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Vocabulary Builder Reference from...

Manu Prakash: A 50-cent microscope that folds like origami | TED Talk

https://www.ted.com/talks/manu_prakash_a_50_cent_microscope_that_folds_like_origami

Advanced Words Only

IMPORTANT

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Session 1: Word List

pinnacle

n. the highest point or peak of something, particularly a mountain or a career; the greatest or highest level of achievement or success

synonym : summit, peak, apex

(1) architectural **pinnacle**, (2) reached the **pinnacle**

Climbing to the **pinnacle** of the mountain is a challenge that many outdoor enthusiasts strive to achieve.

bulky

adj. taking up much space or being difficult to move because of its size or weight; large and unwieldy

synonym : large, cumbersome, unwieldy

(1) **bulky** material, (2) **bulky** packaging

The **bulky** furniture made it difficult to move around the small room.

ashram

n. a secluded religious community or retreat center where people practice yoga, meditation, and other spiritual disciplines under the guidance of a teacher or guru

synonym : meditation center, spiritual retreat, monastery

(1) meditation **ashram**, (2) live cloistered away in an **ashram**

Yoga practitioners often retreat to an **ashram** for intensive meditation and study.

fungus

n. a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive

synonym : mold, mildew, yeast

(1) **fungus** infection, (2) symbiotic **fungus**

Certain types of **fungus** can be toxic to humans, causing severe illness if ingested.

polarization

n. the division or separation of something into two opposing or contrasting groups or factions; the condition of being polarized or having poles

synonym : polarity, division, separation

(1) **polarization** effect, (2) dielectric **polarization**

The **polarization** of political views has created a deep divide in the country.

illumination

n. light or source of light; the degree of visibility of your environment

synonym : light, luminosity, brightness

(1) starry **illumination**, (2) indirect **illumination**

The skylight will give adequate **illumination** from above.

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**.

stomp

v. to walk heavily and noisily, often with a rhythmical sound; to dance with a rhythmical step

synonym : trample, tread, dance

(1) **stomp** off to the room, (2) **stomp** on his foot

The children **stomped** their feet in time to the music.

envelop

v. to surround and cover completely; to encase

synonym : wrap, cover, surround

(1) **envelop** the whole world, (2) **envelop** her in a bear hug

The fog **enveloped** the city, making it difficult to see.

mosquito

n. a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria

synonym : insect, bug, flea

(1) **mosquito** bite, (2) **mosquito** repellent

A stagnant water area are breeding ground for **mosquitos**.

inset

n. an object or design that is set into or inserted within another, typically as a decorative or contrasting element

synonym : insert, interjection, addition

(1) **inset** map, (2) **inset** table

The designer added an **inset** border to the image to give it a more polished look.

achromatic

adj. lacking or without color; having no hue or saturation; referring to shades of gray or black and white

synonym : colorless, neutral, uncolored

(1) **achromatic** color, (2) **achromatic** microscope

The scientist used an **achromatic** lens to produce clear and accurate images.

origami

n. the Japanese art or practice of folding paper into decorative shapes and figures

synonym : paper folding, paper art

(1) **origami** paper, (2) **origami** art

I love making **origami** cranes during my free time.

hands-on

adj. actively involved, practical; having hands involved in the doing or making of something

synonym : practical, involved, hands-in

(1) **hands-on** activity, (2) take a **hands-on** approach

The **hands-on** workshop allowed attendees to work with tools and materials, developing their skills in a hands-on environment.

Session 2: Spelling

1. en____p her in a bear hug
v. to surround and cover completely; to encase
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. ach_____ic color
adj. lacking or without color; having no hue or saturation; referring to shades of gray or black and white
4. pol_____ion effect
n. the division or separation of something into two opposing or contrasting groups or factions; the condition of being polarized or having poles
5. dielectric pol_____ion
n. the division or separation of something into two opposing or contrasting groups or factions; the condition of being polarized or having poles
6. mi___n imaging
n. a unit of measurement equal to one-millionth of a meter, used for measuring the size of particles and microorganisms
7. reached the pi_____le
n. the highest point or peak of something, particularly a mountain or a career; the greatest or highest level of achievement or success
8. take a ha_____on approach
adj. actively involved, practical; having hands involved in the doing or making of something

ANSWERS: 1. envelop, 2. micron, 3. achromatic, 4. polarization, 5. polarization, 6. micron, 7. pinnacle, 8. hands-on

9. or____i paper *n.* the Japanese art or practice of folding paper into decorative shapes and figures
10. en____p the whole world *v.* to surround and cover completely; to encase
11. or____i art *n.* the Japanese art or practice of folding paper into decorative shapes and figures
12. indirect ill____ion *n.* light or source of light; the degree of visibility of your environment
13. mo____to bite *n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
14. live cloistered away in an as____m *n.* a secluded religious community or retreat center where people practice yoga, meditation, and other spiritual disciplines under the guidance of a teacher or guru
15. mo____to repellent *n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
16. in__t map *n.* an object or design that is set into or inserted within another, typically as a decorative or contrasting element
17. ha____on activity *adj.* actively involved, practical; having hands involved in the doing or making of something

ANSWERS: 9. origami, 10. envelop, 11. origami, 12. illumination, 13. mosquito, 14. ashram, 15. mosquito, 16. inset, 17. hands-on

18. architectural pi____le *n.* the highest point or peak of something, particularly a mountain or a career; the greatest or highest level of achievement or success
19. st__p off to the room *v.* to walk heavily and noisily, often with a rhythmical sound; to dance with a rhythmical step
20. starry ill_____ion *n.* light or source of light; the degree of visibility of your environment
21. symbiotic fu____s *n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
22. bu__y material *adj.* taking up much space or being difficult to move because of its size or weight; large and unwieldy
23. in__t table *n.* an object or design that is set into or inserted within another, typically as a decorative or contrasting element
24. fu____s infection *n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive
25. bu__y packaging *adj.* taking up much space or being difficult to move because of its size or weight; large and unwieldy
26. ach_____ic microscope *adj.* lacking or without color; having no hue or saturation; referring to shades of gray or black and white

ANSWERS: 18. pinnacle, 19. stomp, 20. illumination, 21. fungus, 22. bulky, 23. inset, 24. fungus, 25. bulky, 26. achromatic

27. meditation as___m

n. a secluded religious community or retreat center where people practice yoga, meditation, and other spiritual disciplines under the guidance of a teacher or guru

28. st__p on his foot

v. to walk heavily and noisily, often with a rhythmical sound; to dance with a rhythmical step

ANSWERS: 27. ashram, 28. stomp

Session 3: Fill in the Blanks

1. Certain types of _____ can be toxic to humans, causing severe illness if ingested.
 - n.* a type of organism that includes yeasts, molds, and mushrooms, which are heterotrophic, meaning they do not produce their food and must consume organic matter to survive

2. The _____ workshop allowed attendees to work with tools and materials, developing their skills in a hands-on environment.
 - adj.* actively involved, practical; having hands involved in the doing or making of something

3. The designer added an _____ border to the image to give it a more polished look.
 - n.* an object or design that is set into or inserted within another, typically as a decorative or contrasting element

4. The _____ furniture made it difficult to move around the small room.
 - adj.* taking up much space or being difficult to move because of its size or weight; large and unwieldy

5. The _____ of political views has created a deep divide in the country.
 - n.* the division or separation of something into two opposing or contrasting groups or factions; the condition of being polarized or having poles

6. The children _____ their feet in time to the music.
 - v.* to walk heavily and noisily, often with a rhythmical sound; to dance with a rhythmical step

ANSWERS: 1. fungus, 2. hands-on, 3. inset, 4. bulky, 5. polarization, 6. stomped

7. A stagnant water area are breeding ground for _____.
- n.* a small flying insect whose female bites people and animals and sucks their blood, and sometimes transmits serious diseases such as malaria
8. Yoga practitioners often retreat to an _____ for intensive meditation and study.
- n.* a secluded religious community or retreat center where people practice yoga, meditation, and other spiritual disciplines under the guidance of a teacher or guru
9. The scientist used an _____ lens to produce clear and accurate images.
- adj.* lacking or without color; having no hue or saturation; referring to shades of gray or black and white
10. The fog _____ the city, making it difficult to see.
- v.* to surround and cover completely; to encase
11. 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
12. The skylight will give adequate _____ from above.
- n.* light or source of light; the degree of visibility of your environment
13. Climbing to the _____ of the mountain is a challenge that many outdoor enthusiasts strive to achieve.
- n.* the highest point or peak of something, particularly a mountain or a career; the greatest or highest level of achievement or success
14. I love making _____ cranes during my free time.
- n.* the Japanese art or practice of folding paper into decorative shapes and figures

ANSWERS: 7. mosquitos, 8. ashram, 9. achromatic, 10. enveloped, 11. microns, 12. illumination, 13. pinnacle, 14. origami

ANSWERS: