



Date: SEPTEMBER 2024

Time: 2 ½ HOURS

Mark: 150

INSTRUCTIONS AND INFORMATION

Read the following instruction carefully before answering the questions.

1. Answer ALL questions.
2. Write ALL the answers on the provided FOLIO PAPER.
3. **STOP OFF** after each question.
4. Start each section on a **NEW** page.
5. Number the answers correctly according to the numbering system used in this question paper.
6. Present your answers according to the instructions for each question.
7. Do ALL drawings in pencil and label them in blue pen.
8. Draw diagrams or flow charts only when asked to do so.
9. The diagrams in this question paper are **NOT** all drawn to scale.
10. You may use a non-programmable calculator, protractor, and compass.
11. You may **NOT** use graph paper.
12. Write neatly and legibly.

EXAM AGREEMENT

I, _____ (Name & Surname), Grade _____

hereby acknowledge that I will abide by all examination rules stipulated below during the writing of my **LIFE SCIENCE** exam.**RULES:**

1. I will not have any electronic equipment in my possession (cell phones, smart watches and earphones).
2. I will not cause any disruption during this exam in the exam venue.
3. I will be honest at all times.

All rules, as discussed with me, will be honoured and obeyed.

Learner Signature**SECTION A****Question 1**

1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.10) on the FOLIO PAPER, for example 1.1.6 E.

1.1.1 Hollow, pear-shaped organ.

- A. Vagina
- B. Uterus
- C. Fallopian tubes
- D. Placenta

1.1.2 Choose the letter that does not explain the process of oogenesis.

- A. The diploid germinal epithelium cells of the ovaries go through the process of mitosis to form many follicles.
- B. Every 21 days, the follicle stimulating hormone (FSH) stimulates one follicle. Only one cell inside of that follicle enlarges and goes through the process of meiosis.
- C. Out of the 4 haploid cells produced through meiosis, only one cell will survive to form a mature ovum.
- D. The other three cells from meiosis will degenerate.

1.1.3 Before copulation the male sperm is stored temporarily in the...

- A. seminal vesicles
- B. scrotum
- C. prostate gland
- D. epididymis

1.1.4 Structure that receives a stimulus and converts it into an impulse

- A. autonomic nervous system
- B. effector
- C. stimulus
- D. receptor

Scope For 2014 Life Science Pand P

**Carla C. Johnson, Janet B. Walton, Erin
E. Peters-Burton**



Scope For 2014 Life Science Pand P:

Expanding Boundaries: Systems Thinking in the Built Environment Guillaume Habert, Arno Schlueter, 2016-08-15 Consuming over 40% of total primary energy the built environment is in the centre of worldwide strategies and measures towards a more sustainable future To provide resilient solutions a simple optimisation of individual technologies will not be sufficient In contrast whole system thinking reveals and exploits connections between parts Each system interacts with others on different scales materials components buildings cities and domains ecology economy and social Whole system designers optimize the performance of such systems by understanding interconnections and identifying synergies The more complete the design integration the better the result In this book the reader will find the proceedings of the 2016 Sustainable Built Environment SBE Regional Conference in Zurich Papers have been written by academics and practitioners from all continents to bring forth the latest understanding on systems thinking in the built environment

Habitats Local and Far Away, Grade 1 Carla C. Johnson, Janet B. Walton, Erin E. Peters-Burton, 2024-03-13 What if you could challenge your first graders to imagine saving an endangered species learning about different global habitats along the way With this volume in the STEM Road Map Curriculum Series you can Habitats Local and Far Away outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary four lesson module uses project and problem based learning to help students develop an action plan to encourage preservation of an endangered species Students will work in teams to describe the habitat characteristics of a species outside their home region explain why the species is endangered and offer solutions about how humans might be able to support this species survival In developing their plan they will act as explorers of species locally and around the world learning about climate plant and animal inhabitants and key factors affecting habitat vitality or decline To support this goal students will do the following Explain that there are various types of habitats that vary with geographical location around the world Identify several habitats in the U S and globally Explain how various habitats meet animals basic needs Identify climatic characteristics of several habitats Identify humans as species that live within and in interaction with various habitats Identify technological advances and tools that scientists use to learn about habitats and endangered species Design and construct models to demonstrate understanding of features of various habitats local and global and endangered species Apply their knowledge of habitat characteristics interdependence in ecosystems and endangered species to develop an action plan to help preserve their selected endangered species The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Habitats Local and Far Away can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach

Rebuilding the Natural Environment, Grade 10 Carla C.

Johnson, Janet B. Walton, Erin E. Peters-Burton, 2022-05-23 What if you could challenge your tenth graders to think about how innovation can make the world a better place for humans while finding ways to sustain progress and conserve resources With this volume in the STEM Road Map Curriculum Series you can Rebuilding the Natural Environment outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary four lesson module uses project and problem based learning to help students connect their existing knowledge about energy production and its effects on the natural environment to create innovations in renewable sources of energy based on research evidence Working in teams students will design an innovative way to meet society s energy needs and develop a pitch to market their innovation focusing on how the innovation will optimize human experiences while being mindful of the natural environment To support this goal students will do the following Understand several forms of renewable sustainable energy sources Apply their understanding of how alternators are used to generate electricity in lab experiments as well as explain how tools such as windmills and dams are used to operate them Describe how electricity is generated in photovoltaic cells Calculate the amount of electricity consumed by several household items and consider this consumption when determining the average monthly energy consumption of households around the world in comparison to U S households Understand how fossil fuels have been used in the production of electricity and the impact they have had on the world s economy humans quality of life and the earth Identify several hindrances to the creation of new energy sources as well as ideas to counter them List several factors that can be used to motivate people from all walks of life to use renewable and sustainable energies Create a fictional company that uses renewable energies The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Rebuilding the Natural Environment can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach **Genetically Modified**

Organisms, Grade 7 Carla C. Johnson, Janet B. Walton, Erin E. Peters-Burton, 2022-05-24 What if you could challenge your seventh graders to become informed citizens by analyzing real world implications of GMOs With this volume in the STEM Road Map Curriculum Series you can Genetically Modified Organisms outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary five lesson module uses project and problem based learning to help students investigate the opportunities and challenges of GMO production and consumption Working in teams students will create a documentary communicating the health social and economic aspects of GMO production and consumption To support this goal students will do the following Use the Internet and other sources to build knowledge of an issue and recognize and value stakeholders and their viewpoints in an issue

Explore the relationship among local state and federal legislation related to GMOs Understand the role of cost benefit analysis in making informed economic decisions Develop skills to evaluate arguments create and communicate individual understanding and perspectives Gain a deeper understanding that structure and function are related by examining plants and how the environment and genetics influences structure Gain a better understanding of what tools humans have developed to genetically alter organisms for human benefit The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Genetically Modified Organisms can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach

Handbook of Algal Technologies and Phytochemicals Gokare A. Ravishankar, Ranga Rao Ambati, 2019-07-12 Key features The most comprehensive resource available on the biodiversity of algal species their industrial production processes and their use for human consumption in food health and varied applications Emphasis on basic and applied research addressing aspects of scale up for commercial exploitation for the development of novel phytochemicals phytochemicals from algae Addresses the underexplored and underutilized potential of chemicals from marine sources for health benefits Each chapter written by expert contributors from around the world includes Summary Points Figures and Tables as well as up to date references The first book in this two volume set explores the diversity of algal constituents for health and disease applications The commercial value of chemicals of value to food and health is about 6 billion annually of which 30 percent relates to micro and macro algal metabolites and products for health food applications This comprehensive volume looks in detail at algal genomics and metabolomics as well as mass production of microalgae As a whole the two volume set covers all micro and macro algal forms and their traditional uses their constituents which are of value for food feed specialty chemicals bioactive compounds for novel applications and bioenergy molecules Bio business and the market share of algae based products are also dealt with providing global perspectives

Plasticity in the Life Sciences Antonine Nicoglou, 2024-12-06 Analyzes the reasons why biologists have referred to and continue to refer to plasticity Plasticity has become an important topic in biology with some even wondering if it has now acquired the theoretical importance in biology that the concept of the gene enjoyed at the beginning of the last century In this historical and epistemological study philosopher Antonine Nicoglou shows how the recurrence of the general idea of plasticity throughout the history of the life sciences indicates its essential role in the way we think about life processes Although plasticity has become a key element in new evolutionary thinking she argues its role in contemporary biology is also not insignificant Rather as mobilized in contemporary biology plasticity most often seeks to account for the specific nature of living systems The book is divided into two parts The first takes up the history of plasticity from Aristotle to contemporary biology the second part offers an original way of distinguishing between different phenomena described by plasticity In the process the author explores what has led some biologists to speak of plasticity as a way of

overcoming genetic determinism

Our Changing Environment, Grade K Carla C. Johnson, Janet B. Walton, Erin E.

Peters-Burton, 2022-05-30 What if you could challenge your kindergartners to come up with a way to reduce human impact on the environment With this volume in the STEM Road Map Curriculum Series you can Our Changing Environment outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary three lesson module uses project and problem based learning to help students investigate the environment around them with a focus on ways that humans can impact the environment Working in teams students will investigate various types of human impact on the environment including pollution littering and habitat destruction will participate in a classroom recycling program and will explore the engineering design process as they devise ways to repurpose waste materials To support this goal students will do the following Identify human impacts on the environment Identify technological advances and tools that scientists use to learn about the changing environment and use technology to gather data Explain discuss and express concepts about the environment through development and design of a publication to report their scientific findings about the environment around the school Chart and understand local weather patterns and make connections between weather conditions and their observations of the environment Identify and demonstrate recycling practices including sorting materials and tracking amounts of materials recycled and participate in a class recycling program The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Our Changing Environment can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach

Stigma, State Expressions and the Law Paul Quinn, 2019-05-21

This book demonstrates the difficulties the law is likely to encounter in regulating the expressive activities of the state particularly with regard to the stigmatization of vulnerable groups and minorities Freedom of speech is indispensable to a democratic society enabling it to operate with a healthy level of debate and discussion Historically legal scholars have underappreciated the power of stigmatization instead focusing on anti discrimination law and the implicit assumption that the state is permitted to communicate freely with little fear of legal consequences Whilst integral to a democratic society the freedom of a state to express itself can however also be corrosive allowing influential figures and organizations the possibility to stigmatize vulnerable groups within society The book takes this idea and uniquely weaving legal analysis with extant psychological and sociological research shows that current legal approaches to stigmatization are limited Starting with a deep insight into what constitutes state expressions and how they can become stigmatizing the book then goes on to look into the capacity the law currently has to limit these expressions and asks even if it could should it This fascinating study of an increasingly topical subject will be of interest to any legal scholar working in the field of freedom of expression and

discrimination law **Solanum tuberosum** Mustafa Yildiz,Yasin Ozgen,2021-12-22 Potato *Solanum tuberosum* L is the fourth largest food crop produced in the world with approximately 370 million tonnes This product is a staple in many diets throughout the world and the underground swollen tubers of the plant are rich sources of proteins carbohydrates minerals K Mn Mg Fe Cu and P and vitamins C B1 B3 B6 K folate pantothenic acid Improvement of new potato cultivars resistant to biotic and abiotic factors is extremely important as these are the main reasons for decreased potato production Seed tuber production and tuber storage under healthy conditions after harvest are two important issues in potato cultivation As such this book discusses the importance of the potato plant and examines ways to increase its production and develop new cultivars resistant to stress factors via conventional and biotechnological methods Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology Keith Wilson,Andreas Hofmann,John M. Walker,Samuel Clokie,2018-04-19 A major update of a best selling textbook that introduces students to the key experimental and analytical techniques underpinning life science research *Managing Quality of Life in Tourism and Hospitality* Muzaffer Uysal,M Joseph Sirgy,Stefan Kruger,2018-10-29 This book shares the work of various scholars under the umbrella of quality of life in tourism and hospitality including case studies showing best practice The main goal of this volume is to provide a portfolio of selected activities from tourism and hospitality settings as best practices and examine how these best practices play a role in the well being of various stakeholder groups including tourists residents of the host community and the providers of tourism services The book has 11 chapters and a subject index The Carbon Footprint Handbook Subramanian Senthilkannan Muthu,2015-09-22 Thorough and detailed The Carbon Footprint Handbook encompasses all areas of carbon footprint including the scientific elements methodological and technological aspects standards industrial case studies and communication of carbon footprint results Written and edited by an international group of experts the far ranging topics on carbon foot **Habitats in the United States, Grade K** Carla C. Johnson,Janet B. Walton,Erin E. Peters-Burton,2024-03-12 What if you could challenge your kindergarten students to compare their local habitats with other habitats in the United States With this volume in the STEM Road Map Curriculum Series you can *Habitats in the United States* outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary three lesson module uses project and problem based learning to help students look at their own neighborhood city state and beyond to learn about the geography and habitats of various regions of the United States Students will gather information on habitats and their similarities and differences based on weather climate and the animals plants and people residing there to develop a reference manual for local zoo officials reorganizing their animal displays To support this goal students will do the following Explain that there are different types of habitats in different parts of the U S Explain how various habitats sustain animals and plants Identify climatic characteristics of several

habitats Apply their knowledge of habitats to develop a reference guide about habitats in the U S Utilize technology to gather research information and communicate Identify technological advances and tools that scientists use to learn about sustainable systems Design and construct models of habitats Understand local weather patterns and make connections among weather patterns and plant and animal life where they live The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Habitats in the United States can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach **Nanomaterials for Spectroscopic**

Applications Kaushik Pal,2021-06-18 This book provides an overview of key current developments in the synthetic strategy of functional novel nanomaterials in various spectroscopic characterizations and evaluations and highlights possible future applications in nanotechnology and materials science It illustrates the wide ranging interest in these areas and provides a background to the later chapters which address the novel synthesis of high yield nanomaterials and their biomaterials graphene polymeric nanomaterials green nanomaterials green polyester liquid crystal electro optic switching applications nanobiotechnology transition metal oxides response characteristics of exclusive spectroscopic investigation as well as electron microscopic study flexible and transparent electrodes optoelectronics nanoelectronics smart displays switchable device modulation health care energy storage solar fuel cells environmental and plant biology social ethical and regulatory implications of various aspects of green nanotechnology as well as significant foreseeable spectroscopic applications of key functional nanomaterials Given appropriate regulation for and research on the topics covered commercial production of manufactured novel composite materials can be realized Furthermore the many discoveries highlighted in the book can modulate spectroscopic performances with technical excellence in multidisciplinary research of high competence **Karl Popper, Science and Enlightenment** Nicholas Maxwell,2017-09-26 Here is an idea that just might save the world It is that science properly understood provides us with the methodological key to the salvation of humanity A version of this idea can be found in the works of Karl Popper Famously Popper argued that science cannot verify theories but can only refute them and this is how science makes progress Scientists are forced to think up something better and it is this according to Popper that drives science forward But Nicholas Maxwell finds a flaw in this line of argument Physicists only ever accept theories that are unified theories that depict the same laws applying to the range of phenomena to which the theory applies even though many other empirically more successful disunified theories are always available This means that science makes a questionable assumption about the universe namely that all disunified theories are false Without some such presupposition as this the whole empirical method of science breaks down By proposing a new conception of scientific methodology which can be applied to all worthwhile human endeavours with problematic aims Maxwell argues for a revolution in academic inquiry to help humanity make progress towards a better more civilized and enlightened world **Life History Evolution** Michal

Segoli, Eric Wajnberg, 2025-03-10 Provides a timely and authoritative account of Life History Evolution by a multidisciplinary team of scholars and researchers from around the world Life History Evolution Traits Interactions and Applications presents a cutting edge synthesis of the mechanisms driving life history strategies that span the breadth of taxa from bacteria to humans Integrating classical and contemporary perspectives this comprehensive volume addresses how organisms evolve traits in response to diverse ecological pressures Editors Michal Segoli and Eric Wajnberg bring together leading experts to explore the intersection of evolutionary biology ecology and applied research focusing on the evolving complexity of life history traits and their implications In depth yet accessible chapters cover a broad spectrum of life history traits from classical traits of lifespan and reproduction to more complex interactions like social behaviour predator prey dynamics and human induced evolutionary processes The contributing authors explain essential concepts identify critical knowledge gaps discuss future research directions and demonstrate the relevance of life history evolution in addressing climate change species invasion pollution and more Providing a well balanced understanding of life history traits and their implications Life History Evolution Incorporates recent advances in evolutionary theory including eco evolutionary feedback loops and anthropogenic impacts Offers diverse perspectives and original research from leading experts in fields such as evolutionary biology ecology entomology zoology agriculture and veterinary medicine Discusses life history evolution in the context of co evolved interactions such as predator prey parasite host plant herbivore and endosymbiont host relationships Provides an overview of the foundational theory recent developments and current thinking in the field Features numerous case studies that highlight real world applications in biological control wildlife management climate change adaptation and others Revealing how life history traits shape the evolutionary strategies of organisms Life History Evolution Traits Interactions and Applications is an essential resource for undergraduate and graduate students researchers industry professionals and policymakers in ecological science It is an ideal textbook for courses in evolutionary ecology evolutionary biology conservation biology environmental science and environmental management

Integrating Social and Behavioral Sciences Within the Weather Enterprise National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Division on Earth and Life Studies, Board on Human-Systems Integration, Board on Environmental Change and Society, Board on Atmospheric Sciences and Climate, Committee on Advancing Social and Behavioral Science Research and Application Within the Weather Enterprise, 2018-02-05 Our ability to observe and forecast severe weather events has improved markedly over the past few decades Forecasts of snow and ice storms hurricanes and storm surge extreme heat and other severe weather events are made with greater accuracy geographic specificity and lead time to allow people and communities to take appropriate protective measures Yet hazardous weather continues to cause loss of life and result in other preventable social costs There is growing recognition that a host of social and behavioral factors affect how we prepare for observe predict respond to and are impacted by weather hazards For example an individual s

response to a severe weather event may depend on their understanding of the forecast prior experience with severe weather concerns about their other family members or property their capacity to take the recommended protective actions and numerous other factors Indeed it is these factors that can determine whether or not a potential hazard becomes an actual disaster Thus it is essential to bring to bear expertise in the social and behavioral sciences SBS including disciplines such as anthropology communication demography economics geography political science psychology and sociology to understand how people s knowledge experiences perceptions and attitudes shape their responses to weather risks and to understand how human cognitive and social dynamics affect the forecast process itself Integrating Social and Behavioral Sciences Within the Weather Enterprise explores and provides guidance on the challenges of integrating social and behavioral sciences within the weather enterprise It assesses current SBS activities describes the potential value of improved integration of SBS and barriers that impede this integration develops a research agenda and identifies infrastructural and institutional arrangements for successfully pursuing SBS weather research and the transfer of relevant findings to operational settings

Sense and Nonsense Gillian R. Brown, Kevin N. Lala, 2024-10-08 Evolutionary theory is one of the most wide ranging and inspiring scientific ideas and it offers a battery of methods that can be used to interpret human behaviour However researchers disagree about the best ways to use evolution to explore humanity and a number of schools of thought have emerged Sense and Nonsense third edition provides an introduction to the ideas methods and findings of five such schools namely sociobiology human behavioural ecology evolutionary psychology cultural evolution and gene culture coevolution In this revised and updated edition of their successful monograph Brown and Lala provide a balanced and rigorous analysis that scrutinises both the evolutionary arguments and the allegations of the critics carefully guiding the reader through the mire of confusing terminology claim and counter claim and polemical statements This readable and informative introductory book will be of use to undergraduate and postgraduate students for example in psychology anthropology and zoology as well as experts on one approach who would like to know more about the other perspectives and lay persons interested in evolutionary explanations of human behaviour Having completed the book the reader will feel better placed to assess the legitimacy of claims made about human behaviour under the name of evolution and to make judgements as to what is sense and what is nonsense

HACCP System Auditing for Food Safety Luis Couto Lorenzo, 2024-08-06 Guide to understand the fundamentals of HACCP and to planning and conducting food safety audits HACCP System Auditing for Food Safety helps readers understand the fundamentals of the HACCP concept and its importance in ensuring food safety with guidance on how to develop auditing skills including planning executing and reporting on HACCP audits effectively To aid in reader comprehension this book incorporates many practical examples with accompanying figures and models along with selected case studies and global practices from Europe Canada USA and New Zealand to showcase international practices and standards ISO 19011 as a standard reference is used throughout the text Written by a seasoned industry professional with

decades of hands on experience as an official control agent HACCP System Auditing for Food Safety includes information on Elements of the HACCP methodology including related concepts adapted to the specificities of the food operator Phases of HACCP study and application of the seven principles respecting their internal logic and how they are interrelated HACCP as a management system starting from the commitment of the management or the company s board of directors with tasks and responsibilities distributed among staff Management system auditing techniques to verify performance whether for internal audits supplier audits or certification purposes Providing the rational and scientific basis necessary to anticipate problems and to learn from the experiences and situations that arise in the food industry HACCP System Auditing for Food Safety is an essential reference for various industry professionals including technicians quality managers consultants auditors and official control agents

Herbal Nutraceuticals Santosh Kumar Upadhyay, Sudhir Pratap Singh, 2024-10-14 Holistic approach to the herbal aspects of nutraceuticals and their implementation in the health and agriculture sectors Herbal Nutraceuticals Products and Processes delivers comprehensive coverage of the herbal aspects of nutraceuticals along with their many applications in the health and agriculture sectors The book begins with an overview of plant based nutraceuticals and the role of plant biotechnology in nutraceutical production Each chapter covers a unique topic related to nutraceuticals and the positive and negative implications associated with each substance discussed The text concludes by addressing safety concerns associated with microalgal nutraceuticals and discussing toxicity evaluation of nutraceuticals overall Written by two academics with significant experience in the field Herbal Nutraceuticals Products and Processes includes information on Significance of nutraceuticals in modern health maintenance and disease prevention and applications of spices in nutraceuticals Antioxidant properties and anti ageing potential of food plants beverages such as herbal wine and nutraceuticals Nutraceuticals with anti diabetic anti inflammatory and anti carcinogenic potentials and sources medicinal properties and applications of carotenoids in food and the nutraceutical industry Nutraceuticals in legumes herbal beverages edible oils conventional and nonconventional fruits staple food crops and pseudocereals Herbal Nutraceuticals Products and Processes is an essential up to date reference on the subject for academics and researchers as well as professionals and research institutions involved in agri biotech product development

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Scope For 2014 Life Science Pand P Introduction

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