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Vocabulary Builder Reference from...

Chad Orzel: *Schrödinger's cat: A thought experiment in quantum mechanics* | TED Talk

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

Advanced Words Only

IMPORTANT

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Session 1: Word List

physicist

n. a scientist who specializes in the field of physics

(1) talented **physicist**, (2) theoretical **physicist**

Einstein was an outstanding and famous **physicist** of the 20th century.

blur

n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

synonym: smudge, smear, fuzz

(1) **blur** image, (2) motion **blur**

The camera's focus was off, and the image was a **blur** of colors and shapes.

disturb

v. to interrupt someone who is trying to work, sleep, etc.

synonym: agitate, bother, intrude

(1) **disturb** the peace, (2) **disturb** his sleep

Tourists frequently **disturb** the island's delicate natural balance.

superposition

n. a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time

synonym : overlay, overlap

(1) quantum **superposition**, (2) **superposition** theorem

The **superposition** of waves can result in either constructive or destructive interference.

slit

n. a narrow cut or opening, often made by a sharp instrument or tool; (verb) to cut or make a long, narrow opening or incision in something, typically with a sharp instrument such as a knife or scissors

synonym : slash, incision, cut

(1) **slit** pocket, (2) **slit** the fabric

He made a small **slit** in the paper to fit it in the envelope.

determinant

n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

synonym : cause, factor, element

(1) environmental **determinant**, (2) a **determinant** of crop yields

One **determinant** of success is having a positive attitude and a strong work ethic.

insulate

v. to protect something by interposing material that prevents heat, noise, electricity, etc.

synonym : isolate, protect, seclude

(1) **insulate** the room from sound, (2) **insulate** electricity

We had our bedroom **insulated** before winter came.

transistor

n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

synonym : semiconductor, microchip, circuit

(1) **transistor** radio, (2) **transistor** circuit

The invention of the **transistor** revolutionized the field of electronics.

Session 2: Spelling

1. in____te electricity *v.* to protect something by interposing material that prevents heat, noise, electricity, etc.
2. s__t pocket *n.* a narrow cut or opening, often made by a sharp instrument or tool; (verb) to cut or make a long, narrow opening or incision in something, typically with a sharp instrument such as a knife or scissors
3. b__r image *n.* a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision
4. sup_____ion theorem *n.* a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time
5. quantum sup_____ion *n.* a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time
6. di____b the peace *v.* to interrupt someone who is trying to work, sleep, etc.

ANSWERS: 1. insulate, 2. slit, 3. blur, 4. superposition, 5. superposition, 6. disturb

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|----------------------------------|---|
| 7. motion b__r | <i>n.</i> a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision |
| 8. a det_____nt of crop yields | <i>n.</i> a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result |
| 9. in_____te the room from sound | <i>v.</i> to protect something by interposing material that prevents heat, noise, electricity, etc. |
| 10. tra_____or radio | <i>n.</i> a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics |
| 11. s__t the fabric | <i>n.</i> a narrow cut or opening, often made by a sharp instrument or tool; (verb) to cut or make a long, narrow opening or incision in something, typically with a sharp instrument such as a knife or scissors |
| 12. environmental det_____nt | <i>n.</i> a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result |
| 13. di_____b his sleep | <i>v.</i> to interrupt someone who is trying to work, sleep, etc. |
| 14. talented ph_____st | <i>n.</i> a scientist who specializes in the field of physics |
| 15. theoretical ph_____st | <i>n.</i> a scientist who specializes in the field of physics |

ANSWERS: 7. blur, 8. determinant, 9. insulate, 10. transistor, 11. slit, 12. determinant, 13. disturb, 14. physicist, 15. physicist

16. tra_____or circuit

n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

ANSWERS: 16. transistor

Session 3: Fill in the Blanks

1. We had our bedroom _____ before winter came.
 - v. to protect something by interposing material that prevents heat, noise, electricity, etc.

2. The camera's focus was off, and the image was a _____ of colors and shapes.
 - n. a faint or indistinct image or sound; something that is not clear or distinct; (verb) to become unclear; to lose clear vision

3. He made a small _____ in the paper to fit it in the envelope.
 - n. a narrow cut or opening, often made by a sharp instrument or tool; (verb) to cut or make a long, narrow opening or incision in something, typically with a sharp instrument such as a knife or scissors

4. The invention of the _____ revolutionized the field of electronics.
 - n. a semiconductor device that can be used to amplify or switch electronic signals and power which is an essential component in modern electronics

5. One _____ of success is having a positive attitude and a strong work ethic.
 - n. a factor, circumstance, or condition that contributes to the shaping, influencing, or determining of a particular outcome or result

6. Einstein was an outstanding and famous _____ of the 20th century.
 - n. a scientist who specializes in the field of physics

7. Tourists frequently _____ the island's delicate natural balance.
 - v. to interrupt someone who is trying to work, sleep, etc.

ANSWERS: 1. insulated, 2. blur, 3. slit, 4. transistor, 5. determinant, 6. physicist, 7. disturb

8. The _____ of waves can result in either constructive or destructive interference.
- n.* a principle in physics that describes the combination or overlaying of two or more waves or states of matter; (of geology) the process by which layers of rock or sediment are deposited on top of one another over time

ANSWERS: 8. superposition