

WebQuest: Neurotransmitters, Cravings & Addiction

By: Sandra R. Holmes

(page 1 of 18)

Objectives:

- 1.) The student will be able to explain the structure and the function of each part of the neuron.
- 2.) The student will be able to explain the connection between neurotransmission and addiction.

Audience: High School: General Biology, Anatomy & Physiology, Health



Have you ever wondered why you *crave* chocolate or have to *have* your morning coffee?
Have you ever wondered why you *need* that can of cola to keep awake during the day?

In this investigation you will explore the connection between addiction and neurotransmission to help answer the question why. You will take a look at how caffeine, as well as how nicotine, alcohol, marijuana and cocaine can affect neurotransmission in the human body. You will also learn the parts of a neuron and how they function.

Nicotine

Alcohol

Marijuana

Cocaine

This webquest is divided into three parts:

1.) The Basics: "The neuron - its parts & how it works"

- A.) What is a neuron?
- B.) What are the parts of a neuron?
- C.) How do neurons work?
- D.) What is the connection between neurons, the brain and the body?
- E.) Quiz: What did you learn about the neuron?

2.) An Example: "Is caffeine addictive?"

- A.) What is caffeine?
- B.) Which foods and beverages contain caffeine?
- C.) How does caffeine affect neurotransmission?
- D.) And ...what about chocolate?

3.) The Project: "How does nicotine, alcohol, marijuana & cocaine affect neuron transmission?"

- A.) Investigate the affects of one drug on neurotransmission.
- B.) Design a poster and present an oral report on your findings.
- C.) Produce a pamphlet that explains your findings to the public.

NOTATION TO TEACHERS:

This webquest includes websites, investigation worksheets, a quiz, project instructions and rubrics. Refer to the "Resource Section" at the end of this webquest. Graphics are also available.

Webquest Neurotransmitters Cravings And Addiction Answers

Michal Rosen-Zvi



Webquest Neurotransmitters Cravings And Addiction Answers:

Delve into the emotional tapestry woven by Emotional Journey with in Dive into the Emotion of **Webquest Neurotransmitters Cravings And Addiction Answers** . This ebook, available for download in a PDF format (Download in PDF: *), is more than just words on a page; it's a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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Table of Contents Webquest Neurotransmitters Cravings And Addiction Answers

1. Understanding the eBook Webquest Neurotransmitters Cravings And Addiction Answers
 - The Rise of Digital Reading Webquest Neurotransmitters Cravings And Addiction Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Webquest Neurotransmitters Cravings And Addiction Answers
 - 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 Webquest Neurotransmitters Cravings And Addiction Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Webquest Neurotransmitters Cravings And Addiction Answers
 - Personalized Recommendations
 - Webquest Neurotransmitters Cravings And Addiction Answers User Reviews and Ratings
 - Webquest Neurotransmitters Cravings And Addiction Answers and Bestseller Lists
5. Accessing Webquest Neurotransmitters Cravings And Addiction Answers Free and Paid eBooks
 - Webquest Neurotransmitters Cravings And Addiction Answers Public Domain eBooks
 - Webquest Neurotransmitters Cravings And Addiction Answers eBook Subscription Services

- Webquest Neurotransmitters Cravings And Addiction Answers Budget-Friendly Options
- 6. Navigating Webquest Neurotransmitters Cravings And Addiction Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Webquest Neurotransmitters Cravings And Addiction Answers Compatibility with Devices
 - Webquest Neurotransmitters Cravings And Addiction Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Webquest Neurotransmitters Cravings And Addiction Answers
 - Highlighting and Note-Taking Webquest Neurotransmitters Cravings And Addiction Answers
 - Interactive Elements Webquest Neurotransmitters Cravings And Addiction Answers
- 8. Staying Engaged with Webquest Neurotransmitters Cravings And Addiction Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Webquest Neurotransmitters Cravings And Addiction Answers
- 9. Balancing eBooks and Physical Books Webquest Neurotransmitters Cravings And Addiction Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Webquest Neurotransmitters Cravings And Addiction Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Webquest Neurotransmitters Cravings And Addiction Answers
 - Setting Reading Goals Webquest Neurotransmitters Cravings And Addiction Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Webquest Neurotransmitters Cravings And Addiction Answers
 - Fact-Checking eBook Content of Webquest Neurotransmitters Cravings And Addiction Answers
 - 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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