Year Level: 9	Subject: Science 901
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Week	Unit	Learning Focus	Victorian Curriculum		
1-7	Introduction to Year 9 Science & Revision of Safety Nervous & endocrine systems, Diseases & Microbes	 Describe the broad divisions of the nervous system – Central and Peripheral Describe the stimulus response model. Describe the variety of receptors which detect external stimuli. Distinguish between the structure and function of the main types of neurons – sensory, interconnecting and motor Understand and model nervous signalling pathways. Provide examples of human reflex actions. Identify functions for different areas of the brain. Dissect a brain. Research a disease of the nervous system and present their findings to the class. Describe the different endocrine glands and the hormones they produce. Investigate the role of some plant hormones in regulating plant growth. 	Multicellular organisms rely on coordinated and interdependent internal systems to respond to changes to their environment VCSSU117 An animal's response to a stimulus is coordinated by its central nervous system (brain and spinal cord); neurons transmit electrical impulses and are connected by synapses VCSSU118		
8 - 14	Acids & bases, Atomic Structure, Chemical reactions,	 Investigate the properties of acids and bases and how acidity is measured. Investigate the reactions of acids with metals bases and carbohydrates Describe chemical reactions using word equations. Outline the impacts of acid rain. Describe and demonstrate Conservation of Mass 	Chemical reactions, including combustion and the reactions of acids, are important in both non-living and living systems and involve energy transfer VCSSU126		

15-20Consumer ScienceFormulate testable hypothesesFormul15-20Consumer Science• Formulate testable hypothesesFormul• Explain the differences between independent, dependent and controlled variables.• Explain the differences between independent, dependent and controlled variables.• Formulate investig identific control Independent• Relate reliability of results to sample size and repetition of the test• Design an experiment to test the claims of a manufacturer of a consumer product according to the scientific methods ensuring safety and ethical standards are met.• Carry out the experiment and present the data in a suitable form• Analyse data trends and draw appropriate conclusions and evaluate their experimental design.• Present their findings in a scientific report with all relevant sections using appropriate scientific language and conventions.• and report	ate questions or hypotheses that can be ated scientifically, including sation of independent, dependent and ed variables VCSIS134 idently plan, select and use appropriate ation types, including fieldwork and ory experimentation, to collect reliable sess risk and address ethical issues red with these investigation types 5 nicate scientific ideas and information rticular purpose, including constructing e-based arguments and using riate scientific language, conventions resentations VCSIS140
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