



# The Adolescent Brain: Learning, Reasoning, and Decision Making

*Valerie F. Reyna*

Download now

Read Online →

[Click here](#) if your download doesn't start automatically

# The Adolescent Brain: Learning, Reasoning, and Decision Making

Valerie F. Reyna

## **The Adolescent Brain: Learning, Reasoning, and Decision Making** Valerie F. Reyna

The period from adolescence through young adulthood is one of great promise and vulnerability. As teenagers approach maturity, they must develop and apply the skills and habits necessary to navigate adulthood and compete in an ever more technological and globalized world. But as parents and researchers have long known, there is a crucial dichotomy between adolescents' cognitive competence and their frequent inability to utilize that competence in everyday decision-making.

This volume brings together an interdisciplinary group of leading scientists to examine how the adolescent brain develops, and how this development impacts various aspects of reasoning and decision-making, from the use and function of memory and representation, to judgment, mathematical problem-solving, and the construction of meaning.

The contributors ask questions that seek to uncover the basic mechanisms underlying brain development in adolescence, such as:

- How do the concepts of proof and reasoning emerge?
- What is the relationship between cognitive and procedural understanding in problem-solving?
- How can researchers build assessments to capture and describe learning over time?

*The Adolescent Brain* raises questions relevant to young people's educational and health outcomes, as well as to neuroscience research.

## Table of Contents

Preface (or Acknowledgements) - Valerie F. Reyna

Introduction - Valerie F. Reyna, Sandra B. Chapman, Michael R. Dougherty, and Jere Confrey

### I. Foundations

1. Anatomic Magnetic Resonance Imaging of the Developing Child and Adolescent Brain - Jay N. Giedd, Michael Stockman, Catherine Weddle, Maria Liverpool, Gregory L. Wallace, Nancy R. Lee, Francois Lalonde, and Rhoshel K. Lenroot

### II. Memory, Meaning, and Representation

2. Semantic and Associative Relations in Adolescents and Young Adults: Examining a Tenuous Dichotomy - Ken McRae, Saman Khalkhali, and Mary Hare

3. Representation and Transfer of Abstract Mathematical Concepts in Adolescence and Young Adulthood - Jennifer A. Kaminski and Vladimir M. Sloutsky

4. A Value of Concrete Learning Materials in Adolescence - Kristen P. Blair and Daniel L. Schwartz

5. Higher-Order Strategic Gist-Reasoning in Adolescence - Sandra B. Chapman, Jacquelyn F. Gamino, and Raksha Anand

### III. Learning, Reasoning, and Problem Solving

6. Better Measurement of Higher-Cognitive Processes through Learning Trajectories and Diagnostic Assessments in Mathematics: The Challenge in Adolescence - Jere Confrey

7. Adolescent Reasoning in Mathematical and Non-Mathematical Domains: Exploring the Paradox - Eric Knuth, Charles Kalish, Amy Ellis, Caroline Williams, and Mathew Felton

8. Training the Adolescent Brain: Neural Plasticity and the Acquisition of Cognitive Abilities - Sharona M.

Atkins, Michael F. Bunting, Donald J. Bolger, and Michael R. Dougherty

9. Higher Cognition is Altered by Non-Cognitive Factors: How Affect Enhances and Disrupts Mathematics Performance in Adolescence and Young Adulthood - Mark H. Ashcraft and Nathan O. Rudig

IV. Judgment and Decision Making

10. Risky Behavior in Adolescents: The Role of the Developing Brain - Adrianna Galvan

11. Affective Motivators and Experience in Adolescents Development of Health-Related Behavior Patterns - Sandra L. Schneider and Christine M. Caffray

12. Judgment and Decision Making in Adolescence: Separating Intelligence from Rationality - Keith Stanovich, Richard F. West, and Maggie E. Toplak

13. A Fuzzy-Trace Theory of Adolescent Risk Taking: Beyond Self-Control and Sensation Seeking - Christina Chick and Valerie F. Reyna

V. Epilogue

14. Paradoxes in the Adolescent Brain in Cognition, Emotion, and Rationality - Valerie F. Reyna

 [Download The Adolescent Brain: Learning, Reasoning, and Decision ...pdf](#)

 [Read Online The Adolescent Brain: Learning, Reasoning, and Decisi ...pdf](#)

**Download and Read Free Online The Adolescent Brain: Learning, Reasoning, and Decision Making**  
**Valerie F. Reyna**

---

## **Download and Read Free Online The Adolescent Brain: Learning, Reasoning, and Decision Making** **Valerie F. Reyna**

---

### **From reader reviews:**

#### **Joseph Blackwell:**

Do you have favorite book? In case you have, what is your favorite's book? E-book is very important thing for us to find out everything in the world. Each reserve has different aim or perhaps goal; it means that reserve has different type. Some people really feel enjoy to spend their the perfect time to read a book. They can be reading whatever they acquire because their hobby is definitely reading a book. Consider the person who don't like reading a book? Sometime, particular person feel need book whenever they found difficult problem or exercise. Well, probably you will need this The Adolescent Brain: Learning, Reasoning, and Decision Making.

#### **Loren Benton:**

In this 21st hundred years, people become competitive in most way. By being competitive now, people have do something to make these survives, being in the middle of the crowded place and notice by means of surrounding. One thing that occasionally many people have underestimated this for a while is reading. Yeah, by reading a book your ability to survive enhance then having chance to endure than other is high. For yourself who want to start reading a book, we give you this specific The Adolescent Brain: Learning, Reasoning, and Decision Making book as beginner and daily reading book. Why, because this book is usually more than just a book.

#### **Latricia Wynkoop:**

The book untitled The Adolescent Brain: Learning, Reasoning, and Decision Making contain a lot of information on that. The writer explains the woman idea with easy means. The language is very clear and understandable all the people, so do certainly not worry, you can easy to read this. The book was authored by famous author. The author gives you in the new era of literary works. It is easy to read this book because you can keep reading your smart phone, or product, so you can read the book with anywhere and anytime. In a situation you wish to purchase the e-book, you can available their official web-site along with order it. Have a nice study.

#### **Linda Justice:**

A lot of e-book has printed but it is unique. You can get it by online on social media. You can choose the best book for you, science, comedy, novel, or whatever through searching from it. It is named of book The Adolescent Brain: Learning, Reasoning, and Decision Making. You can include your knowledge by it. Without making the printed book, it can add your knowledge and make you actually happier to read. It is most important that, you must aware about reserve. It can bring you from one location to other place.

**Download and Read Online The Adolescent Brain: Learning,  
Reasoning, and Decision Making Valerie F. Reyna  
#SABQ0FRK7Y3**

# **Read The Adolescent Brain: Learning, Reasoning, and Decision Making by Valerie F. Reyna for online ebook**

The Adolescent Brain: Learning, Reasoning, and Decision Making by Valerie F. Reyna Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Adolescent Brain: Learning, Reasoning, and Decision Making by Valerie F. Reyna books to read online.

## **Online The Adolescent Brain: Learning, Reasoning, and Decision Making by Valerie F. Reyna ebook PDF download**

**The Adolescent Brain: Learning, Reasoning, and Decision Making by Valerie F. Reyna Doc**

**The Adolescent Brain: Learning, Reasoning, and Decision Making by Valerie F. Reyna Mobipocket**

**The Adolescent Brain: Learning, Reasoning, and Decision Making by Valerie F. Reyna EPub**

**The Adolescent Brain: Learning, Reasoning, and Decision Making by Valerie F. Reyna Ebook online**

**The Adolescent Brain: Learning, Reasoning, and Decision Making by Valerie F. Reyna Ebook PDF**