characterized by intense joy, delight, or enthusiasm

ANSWERS: 1. inherited, 2. rediscovered, 3. meticulously, 4. repurposed, 5. childlike, 6. pliers, 7. oncology, 8. ecstatic

9. In certain cultures, _____ scales are used in traditional medicines.
- n.* a mammal native to Africa and Asia, resembling a scaly anteater and characterized by thick protective scales on its body, which has a long, sticky tongue used for catching ants and termites
10. Rome's _____ gets busy in peak season.
- n.* (also "coliseum") a large amphitheater (= an open-air venue used for entertainment, performances, and sports) in Rome whose construction was begun by Vespasian about AD 75 or 80
11. The patient underwent a _____ scan to diagnose their medical condition.
- n.* the branch of medicine that uses medical imaging technologies such as X-rays, CT scans, MRIs, and ultrasound to diagnose and treat diseases and injuries
12. Too much variety may _____ and confuse viewers.
- v.* to defeat someone or something by using a great deal of force; to have a strong emotional effect on somebody
13. It is _____ to expect everyone to work for free.
- adj.* not sensible or useful for practical purposes; not likely to be effective in achieving an intended outcome
14. The book contains numerous statements that _____ previous reports.
- v.* to deny the truth of a statement by stating the opposite; to be in conflict with
15. The author expertly tried to _____ the story's plot and characters.
- v.* to combine or blend substantive parts or elements; to interlace; to mix or intermingle
16. Terrorists often attempt to _____ the economic impact of their acts of destruction.
- v.* to make something look bigger than it really is, especially by looking at it through a lens; to make something bigger, stronger, or louder

ANSWERS: 9. pangolin, 10. Colosseum, 11. radiology, 12. overwhelm, 13. impractical, 14. contradict, 15. interweave, 16. magnify

17. 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
18. Water is _____ from the faucet.
- v.* to fall in drops or make it fall in drops; (noun) liquid or moisture that falls in drops
19. The _____ clock was a familiar sight in the old house.
- n.* a weight hung from a fixed point used to regulate the movement of a clock or other mechanism
20. It's important to _____ the equipment regularly to ensure accurate results.
- v.* to measure or adjust something, typically a machine or device, to ensure accurate functioning or to match a standard or desired level of performance
21. The _____ training regimen included physical conditioning, weapons training, and strategy.
- n.* a person who fought in ancient Rome's public contests, typically armed with weapons and wearing armor to entertain audiences
22. The chef tied his _____ around his waist before starting to cook.
- n.* a protective garment covering the front part of the body and tied at the waist, worn while cooking, working, or performing other activities
23. The example of a successful startup serves to _____ the potential of the industry.
- v.* to serve as a typical example of something

ANSWERS: 17. byproduct, 18. dripping, 19. pendulum, 20. calibrate, 21. gladiator's, 22. apron, 23. exemplify

24. She worked very hard not to _____ her boss's expectations.

- v.* to fail to meet someone or their hopes or expectations; to make someone feel sad

25. _____ culture emphasized honor, discipline, and respect for one's superiors.

- n.* a member of the warrior class in feudal Japan, known for their military skills, loyalty, and code of honor, or bushido

ANSWERS: 24. disappoint, 25. Samurai