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Vocabulary Builder Reference from...

Klaus Stadlmann: The world's smallest 3D printer |

TED Talk

https://www.ted.com/talks/klaus_stadlmann_the_world_s_smallest_3d_printer

Advanced Words Only

IMPORTANT

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Session 1: Word List

nerd

n. a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.

synonym: geek, techie, wonk

(1) a computer **nerd**, (2) **nerd** neck

He was, by nature, a cyber **nerd**.

femtosecond

n. a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications

synonym: ten-to-the-minus-fifteenth, quadrillionth of a second

(1) **femtosecond** time scale, (2) **femtosecond** technology

Femtosecond lasers are used in various medical procedures, including eye surgeries.

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.

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**.

improvisation

n. the act of making something up on the spot or creating or performing something without preparation

synonym : spontaneity, ad-lib, extemporization

(1) **improvisation** on stage, (2) jazz **improvisation**

He created a beautiful piece of music using only **improvisation**.

brilliantly

adv. in an intelligent, graceful, or skillful manner; very brightly or effectively

synonym : brightly, radiantly, excellently

(1) **brilliantly** executed, (2) **brilliantly** lit

He played the piano **brilliantly** at the concert.

Session 2: Spelling

1. 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
2. mi____n measurements
n. a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
3. n__d neck
n. a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.
4. bri_____ly lit
adv. in an intelligent, graceful, or skillful manner; very brightly or effectively
5. fem_____nd technology
n. a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications
6. imp_____ion on stage
n. the act of making something up on the spot or creating or performing something without preparation
7. a computer n__d
n. a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.
8. fem_____nd time scale
n. a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications

ANSWERS: 1. nanoscale, 2. micron, 3. nerd, 4. brilliantly, 5. femtosecond, 6. improvisation, 7. nerd, 8. femtosecond

9. mi___n imaging *n.* a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
10. na_____le device *adj.* on a scale that can be measured in nanometres (= one billionth of a meter); on a very small scale
11. bri_____ly executed *adv.* in an intelligent, graceful, or skillful manner; very brightly or effectively
12. jazz imp_____ion *n.* the act of making something up on the spot or creating or performing something without preparation

ANSWERS: 9. micron, 10. nanoscale, 11. brilliantly, 12. improvisation

Session 3: Fill in the Blanks

1. He was, by nature, a cyber _____.
n. a person who is very interested in and knowledgeable about a particular subject such as computers, mathematics, chess, etc.
2. 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
3. He played the piano _____ at the concert.
adv. in an intelligent, graceful, or skillful manner; very brightly or effectively
4. He created a beautiful piece of music using only _____.
n. the act of making something up on the spot or creating or performing something without preparation
5. 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
6. _____ lasers are used in various medical procedures, including eye surgeries.
n. a unit of time that is equal to one quadrillionth of a second (10^{-15} seconds), and femtosecond lasers are used in surgery and other medical applications

ANSWERS: 1. nerd, 2. nanoscale, 3. brilliantly, 4. improvisation, 5. microns, 6. Femtosecond