



# basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

**NATIONAL  
SENIOR CERTIFICATE**

**GRADE 12**

**PHYSICAL SCIENCES: PHYSICS (P1)**

**EXEMPLAR 2014**

**MARKS: 150**

**TIME: 3 hours**

**This question paper consists of 16 pages and 3 data sheets.**

# Sciences P1 September 2014 Exemplar

**Jaan Aru, Talis Bachmann**



## Sciences P1 September 2014 Exemplar:

*Beyond the simple contrastive analysis: Appropriate experimental approaches for unraveling the neural basis of conscious experience* Jaan Aru, Talis Bachmann, 2015-06-26 Contrasting conditions with and without conscious experience has served consciousness research well. However, research based on this simple contrast has led to controversies about the neural basis of conscious experience. One key reason for these ongoing debates seems to be that the simple contrast between conditions with and without consciousness is not specific for unraveling the neural basis of conscious experience but rather also leads to other processes that precede or follow it. Acknowledging this methodological problem implies that some of the previous research findings about the neural underpinnings of conscious experience are actually reflecting the prerequisites and consequences rather than the direct correlates of conscious perception. Thus, it is required to re-evaluate the previous results to find out which of them are telling us anything about the neural basis of consciousness. But first and foremost to overcome this methodological problem, we need new experimental paradigms that go beyond the simple contrastive analysis or find the ways how some older but well forgotten paradigms may foster a new look at this emerging problem. Accordingly, this research topic is looking for empirical and theoretical contributions that 1) envision new and suitable experimental approaches to study consciousness that are free from the limitations of the simple contrastive analysis, 2) provide empirical data that help to separate the neural correlates of conscious experience from the prerequisites and consequences of it, 3) help to re-assess previous research findings about the neural correlates of conscious perception in the light of the methodological problems with the traditional contrastive analysis. We hope that the theoretical insights and experimental approaches collected within this Research Topic help us to gain a more refined understanding of the neural basis of conscious experience.

*Quantum Structures in Cognitive and Social Science* Diederik Aerts, Jan Broekaert, Liane Gabora, Sandro Sozzo, 2016-06-26 Traditional approaches to cognitive psychology correspond with a classical view of logic and probability theory. More specifically, one typically assumes that cognitive processes of human thought are founded on the Boolean structures of classical logic while the probabilistic aspects of these processes are based on the Kolmogorovian structures of classical probability theory. However, growing experimental evidence indicates that the models founded on classical structures systematically fail when human decisions are at stake. These experimental deviations from classical behavior have been called paradoxes, fallacies, effects, or contradictions depending on the specific situation where they appear. But they involve a broad spectrum of cognitive and social science domains ranging from conceptual combination to decision making under uncertainty, behavioral economics, and linguistics. This situation has constituted a serious drawback to the development of various disciplines like cognitive science, linguistics, artificial intelligence, economic modeling, and behavioral finance. A different approach to cognitive psychology initiated two decades ago has meanwhile matured into a new domain of research called quantum cognition. Its main feature is the use of the mathematical formalism of quantum theory as modeling tool for

these cognitive situations where traditional classically based approaches fail Quantum cognition has recently attracted the interest of important journals and editing houses academic and funding institutions popular science and media Specifically within a quantum cognition approach one assumes that human decisions do not necessarily obey the rules of Boolean logic and Kolmogorovian probability and can on the contrary be modeled by the quantum mechanical formalism Different concrete quantum theoretic models have meanwhile been developed that successfully represent the cognitive situations that are classically problematical by explaining observed deviations from classicality in terms of genuine quantum effects such as contextuality emergence interference superposition entanglement and indistinguishability In addition the validity of these quantum models is convincingly confirmed by new experimental tests We also stress that since the use of a quantum theoretic framework is mainly for modeling purposes the identification of quantum structures in cognitive processes does not presuppose without being incompatible with it the existence of microscopic quantum processes in the human brain In this Research Topic we review the major achievements that have been obtained in quantum cognition by providing an accurate picture of the state of the art of this emerging discipline Our overview does not pretend to be either complete or exhaustive But we aim to introduce psychologists and social scientists to this challenging new research area encouraging them at the same time to consider its promising results It is our opinion that if continuous progress in this domain can be realized quantum cognition can constitute an important breakthrough in cognitive psychology and potentially open the way towards a new scientific paradigm in social science

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## **Table of Contents Sciences P1 September 2014 Exemplar**

1. Understanding the eBook Sciences P1 September 2014 Exemplar
  - The Rise of Digital Reading Sciences P1 September 2014 Exemplar
  - Advantages of eBooks Over Traditional Books
2. Identifying Sciences P1 September 2014 Exemplar
  - 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 Sciences P1 September 2014 Exemplar
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sciences P1 September 2014 Exemplar

- Personalized Recommendations
- Sciences P1 September 2014 Exemplar User Reviews and Ratings
- Sciences P1 September 2014 Exemplar and Bestseller Lists
- 5. Accessing Sciences P1 September 2014 Exemplar Free and Paid eBooks
  - Sciences P1 September 2014 Exemplar Public Domain eBooks
  - Sciences P1 September 2014 Exemplar eBook Subscription Services
  - Sciences P1 September 2014 Exemplar Budget-Friendly Options
- 6. Navigating Sciences P1 September 2014 Exemplar eBook Formats
  - ePub, PDF, MOBI, and More
  - Sciences P1 September 2014 Exemplar Compatibility with Devices
  - Sciences P1 September 2014 Exemplar Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sciences P1 September 2014 Exemplar
  - Highlighting and Note-Taking Sciences P1 September 2014 Exemplar
  - Interactive Elements Sciences P1 September 2014 Exemplar
- 8. Staying Engaged with Sciences P1 September 2014 Exemplar
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sciences P1 September 2014 Exemplar
- 9. Balancing eBooks and Physical Books Sciences P1 September 2014 Exemplar
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sciences P1 September 2014 Exemplar
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sciences P1 September 2014 Exemplar
  - Setting Reading Goals Sciences P1 September 2014 Exemplar
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sciences P1 September 2014 Exemplar

- Fact-Checking eBook Content of Sciences P1 September 2014 Exemplar
- 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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