

# basic education

Department: Basic Education REPUBLIC OF SOUTH AFRICA

# NATIONAL SENIOR CERTIFICATE

**GRADE 12** 

**LIFE SCIENCES P2** 

**NOVEMBER 2015** 

**MEMORANDUM 2015** 

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# <u>Life Science P2 2015 Memo</u>

**Liying Dong** 

#### Life Science P2 2015 Memo:

Time And Science - Volume 2: Life Sciences Remy Lestienne, Paul Harris, 2023-06-22 Life and Time are very closely linked because life needs the patience of eons to emerge and evolve and also due to the precision timing of neural networks in the perception of the world encoding information and performing actions A dozen renowned biologists and neuroscientists collaborate in this volume to explore the various facets of timing in the living world. The temporal programming of the activity of the genetic code controls the essential mechanisms of individual development from zygote to adult while evolution uses the succession of generations to accomplish its work For its part the brain accomplishes the miracle of justifying presentism and reconstructing the continuity of present time from the fragmented data accessible to the senses as well as measuring durations and dating events To this end the brain uses a multilevel temporal coding to transport and decode sensory information and prepare motor responses It is only gradually that we have discovered the temporal precision of the mechanisms involved of the order of a few milliseconds or less for the adjustment of neural networks or the synaptic plasticity used for memory formation Today the perfection of natural neural networks the energy saving use of spikes of electrical impulses to categorize the sensory environment and to guess its probable future is an example to the modelers and engineers of artificial intelligence Time And Science (In 3 Volumes) Remy Lestienne, Paul Harris, 2023-06-21 Prominent scientists and philosophers of science address contemporary debates on the nature of Time Their contributions freely discuss its unity and reality its compatibility with the orders of classical philosophy present past and future and with the disputed idea of free will Volume 1 They also present a detailed and updated state of the role of Time in the so called exact sciences biology or more precisely genetics evolution neurosciences natural and artificial intelligence Volume 2 and physics relativity quantum mechanics and quantum gravity and cosmology Volume 3 NASA SP-7500 United States. National Aeronautics and Space Administration, Management, 1990 Scientific and Technical Aerospace Reports, Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Index de Périodiques** Canadiens ,2002 Science Citation Index ,1994 Vols for 1964 have guides and journal lists

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