



# Summaries SA

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Life sciences

Grade 10

Examiner: Mr N. Kooze

Date: MARCH 2024

Time: 1 hour 30 minutes

Total: 75

## SECTION A

### QUESTION 1

1.1 Different options are given as possible answers for the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.5) on the FOUO PAPER e.g. 1.1.1 E.

1.1.1 A group of different populations living together in a specific area.

- A. Population.
- B. Community.
- C. Habitat.
- D. Ecosystem.

1.1.2 Direction in which a surface faces.

- A. Gradient.
- B. Aspect.
- C. Height.
- D. Edaphic.

1.1.3 Which letter is not soil characteristics.

- A. pH
- B. Texture.
- C. Air content.
- D. Wind.

1.1.4 Part of the biotic factors of a springbok will be

- A. the place where it lives.
- B. the grass it eats.
- C. the reproduction rates.
- D. the amount of water they drink.

1.1.5 Atmospheric gases consist of

- A. 78% nitrogen, 21% oxygen and 0.04% CO<sub>2</sub>.
- B. 78% nitrogen, 21% oxygen and 0.02% CO<sub>2</sub>.
- C. 79% nitrogen, 20% oxygen and 0.01% CO<sub>2</sub>.
- D. None of the above.

[5]

1.2 Give the correct biological term for each of the following descriptions.

Write down only the term next to the question number. (1.2.1 to 1.2.5) on your FOUO PAPER.

1.2.1 Each step in a food chain or food web.

1.2.2 Total amount of living tissue in a trophic level.

1.2.3 Needed for movement, growth and reproduction.

1.2.4 Range of organisms that each rely on the previous one as a food source.

1.2.5 Removal of solid waste through the anus.

[5 × 2 = 10]

1.3 Indicate whether each of the statements in COLUMN I applies to ONLY A, ONLY B, BOTH A AND B or NONE of the items in COLUMN II. Write ONLY A, ONLY B, BOTH A AND B or NONE next to the question number (1.3.1 to 1.3.5) on the FOUO PAPER.

# March 2014 Life Science Paper Grade10

**Hava E. Vidergor, Carole Ruth Harris**



### **March 2014 Life Science Paper Grade10:**

The Best Class You Never Taught Alexis Wiggins, 2017-09-27 The best classes have a life of their own powered by student led conversations that explore texts ideas and essential questions In these classes the teacher s role shifts from star player to observer and coach as the students Think critically Work collaboratively Participate fully Behave ethically Ask and answer high level questions Support their ideas with evidence and Evaluate and assess their own work The Spider Web Discussion is a simple technique that puts this kind of class within every teacher s reach The name comes from the weblike diagram the observer makes to record interactions as students actively participate in the discussion lead and support one another s learning and build community It s proven to work across all subject areas and with all ages and you only need a little know how a rubric and paper and pencil to get started As students practice Spider Web Discussion they become stronger communicators more empathetic teammates better problem solvers and more independent learners college and career ready skills that serve them well in the classroom and beyond Educator Alexis Wiggins provides a step by step guide for the implementation of Spider Web Discussion covering everything from introducing the technique to creating rubrics for discussion self assessment to the nuts and bolts of charting the conversations and using the data collected for formative assessment She also shares troubleshooting tips ideas for assessment and group grading and the experiences of real teachers and students who use the technique to develop and share content knowledge in a way that s both revolutionary and truly inspiring

**Applied Practice for Educators of Gifted and Able Learners** Hava E. Vidergor, Carole Ruth Harris, 2015-07-21 This book is a comprehensive study and guide for the classroom teacher the gifted program coordinator and the graduate student who are challenged daily to provide for individual children who differ markedly but come under the umbrella of giftedness It serves as a wellspring that derives from theory while it offers practical application of theoretical construct in a wide variety of international settings from leaders in the field who demonstrate implementation of proven and field tested techniques and alternative scenarios to accommodate every classroom situation Contributors are internationally recognized experts who have come together to provide a sound reliable source for teachers of the gifted that will be utilized time and time again by practitioners and researchers alike Among internationally renowned scholars are Joyce Van Tassel Baska Susan Johnsen June Maker Belle Wallace Linda Kreger Silverman Dorothy Sisk Gillian Eriksson Miraca Gross Gilbert Clark Enid Zimmerman and Rachel McAnallen Hava E Vidergor Ph D is lecturer of innovative pedagogy and curriculum design at Gordon Academic College and Arab Academic College of Education and holds a Ph D in Learning Instruction and Teacher Education with specialization in Gifted Education from the University of Haifa Israel Carole Ruth Harris Ed D formerly Director of G A T E S Research Evaluation is a consultant in education of the gifted in Central Florida who holds the doctorate from Columbia University where she studied with A Harry Passow and A J Tannenbaum She has served as Associate in International Education at Harvard University Research Associate at Teachers College Columbia University

lecturer at University of Massachusetts Lowell and University of Hawaii Principal Investigator at Research Corporation of the University of Hawaii and Director of the Center for the Gifted in Ebeye Marshall Islands *The Post-Pandemic Liberal Arts College* Steve Volk, Beth Benedix, 2020-12-08 A succinct and impassioned call to reimagine and revive the small liberal arts college by two veteran educators Private liberal arts colleges have struggled for decades now as the COVID 19 pandemic widens cracks latent in many American institutions they are facing a possibly mortal crisis In *The Post Pandemic Liberal Arts College A Manifesto for Reinvention* Steven Volk and Beth Benedix call for small colleges to seize this moment and reinvent themselves With the rise of rankings that set peer institutions against each other tuition that outpaces income creeping pre professionalism and a race to build student customers the splashiest new amenities many private liberal arts colleges have strayed from their founders missions If they could shed the mantle of exclusivity reduce costs facilitate true social mobility and collaborate with each other the authors argue they might both survive and again become just equitable accessible institutions able to offer the transformative and visionary education that is their hallmark Educators students parents and anyone invested in the future of higher education should read this book [Stimulating Emerging Story Writing!](#) Simon Brownhill, 2015-10-16 *Stimulating Emerging Story Writing Inspiring Children aged 3 7* offers innovative and exciting ways to inspire young children to want to create stories and develop their emerging story writing skills This practical guide offers comprehensive and informed support for professionals to effectively engage child authors in stimulating story writing activities Packed full of story ideas resource suggestions and practical activities the book explores the various ways professionals can help young children to develop the six key elements of story these being character setting plot conflict resolution and ending All of the ideas in the book are designed to support a setting s daily writing provision such as mark making opportunities role play and using simple open ended play resources Separated into two sections and with reference to the EYFS and Key Stage 1 curricula this timely new text provides practitioners with tried and tested strategies and ideas that can be used with immediate effect Chapters include Creating Characters The Plot Thickens Inspired Ideas Resourcing the Story Stimulation This timely new text is the perfect guide for inspiring young children aged 3 7 in the classroom and will be an essential resource for practitioners teachers and students on both early years and teacher training courses

**Sustaining Human Progress** Khalid Malik, 2014 Most people in most countries have been steadily better in human development Advances in technology and incomes hold ever greater for longer healthier more secure lives **Alternative Models of Addiction** Hanna Pickard, Serge H. Ahmed, Bennett Foddy, 2015-12-07 For much of the 20th century theories of addictive behaviour and motivation were polarized between two models The first model viewed addiction as a moral failure for which addicts are rightly held responsible and judged accordingly The second model in contrast viewed addiction as a specific brain disease caused by neurobiological adaptations occurring in response to chronic drug or alcohol use and over which addicts have no choice or control As our capacity to observe neurobiological phenomena improved the second model

became scientific orthodoxy increasingly dominating addiction research and informing public understandings of addiction More recently however a dissenting view has emerged within addiction research based partly on new scientific research and partly on progress in philosophical and psychological understandings of relevant mental phenomena This view does not revert to treating addiction as a moral failure but nonetheless holds that addictive behaviour is fundamentally motivated by choice and subject to at least a degree of voluntary control On this alternative model of addiction addictive behaviour is an instrumental means to ends that are desired by the individual although much controversy exists with respect to the rationality or irrationality of these ends the degree and nature of the voluntary control of addictive behaviour and motivation the explanation of the difference between addictive and non addictive behaviour and motivation and lastly the extent to which addictive behaviour and motivation is correctly characterised as pathological or diseased This research topic includes papers in the traditions of neuroscience psychology philosophy law and social science that explore alternative understandings of addiction

*The Times Index* ,2011 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement

**Farmers' Review** ,1886 **The Commercial and Financial Chronicle** ,1960 Canadian Books in Print ,1983 Science and Invention ,1923 **Industrial Development Report** United Nations Publications,2016-01-14 This report looks at how technology and innovation achieves inclusive and sustainable industrial development ISID Its main finding is that ISID is feasible and technology can simultaneously serve all three dimensions of sustainability including economic social and environmental Rapid inclusive and sustainable industrialization can happen more frequently provided that policymakers firmly steer the industrialization process with opportune policies and avoid past mistakes In some cases the spread of technology has not materialized in concrete growth opportunities because of the lack of technological capabilities Innovation needs to be supported by interventions strengthening the process from invention to adoption as capabilities are developed and high tech manufacturing sectors are created seeing higher rates of sustainable growth

*The Web of Geological Sciences* Marion Eugene Bickford,2017 The web of geological sciences Special papers 500 and 523 written in celebration of the 125th anniversary of the Geological Society of America National Stockman and Farmer ,1906 **Metals Abstracts** ,1995 **Current Law Index** ,1999 El-Hi Textbooks and Serials in Print ,1995 R R Bowker Publishing,1995-02 *GEO Year Book* ,2006 Overview of major global and regional environmental issues and development that shaped policy decisions and actions during the course of the year Emerging challenges new findings presenting scientific progress made in the year that may assist society in recognizing and better understanding emerging environmental issues and help decision makers in designing adequate responses GEO indicators highlighting some of the key global and regional environmental issues and trends that have been identified in GEO reports *The College Handbook* ,1987

**Who's Who in Science and Engineering 2008-2009** Who's Who Marquis,Marquis Who's Who,2007-12

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