#### Psych brain mind & behavior Unit 4

## Vision

#### The visual pathway from receptors to cortex

- Retina
  - Rod/cone receptors
  - Bipolar cells
  - Ganglion cells
- Lateral geniculate nucleus of thalamus (LGN)
- Primary visual cortex (V1, striate)
- Secondary & association cortices
  - Dorsal & ventral streams
  - Prestriate & inferotemporal cortex, posterior parietal cortex
- 3 layers of retinal cells
- Optic nerve/chiasm
  - Crossover
- LGN
- PVC
- · (secondary and association cortices not shown)

#### Dorsal and ventral stream: 2 theories and what they predict

- "Where" vs "what" theory
  - Dorsal stream specializes in visual spatial perception.
  - Ventral stream specialized in visual pattern recognition
  - Predicts:
    - Damage to dorsal stream disrupts spatial perception
    - Damage to ventral stream visual pattern recognition
- "Control of behavior" vs "conscious perception" theory
  - Dorsal steam specializes in visually guided behavior
  - Ventral stream specializes in conscious visual perception
  - Predicts:
    - Damage to dorsal stream disrupts visually guided behavior
    - Damage to ventral stream disrupts conscious visual perception but not visually guided behavior

#### The physical energy of light

- · Wavelengths: all different lengths
  - Longer: red, orange, yellow
  - Shorter: blue, purple

#### Structure of the human eye

- Figure 6. 4 in textbook
- Pupils dilate to let in certain amounts of light so as to not damage the retina while still being able to see things
- Ligaments attach to the lens, pull on it to change its shape ever so slightly

# **Brain Mind Behavior 3ed**

**K Payea** 

**Brain Mind Behavior 3ed:** 

## Brain Mind Behavior 3ed Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Brain Mind Behavior 3ed**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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#### **Table of Contents Brain Mind Behavior 3ed**

- 1. Understanding the eBook Brain Mind Behavior 3ed
  - The Rise of Digital Reading Brain Mind Behavior 3ed
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Brain Mind Behavior 3ed
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Brain Mind Behavior 3ed
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Brain Mind Behavior 3ed
  - Personalized Recommendations
  - Brain Mind Behavior 3ed User Reviews and Ratings
  - Brain Mind Behavior 3ed and Bestseller Lists

- 5. Accessing Brain Mind Behavior 3ed Free and Paid eBooks
  - Brain Mind Behavior 3ed Public Domain eBooks
  - Brain Mind Behavior 3ed eBook Subscription Services
  - Brain Mind Behavior 3ed Budget-Friendly Options
- 6. Navigating Brain Mind Behavior 3ed eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Brain Mind Behavior 3ed Compatibility with Devices
  - Brain Mind Behavior 3ed Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Brain Mind Behavior 3ed
  - Highlighting and Note-Taking Brain Mind Behavior 3ed
  - Interactive Elements Brain Mind Behavior 3ed
- 8. Staying Engaged with Brain Mind Behavior 3ed
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Brain Mind Behavior 3ed
- 9. Balancing eBooks and Physical Books Brain Mind Behavior 3ed
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Brain Mind Behavior 3ed
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Brain Mind Behavior 3ed
  - Setting Reading Goals Brain Mind Behavior 3ed
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Brain Mind Behavior 3ed
  - Fact-Checking eBook Content of Brain Mind Behavior 3ed
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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