

# AQA A-LEVEL BIOLOGY COMPLETE MARK SCHEME BANK

## YEAR 1 SPECIFICATION CODE 3.1 – 3.4

Specification Code	Question	Mark Scheme
2.1.1 Monomers and Polymers	What is hydrolysis?	<ol style="list-style-type: none"> <li>1. Breaks a chemical bond between two molecules,</li> <li>2. Using water,</li> </ol>
3.1.2 Carbohydrates	<b>Glycogen</b> - Glycogen Structure (3)	<ol style="list-style-type: none"> <li>1. Polysaccharide of <math>\alpha</math>-glucose,</li> <li>2. (joined by) glycosidic bonds,</li> <li>3. Branched structure,</li> </ol>
	<b>Glycogen</b> - Glycogen compared with cellulose (4)	<ol style="list-style-type: none"> <li>1. Cellulose is made up of <math>\beta</math>-glucose (monomers) <b>and</b> glycogen is made up of <math>\alpha</math>-glucose (monomers),</li> <li>2. Cellulose molecule has straight chain <b>and</b> glycogen is branched,</li> <li>3. Cellulose molecule has straight chain <b>and</b> glycogen is coiled,</li> <li>4. Glycogen has 1,4- and 1,6- glycosidic bonds <b>and</b> cellulose has only 1,4- glycosidic bonds,</li> </ol>

# June 2013 Biology Isa Mark Scheme

**Richard Bailey**



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*New Observations on the Behavior, Ecology, and Biology of Sharks and Rays* Austin Gallagher, Emily Lester, Brendan Shea, 2025-08-28 Sharks and rays are a group of ancient ecologically important and highly threatened fishes. Their large size, high mobility, and diversity allow for the assessment of the structure and function of large expanses of the ocean while making them a unique model for assessing how species respond to human-induced changes such as climate change. Despite the notion that many aspects of their biology and ecology remain poorly understood, access to this information has never been greater due to the rapid development of emerging technologies and approaches to study sharks and rays in virtually all areas of the ocean from shallow reefs to deep trenches. As the global research effort on sharks and rays continues to expand annually, we are also increasing the likelihood of making novel behavioral, physiological, or molecular discoveries, as is the potential to expand or refine known correlates of their biology or ecology. These exciting observations shed light on future research efforts and aid in adaptive management and conservation.

Neuroscience: Exploring the Brain, Enhanced Edition Mark Bear, Barry Connors, Michael A. Paradiso, 2020-03-25 Acclaimed for its clear, friendly style, excellent illustrations, leading author team, and compelling theme of exploration, *Neuroscience: Exploring the Brain*, Fourth Edition, takes a fresh, contemporary approach to the study of neuroscience, emphasizing the biological basis of behavior. The authors' passion for the dynamic field of neuroscience is evident on every page, engaging students and helping them master the material. In just a few years, the field of neuroscience has been transformed by exciting new technologies and an explosion of knowledge about the brain. The human genome has been sequenced; sophisticated new methods have been developed for genetic engineering, and new methods have been introduced to enable visualization and stimulation of specific types of nerve cells and connections in the brain. The Fourth Edition has been fully updated to reflect these and other rapid advances in the field while honoring its commitment to be student-friendly with striking new illustrations.

Occasional Papers of the California Academy of Sciences, 2013

**Documentation Abstracts**, 1971

**Deep-Sea Mining and the Water Column** Rahul Sharma, 2024-06-26 This book focuses on general issues of deep-sea mining for seafloor mineral deposits as well as the scientific, technical, legal, and policy issues related to impacts on the water column. The topic is a growing area of significance due to the ongoing conversations on this issue in the world community in view of the large-scale consequences resulting from operations of different components of deep-sea mining systems. The chapters are divided into five sections and are contributed by highly acclaimed scientists, technologists, lawyers, and administrators who have decades of experience working on these topics. The information compiled in the book is expected to serve as an important reference for all stakeholders, including researchers, contractors, mining companies, regulators, and NGOs involved in deep-sea mining and marine environmental conservation. Section 1 provides an overall view of the current status of deep-sea mining and issues related to the water column. Section 2 looks at the engineering considerations for technology related to mining/handling of bulk solids in the marine environment.

transporting the ores from seabed to shore as well as processing of deep sea minerals Section 3 discusses various approaches for assessment of impacts of deep sea mining on the water column Section 4 assesses the chemical physical and biological characteristics of the water column in different oceans of the world Finally section 5 deals with legal policy and economic aspects of deep sea mining

**Fractal Sustainability** Isabel Canto de Loura, Robin Dickinson, 2016-08-12 Even though the fractal approach to sustainability and organizational change management is not new no authors so far seem to have truly attempted to use fractals as a mathematical means to map and measure organizational sustainability Several sustainability maturity models and change management models and frameworks concepts and computer generated systems came to the fore during the past two decades They provided a set of useful tools for managers academics and students to refer to or on which to base their own actions and plans However one issue remains most of those models and frameworks share a rather similar linear skeleton the main difference between them is the quantitative variety of steps within each phase stage and parameter and how in depth each of these is presented The authors work addresses a clear gap in the literature and in applied research as it emphasizes the relevance of using a complex mathematically based but user friendly fractal approach Readers are able to better understand implement map and measure change management processes leading to a sustainability focused mindset Subsequent chapters guide you through the steps towards creating committed sustainability based strategies attitudes actions and practices across all levels in the broad organizational context This text is essential reading for students researching business and management and who are interested in the Fractal Sustainability concept

**Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)** Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events

**13+ Science Level 2 Biology Mark Scheme (Summer Term 2013)** Iseb Iseb, 2013-03-21

*13+ Science Level 2 Biology Mark Scheme (Spring Term 2013)* Iseb Iseb, 2012-12-01      *Annuaire Des Organisations Internationales* ,      *13+ Science Level 2 Biology Mark Scheme (Autumn Term 2013)* Iseb Iseb, 2013-09-26

**13+ Science Biology Mark Scheme (Summer Term 2011)** Iseb Iseb, 2011-06-15      **13+ Science Biology Mark Scheme (Summer Term 2012)** Iseb Iseb, 2012-06-08      **13+ Science Biology Mark Scheme (Summer Term 2009)** Iseb Iseb, 2009-06-08

**13+ Science Level 2 Biology Mark Scheme (Summer Term 2014)** Iseb Iseb, 2014-03-28      **13+ Science Biology Mark Scheme (Spring Term 2011)** Iseb Iseb, 2011-02-04      *13+ Science Biology Mark Scheme (Summer Term 2010)* Iseb Iseb, 2010-06-21      *13+ Science Level 2 Biology Mark Scheme (Spring Term 2014)* Iseb Iseb, 2013-11-29      *13+ Science Biology Mark Scheme (Spring Term 2012)* Iseb Iseb, 2012-01-12      **13+ Science Level 2 Biology Mark Scheme (Summer Term 2015)** Iseb Iseb, 2015-02-02

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