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# How Your Eye Speed Can Conceal Objects Around You

## Description

A slow-moving baseball is easy to see. But when a skilled pitcher throws it fast, the ball can seem to disappear. Some people can see fast-moving things better than others.

A new study says this may be because of quick eye movements called saccades. Our eyes move quickly to different places, helping us see more. These movements happen about two to three times every second.

Everyone's saccades are not the same speed. If someone has faster saccades, they can see fast things better.

The study shows that how we see depends on how our eyes move, not just how our eyes work. A good example is athletes, like baseball players, who might use their fast saccades to see fast motions better.

When we look around or read, our eyes dart to different spots. Sometimes this makes us "blind" for a moment. Luckily, our brain helps us by filling in those gaps, so we see smoothly.

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## Vocabulary List:

1. **Saccades** /sə'kɑ:d/ (noun): Quick eye movements that shift focus from one point to another.
2. **Disappearing** /,dɪs.ə'pɪr.ɪŋ/ (verb): The act of ceasing to be visible.
3. **Athletes** /'æθ.li:ts/ (noun): Individuals who are proficient in sports and other forms of physical exercise.
4. **Motions** /'mɒʃ.ʃənz/ (noun): The process of moving or being moved.
5. **Dart** /dart/ (verb): To move suddenly and swiftly.
6. **Smoothly** /'smu:ð.li/ (adverb): In a manner that is even and without roughness.

## Vocabulary quizzes

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

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

Option: Amygdala

Option: Corpus Callosum

Option: Hippocampus

Option: Frontal Lobe



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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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