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## Scientists Discover a Color Never Seen by Humans

### Description

For the first time, people may have seen a new kind of color. This color is a bright blue-green that we cannot see normally.

Scientists at the University of California, Berkeley and the University of Washington found a way to help us see this color.

They created a special machine called the Oz prototype. This machine sends a laser light to our eyes. It targets certain cells in our eyes called cone cells. These cells help us see colors.

Usually, when we see colors, many cone cells work together. But with the Oz prototype, the laser goes to just one type of cone cell. This makes the brain see a color it does not know.

In a study, some people looked at a gray background while the laser flashed. They saw a new color and named it "olo." They could not find a similar color using red, green, or blue light.

The scientists hope to use this new method to help people who cannot see colors well.

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### Vocabulary List:

1. **prototype** /'prɒtə.tə.taɪp/ (noun): The first or preliminary version of a device or vehicle from which other forms are developed.
2. **laser** /'leɪ.zər/ (noun): A device that emits light through a process of optical amplification based on the stimulated emission of electromagnetic radiation.
3. **target** /'tɑːr.ɡɪt/ (verb): To aim or direct a particular action or effort towards.
4. **cone cells** /kəʊn seɪlz/ (noun): Photoreceptor cells in the retina responsible for color vision.
5. **background** /'bæk.graʊnd/ (noun): The area or scenery behind the main object of contemplation or consideration.
6. **method** /'mɛθ.əd/ (noun): A particular procedure for accomplishing or approaching something especially a systematic or established one.

### Vocabulary quizzes

#### Multiple Choice ( Select the Correct answer for each question. )

1. Which brain structure plays a key role in memory formation?



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- Option: Amygdala  
Option: Corpus Callosum  
Option: Hippocampus  
Option: Frontal Lobe
2. Who studies the physical properties and phenomena of celestial bodies?  
Option: Astronomer  
Option: Biologist  
Option: Geologist  
Option: Astrophysicist
3. Who are individuals known for their physical prowess and participation in sports?  
Option: Artists  
Option: Athletes  
Option: Scholars  
Option: Politicians
4. What is the course of action taken to combat a disease or medical condition?  
Option: Diagnosis  
Option: Exacerbation  
Option: Treatment  
Option: Prognosis
5. What type of black hole is found at the center of most galaxies?  
Option: Miniature  
Option: Supermassive  
Option: Stellar  
Option: Intermediate
6. What term refers to a gradual deterioration or decrease in quality or quantity?  
Option: Growth  
Option: Progress  
Option: Stagnation  
Option: Decline
7. What structure is used to regulate temperature for plants in colder climates?  
Option: Greenhouse  
Option: Conservatory  
Option: Warehouse  
Option: Stable
8. Which rapid eye movement helps adjust the direction of gaze?  
Option: Saccades



- Option: Nystagmus
- Option: Diplopia
- Option: Strabismus

9. What is the beginning or creation of something known as?

- Option: Conclusion
- Option: Termination
- Option: Initiation
- Option: Origination

10. What term describes the ability to withstand or overcome adverse conditions?

- Option: Fragility
- Option: Durability
- Option: Flexibility
- Option: Robustness

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. \_\_\_\_\_ is a neurodegenerative disease that causes memory loss and cognitive decline.

12. Understanding the \_\_\_\_\_ nature of the human brain is a challenge for neuroscientists.

13. The engineers developed a \_\_\_\_\_ model to test the new technology.

14. Scientists collected and analyzed the research \_\_\_\_\_ to draw conclusions.

15. Exploring the \_\_\_\_\_ of the universe is a key objective in astrophysics.

16. Finding \_\_\_\_\_ planets outside our solar system is a goal of exoplanet research.

17. The robot moved \_\_\_\_\_ across the surface avoiding obstacles.

18. Her extensive academic \_\_\_\_\_ in physics prepared her for the research project.

19. The archer aimed carefully at the \_\_\_\_\_ before releasing the arrow.



20. The study of \_\_\_\_\_ in physics involves analyzing the movement of objects.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. The magician made the rabbit vanish into thin air during the show.
22. The fireworks display in the night sky was filled with colorful explosions of light.
23. The scientist outlined a systematic approach to test the hypothesis.
24. The team embarked on a journey of discovery to uncover ancient ruins.
25. The player threw the and scored a bullseye in the game.
26. The surgeon used a precise beam of light from the to perform the operation.
27. Each in the study group had unique characteristics that affected the results.
28. During the eye exam the doctor observed rapid in the patient's gaze.
29. Astronomers study the formation and evolution of in the universe.
30. The professor emphasized the importance of gaining a deep of the subject matter.

**Answer**

**Multiple Choice:** 1. Hippocampus 2. Astrophysicist 3. Athletes 4. Treatment 5. Supermassive 6. Decline 7. Greenhouse 8. Saccades 9. Origination 10. Robustness

**Gap-Fill:** 11. Alzheimer 12. Complex 13. Prototype 14. Data 15. Mystery 16. Habitable 17. Smoothly 18. Background 19. Target 20. Motion

**Matching sentence:** 1. Disappearing 2. Bursts 3. Method 4. Exploration 5. Dart 6. Laser 7. Individual 8. Saccades 9. Galaxies 10. Understanding

**CATEGORY**

- 1. Health - LEVEL1

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