

LIFE SCIENCES - PAPER 1- QUICK FIXES

DIFFERENCES BETWEEN MITOSIS AND MEIOSIS

MEIOSIS:	MITOSIS:
• Meiosis involves 2 cell divisions	• Mitosis involves 1 cell division
• Meiosis gives rise to sex cells	• Gives rise to somatic cells
• Cells produced are haploid	• Cells produced are diploid
• Differs according to gender	• Has no gender specification
• 2 phases	• One phase
• 4 daughter cells formed • Half the number of chromosomes to the parent cell • All cells formed are genetically different to each other and parent cell	• 2 daughter cells formed • Same number of chromosomes as parent cell • Genetically identical to each other and parent cell
• Cells responsible for genetic variation in reproduction	• Cells responsible for growth and repair

DIFFERENCES BETWEEN MEIOSIS I AND MEIOSIS II

MEIOSIS 1	MEIOSIS 2
• Crossing over occurs in prophase 1	• No crossing over occurs
• Chromosomes arranged at the equator in homologous pairs in metaphase I	• Chromosomes arranged singly at the equator in metaphase II
• Homologous chromosomes pairs separate	• Sister chromatids separate
• Whole chromosomes are pulled to opposite poles in anaphase I	• Chromatids are pulled to opposite poles in anaphase II
• 2 diploid daughter cells produced	• 4 haploid daughter cells produced

THE IMPORTANCE OF MEIOSIS

- Production of haploid gametes
- The halving effect of meiosis overcomes the doubling effect of fertilisation, thus maintaining a constant chromosome number from one generation to the next
- Mechanism to introduce genetic variation through:
 - Crossing over
 - The random arrangement of chromosomes at the equator

ABNORMAL MEIOSIS

Non-disjunction and its consequences

- Non-disjunction of chromosome pair 21 during Anaphase I in humans to form abnormal gametes with an extra copy of chromosome 21
- The fusion between an abnormal gamete (24 chromosomes) and a normal gamete (23 chromosomes) may lead to Down syndrome

November 2013 Life Sciences Paper 1 Grd11

Marsha Garrison



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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

Foundation of Digital Badges and Micro-Credentials Dirk Ifenthaler, Nicole Bellin-Mularski, Dana-Kristin Mah, 2016-06-29 This edited volume provides insight into how digital badges may enhance formal non formal and informal education by focusing on technical design issues including organizational requirements learning and instructional design as well as deployment It features current research exploring the theoretical foundation and empirical evidence of the utilization of digital badges as well as case studies that describe current practices and experiences in the use of digital badges for motivation learning and instruction in K 12 higher education workplace learning and further education settings

Literacy and the Common Core Sarah Tantillo, 2014-07-23 Tools and Insights for Meeting and Exceeding the Common Core Standards Literacy and the Common Core offers K 12 teachers clear guidance on how to design units lessons and objectives to meet the Common Core State Standards in English Language Arts it s filled with practical strategies that teachers can use immediately to target key standards and it describes how to analyze the standards to support instructional planning and curriculum development This book aims to make life a little easier for everyone teachers school leaders parents and students as we all strive to prepare students for college and the careers they most desire The book includes practical tools templates and rubrics ready to be downloaded and customized to meet your needs Additional resources may be found on the companion site www.literacycookbook.com Here are just a few of the essential topics addressed Which standards to start with and how to tackle them How to bridge the gap when students are not on grade level How to engage and support parents How to teach students to write effectively How to translate the standards for actual use Take the recipes in this book make them your own and enjoy your new Common Core Master Chef status

Family Life,

Family Law, and Family Justice Marsha Garrison, 2022-10-28 *Family Life* Family Law and Family Justice Tying the Knot combines history social science and legal analysis to chart the evolution and interdependence of family life and family law portray current trends in family life explain the pressing policy challenges these trends have produced and analyze the changes in family law that are essential to meeting these challenges The challenges are large and pressing Across the industrialized West nonmarital birth relational stress multi partner fertility and relationship dissolution have increased producing a dramatic rise in single parenthood poverty and childhood risk This concentration of familial and economic risk accelerates socioeconomic inequality and retards intergenerational mobility Although the divide is most pronounced in the United States the same patterns now affect families throughout the Western world Across the European Union there are 9.2 million lone parents and just under half of their families live in poverty Tying the Knot demonstrates how today's family patterns are deeply rooted in long standing class based differences in family life and explains why these class based differences have accelerated It explains how the values that guide family law development inevitably reflect the world in which families live and develops a new family law capable of meeting the needs of twenty first century families The book will be of considerable interest to family specialists from a number of fields including law demography economics history political science public health social policy and sociology

Hosting States and Unsettled Guests Jennifer Riggan, Amanda Poole, 2024-02-06 As wealthy countries build walls to keep migrants out countries in the Global South are celebrated for their hospitality towards refugees *Hosting States and Unsettled Guests* asks the question did these policies enable refugees to consider their new country home Beginning in 2016 Ethiopia promoted local integration economic opportunities and access to education for refugees in order to encourage them to stay long term rather than migrate towards Europe But by 2020 a political overhaul and the outbreak of war in Northern Ethiopia foreclosed these opportunities particularly for Eritrean refugees in Ethiopia How did Eritrean refugees envision their future in light of the discrepancy between promising policies and ongoing instability Using ethnographic interviews and participant observation with government officials NGOs and refugees in three camps in northern Ethiopia and Addis Ababa Jennifer Riggan and Amanda Poole explore refugee notions of progress care hope and futurity Caught at the intersection of teleological violence and temporal agency refugees endure the present and tenaciously produce a sense of the future even when their efforts to progress are repeatedly challenged An important read *Hosting States and Unsettled Guests* makes key empirical and theoretical contributions in forced migration studies East African studies anthropology and international education Riggan and Poole deftly shift the focus of refugee studies away from Europe to regions in the Global South to understand the violence of emerging forms of migration deterrence

Quality education Muchativugwa L. Hove, Martha Matashu, 2021-11-30 This book investigates the intersections between education social justice gendered violence and human rights in South African schools and universities The rich and multifarious tapestry of scholarship and literature emanating from South African classrooms provides a

fascinating lens through which we can understand the complex consequences of the economies of education social justice imperatives gendered violence in the lives of women and children and marginalised communities The scholarship in the book challenges readers to imagine alternative futures predicated on the transformational capacity of a democratic South Africa Contributors to this volume examine the many ways in which social justice and gendered violence mirror express project and articulate the larger phenomenon of human rights violations in Africa and how in turn the discourse of human rights informs the ways in which we articulate interrogate conceptualise enact and interpret quality education The book also wrestles with the linguistic contradictions and ambiguities in the articulation of quality education in public and private spaces This book is essential reading for scholars seeking a solid grounding in exploring quality education the instances of epistemic disobedience the political implications of place and power and human rights in theory and practice

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