



- 1.2.1 Name the type of fertilisation in guppies. (1)
- 1.2.2 Explain TWO ways in which the type of fertilisation named in QUESTION 1.2.1 increases reproductive success. (4)
- 1.2.3 Why are guppies regarded as being ovoviviparous? (2)

1.3 The diagrams below represent organisms with different reproductive strategies.



- 1.3.1 Which diagram(s) (1, 2 or 3) represent(s) organism(s):
- (a) Where external fertilisation takes place (1)
- (b) Where extra-embryonic membranes develop to assist with the protection and nutrition of the embryo (2)

# Life Sciences Paper 1 Grade 12 September 2015

**Xiang Xie**



## **Life Sciences Paper 1 Grade 12 September 2015:**

*When (and How) Theory of Mind Is Useful? Evidences from Research in the Life-Span* Francesca Baglio, Antonella Marchetti, 2017-02-17 Theory of Mind ToM or mentalization is the ability to understand and foresee the behavior referring to one's own and others mental states Premack Wimmer Perner 1983 This capacity which is considered the most representative mechanism of social cognition is a multifaceted set of competences liable to influence and be influenced by a manifold of psychosocial aspects Studies on typical and atypical clinical development during life showed that ToM is frequently delayed e.g. in deafness or impaired in many clinical conditions e.g. Autism Spectrum Disorder Attention Deficit Hyperactivity Disorder Schizophrenia Borderline Personality Disorder Parkinson's Disease Alzheimer's Disease and on the other hand may not be unequivocally a positive experience It is therefore possible to consider the existence of multiple kinds of Theory of Mind In fact ToM may vary along a quantitative and a qualitative continuum As for the quantitative dimension the continuum is constituted by the fluctuation between high and low levels of ToM ability in different clinical conditions Along this continuum impairment can mean not enough ToM for example in Autism Spectrum Disorder as well as too much ToM for example in Schizophrenia and Borderline Personality Disorder The qualitative dimension highly interrelated with the quantitative one regards the shift between adaptive e.g. prosocial nice ToM vs unadaptive e.g. antisocial nasty ToM mental states content The issue is discussed in light of recent evidence from outstanding researchers working on typical and atypical clinical populations along the life span Findings from the fields of psychology neuropsychology and neuroscience enrich the research topic argumentation

The Omega Principle Paul Greenberg, 2018-07-10 By the bestselling author of *Four Fish* and *American Catch* an eye opening investigation of the history science and business behind omega 3 fatty acids the miracle compound whose story is intertwined with human health and the future of our planet Omega 3 fatty acids have long been celebrated by doctors and dieticians as key to a healthy heart and a sharper brain In the last few decades that promise has been encapsulated in one of America's most popular dietary supplements Omega 3s are today a multi billion dollar business and sales are still growing apace even as recent medical studies caution that the promise of omega 3s may not be what it first appeared But a closer look at the omega 3 sensation reveals something much deeper and more troubling The miracle pill is only the latest product of the reduction industry a vast global endeavor that over the last century has boiled down trillions of pounds of marine life into animal feed fertilizer margarine and dietary supplements The creatures that are the victims of that industry seem insignificant to the untrained eye but turn out to be essential to the survival of whales penguins and fish of all kinds including many that we love to eat Behind these tiny molecules is a big story of the push and pull of science and business of the fate of our oceans in a human dominated age of the explosion of land food at the expense of healthier and more sustainable seafood of the human quest for health and long life at all costs James Beard Award winning author Paul Greenberg probes the rich and surprising history of omega 3s from the dawn of complex life when these compounds were

first formed to human prehistory when the discovery of seafood may have produced major cognitive leaps for our species and on to the modern era when omega 3s may point the way to a bold new direction for our food system With wit and boundless curiosity Greenberg brings us along on his travels from Peru to Antarctica from the Canary Islands to the Amalfi Coast to reveal firsthand the practice and repercussions of our unbalanced way of eating Rigorously reported and winningly told The Omega Principle is a powerful argument for a more deliberate and forward thinking relationship to the food we eat and the oceans that sustain us

Sustainability in the Mineral and Energy Sectors Sheila Devasahayam, Kim Dowling, Manoj K. Mahapatra, 2016-09-15 Sustainable practices within the mining and energy sectors are assuming greater significance due to uncertainty and change within the global economy and safety security and health concerns This book examines sustainability issues facing the mining and energy sectors by addressing six major themes Mining and Mineral Processing Metallurgy and Recycling Environment Energy Socioeconomic and Regulatory and Sustainable Materials and Fleets Emphasizing an integrated transdisciplinary approach it deliberates on optimizing mining productivity and energy efficiency and discusses integrated waste management practices It discusses risk management cost cutting and integration of sustainable practices for long term business value It gives a comprehensive outlook for sustainable mineral futures from academic and industry perspectives covering mine to mill optimization waste risk and water management improved efficiencies in mining tools and equipment and performance indicators for sustainable developments It covers how innovation and research underpin management of natural resources including sustainable carbon management Focuses on mining and mineral processing metallurgy and recycling the environment energy socioeconomic and regulatory issues and sustainable materials and fleets Describes metallurgy and recycling and uses economic environmental and social parameter analyses to identify areas for improvement in iron steel aluminium lead zinc copper and gold production Discusses current research on mining performance indicators for sustainable development sustainability in mining equipment risk and safety management and renewable energy resources Covers alternative and conventional energy sources for the mineral sector as well water treatment and remediation and energy sustainability in mining Provides an overview of sustainable carbon management Offers an interdisciplinary approach with international focus

*Women in Science Now* Lisa M. P. Munoz, 2023-10-31 Silver Medal in the Social Change and Social Justice Category 2024 Nautilus Book Awards Women working in the sciences face obstacles at virtually every step along their career paths From subtle slights to blatant biases deep systemic problems block women from advancing or push them out of science and technology entirely Women in Science Now examines solutions to this persistent gender gap offering new perspectives on how to make science more equitable and inclusive for all This book shares stories and insights of women from a range of backgrounds working in various disciplines illustrating the journeys that brought them to the sciences the challenges they faced along the way and the important contributions they have made to their fields Lisa M P Munoz combines these narratives with a wealth of data to illuminate the size and scope of the challenges

women scientists face while highlighting research based solutions to help overcome these obstacles She presents groundbreaking studies in social psychology and organizational behavior that are informing novel approaches for combating historic and ongoing inequities Through a combined focus on personal experiences and social science research this timely book provides both a path toward greater gender equity and an inspiring vision of science and scientists

**Parental well-being** Barbara Holthus, Hans Bertram, 2018-10-17 Pursuing happiness is not only idealistic it is the world's best and perhaps only hope to avoid global catastrophe Global Happiness Policy Report 2018 With that the report argues for happiness as overarching policy goal This volume argues that parental well being is well qualified to assume a central role for governments of industrially advanced nations that are in need of coping with the challenges of low fertility and societal aging More than 4000 mothers and fathers of young children in Germany and Japan have been surveyed in regard to their well being and satisfaction with many aspects related to their work and family lives The volume brings together 13 scholars to analyze this unique dataset The chapters fall into three main parts 1 parenting and childcare 2 self social relatedness and social structures and 3 family policy well being A particular focus lies on the well being of mothers in contrast to fathers The volume uses a multidimensional concept of parental well being with each chapter highlighting one dimension ranging from health education employment and family policy satisfaction to partnership social network and childcare satisfaction National differences are in several aspects superseded by gender class and personality types

**The Schenley Experiment** Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America's oldest public schools

Making College Work Harry J.

Holzer, Sandy Baum, 2017-08-15 Practical solutions for improving higher education opportunities for disadvantaged students Too many disadvantaged college students in America do not complete their coursework or receive any college credential while others earn degrees or certificates with little labor market value Large numbers of these students also struggle to pay for college and some incur debts that they have difficulty repaying The authors provide a new review of the causes of these problems and offer promising policy solutions The circumstances affecting disadvantaged students stem both from issues on the individual side such as weak academic preparation and financial pressures and from institutional failures Low income students disproportionately attend schools that are underfunded and have weak performance incentives contributing to unsatisfactory outcomes for many students Some solutions including better financial aid or academic supports target individual students Other solutions such as stronger linkages between coursework and the labor market and more structured paths through the curriculum are aimed at institutional reforms All students and particularly those from disadvantaged backgrounds also need better and varied pathways both to college and directly to the job market beginning in high school We can improve college outcomes but must also acknowledge that we must make hard choices and face difficult tradeoffs in the process While no single policy is guaranteed to greatly improve college and career outcomes implementing a number of evidence based policies and programs together has the potential to improve these outcomes substantially *High Possibility STEM Classrooms* Jane Hunter, 2020-12-21 This book offers a new research based approach to STEM education in early elementary and middle years of schooling concentrating on building teacher agency and integrated approaches to teaching and learning in High Possibility STEM Classrooms Author Jane Hunter presents a globally oriented contemporary framework for powerful Integrated STEM based on mixed methods research data from three studies conducted in 14 schools in language diverse disadvantaged and urbanized communities in Australia Theory creativity life preparation public learning and contextual accommodations are all utilized to help educators create hands on inquiry led and project based approaches to STEM education in the classroom A set of highly accessible case studies is offered that places pedagogy at the center of practice an approach valuable for researchers school leaders and teachers alike Ultimately this text responds to the call for examples of what successful Integrated STEM teaching and learning looks like in schools The book concludes with an evidence based blueprint for preparing for less siloed and more transdisciplinary approaches to education in schools Hunter argues not only for High Possibility STEM Classrooms but for High Possibility STEM Schools enriching the dialogue around the future directions of STEM STEAM middle leadership technological literacies and assessment within contemporary classrooms Modern Research and Studies in Educational Sciences III Ayşe Gül ÇİRKİNOĞLU ŞEKERCİOĞLU, 2025-03-23

*Women and Politics* Lynne Ford, 2018-05-15 Women and Politics is a comprehensive examination of women s use of politics in pursuit of gender equality How can demands for gender equality be reconciled with sex differences Resolving this paradoxical question has proceeded along two paths the legal equality doctrine which emphasizes gender neutrality and the

fairness doctrine which recognizes differences between men and women The text s clear analysis and presentation of theory and history helps students to think critically about the difficulties faced by women in politics and about how public policies in education labour and the economy and family and fertility impact gender equality The fully revised fourth edition explores new critical perspectives recent political events and current challenges to gender equality including the 2016 presidential election and Hillary Clinton s candidacy the fight for equal pay and paid leave and the debate over reproductive rights and campus sexual assault It also includes current scholarship on the intersections of race class and gender and expanded coverage of minority women women in the military and conservative women This text and its two path framework is essential to understanding women s pursuit of equality via the political system

### **Physical and Health Education in Canada**

Barrett, Joe,Scaini, Carol,2019 Physical and Health Education in Canada Integrated Strategies for Elementary Teachers is a compendium of integrated evidence based approaches to physical and health education teaching from leading physical and health educators and researchers from across Canada

*Policy-Making in the GCC* Neil Quilliam,Mark C.

Thompson,2017-09-11 The GCC is a major player in the post 2011 reordering of the Middle East Despite the rise in prominence of individual Gulf states especially Kuwait Qatar Saudi Arabia and the United Arab Emirates and the growth of the GCC as a collective entity surprisingly little attention has been paid to the actual mechanics of policy making in the region This book analyses the vital role that institutions are coming to play in shaping policy in the Gulf Arab states The research coincides with two key developments that have given institutions new importance in the policy process the emergence of a new generation of leaders in the Gulf and the era of low oil prices Both developments along with dramatic demographic change have compelled state and citizens to re evaluate the nature of the social contract that binds them together Contributors assess the changing relationship between state and citizen and evaluate the role that formal and informal institutions play in mediating such change and informing policy The book shows how academic social and economic institutions are responding to the increasingly complex process of decision making where citizens demand better services and further empowerment and states are obliged to seek wider counsel although wanting to retain ultimate authority With contributions from both academics and practitioners this book will be highly relevant for researchers and policymakers alike

**Handbook of Research on Learning and Instruction** Richard E. Mayer,Patricia A. Alexander,2016-10-04 During the past 30 years researchers have made exciting progress in the science of learning i e how people learn and the science of instruction i e how to help people learn This second edition of the Handbook of Research on Learning and Instruction is intended to provide an overview of these research advances With chapters written by leading researchers from around the world this volume examines learning and instruction in a variety of learning environments including in classrooms and out of classrooms and with a variety of learners including K 16 students and adult learners Contributors to this volume demonstrate how and why educational practice should be guided by research evidence concerning what works in instruction The

Handbook is written at a level that is appropriate for graduate students researchers and practitioners interested in an evidence based approach to learning and instruction The book is divided into two sections learning and instruction The learning section consists of chapters on how people learn in reading writing mathematics science history second language and physical education as well as how people acquire the knowledge and processes required for critical thinking studying self regulation and motivation The instruction section consists of chapters on effective instructional methods feedback examples questioning tutoring visualizations simulations inquiry discussion collaboration peer modeling and adaptive instruction Each chapter in this second edition of the Handbook has been thoroughly revised to integrate recent advances in the field of educational psychology Two chapters have been added to reflect advances in both helping students develop learning strategies and using technology to individualize instruction As with the first edition this updated volume showcases the best research being done on learning and instruction by traversing a broad array of academic domains learning constructs and instructional methods

**Superminds** Thomas W. Malone, 2018-05-15 From the founding director of the MIT Center for Collective Intelligence comes a fascinating look at the remarkable capacity for intelligence exhibited by groups of people and computers working together If you're like most people you probably believe that humans are the most intelligent animals on our planet But there's another kind of entity that can be far smarter groups of people In this groundbreaking book Thomas Malone the founding director of the MIT Center for Collective Intelligence shows how groups of people working together in superminds like hierarchies markets democracies and communities have been responsible for almost all human achievements in business government science and beyond And these collectively intelligent human groups are about to get much smarter Using dozens of striking examples and case studies Malone shows how computers can help create more intelligent superminds simply by connecting humans to one another in a variety of rich new ways And although it will probably happen more gradually than many people expect artificially intelligent computers will amplify the power of these superminds by doing increasingly complex kinds of thinking Together these changes will have far reaching implications for everything from the way we buy groceries and plan business strategies to how we respond to climate change and even for democracy itself By understanding how these collectively intelligent groups work we can learn how to harness their genius to achieve our human goals Drawing on cutting edge science and insights from a remarkable range of disciplines Superminds articulates a bold and utterly fascinating picture of the future that will change the ways you work and live both with other people and with computers

Scientific American, 1893 Monthly magazine devoted to topics of general scientific interest

Writers Editors Critics (WEC) Vol. 6, No. 2 Mahasweta Devi, D. C. Chhabial, 2016-09-01 Writers Editors Critics WEC An International Biannual Refereed Journal of English Language and Literature Volume 6 Number 2 September 2016 ISSN 2231-198X Special Issue a tribute to Indian poet Mahasweta Devi 14 January 1926-28 July 2016 A Poetic Tribute to Mahasweta Devi K V Dominic Mahasweta Devi Death cannot Claim a Valiant Soul Ketaki Datta Mahasweta Devi Fourth World Literature



for Indigenous People An Obituary Ratan Bhattacharjee Charting the Subaltern Terrain The Outsider Insider Mahasweta Devi s Pterodactyl in Perspective Poonam Sahay Aarti to Maha Shakthi P Gopichand P Nagasuseela Mahasweta Devi Voice of the Deprived Millions Manas Bakshi The Mourners of Mahasweta Devi A Critical Analysis of Rudali J Pamela The Subaltern Woman and Woman as Subaltern A Study of 34 Selected Works of Mahasweta Devi Anisha Ghosh Paul A Critical Analysis of Mahasweta Devi s Bharsaa Ramesh Chandra Mukhopadhyaya The Plight of Tribal People in Mahasweta Devi s Shishu Children Writers Editors Critics WEC is a research journal in English literature published from Thodupuzha Kerala India It is the main product of Guild of Indian English Writers Editors and Critics GIEWEC a non profit registered society of Indian English writers English language professors as well as PhD research scholars The publisher is hence GIEWEC itself and editor is its secretary Prof Dr K V Dominic a renowned English language poet critic short story writer and editor who has to his credit 27 books It is truly a refereed journal which has got a screening committee consisting of eminent professors The articles are sent first to the referees by the editor and only if they accept the papers will be published The journal is international in the sense each issue will have contributors from outside India The singularity or specialty of this journal is that it has no thrust area It is hence so accommodative that it publishes papers on all types of literatures including translations from regional languages literary theories communicative English ELT linguistics etc In addition each issue will be rich with poems short stories review articles book reviews interviews general essays etc under separate sections WEC has print version as well as kindle version

*Psychology of Adjustment* John Moritsugu, Elizabeth M. Vera, Jane Harmon Jacobs, Melissa Kennedy, 2016-09-09 Psychology of Adjustment The Search for Meaningful Balance combines a student focus with state of the art theory and research to help readers understand and adjust to life in a context of continuous change challenge and opportunity Incorporating existential and third wave behavioral psychology perspectives the authors emphasize the importance of meaning mindfulness and psychologically informed awareness and skill An inviting writing style examples from broad ethnic cultural gender and geographic areas ample pedagogical support and cutting edge topical coverage make this a psychological adjustment text for the 21st century

**Education Policy** Stephen Gorard, 2018-09-05 What has been done to achieve fairer and more efficient education systems and what more can be done in the future Stephen Gorard provides a comprehensive examination of crucial policy areas for education such as differential outcomes the poverty gradient and the allocation of resources to education to identify likely causes of educational disadvantage among students and lifelong learners This analysis is supported by 20 years of extensive research based in the home countries of the UK and on work in all EU28 countries USA Pakistan and Japan This approachable rich text brings invaluable insights into the underlying problems within education policy and proposes practical solutions for a brighter future

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