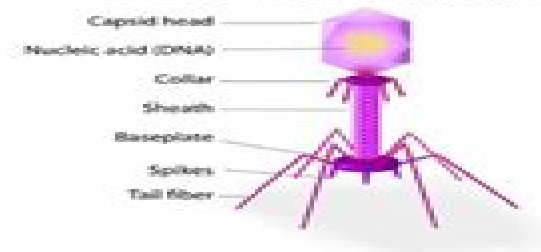


LIFE SCIENCE NOTES TERM 1 +2

MICRO ORGANISMS

Basic structure of viruses:

Structure of bacteriophage



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A bacteria has an inner core of either DNA or RNA. Some viruses with RNA, such as HIV, are called retroviruses. The nucleic acid is surrounded by an outer protein coat or capsule, which protects the viral genetic material. Viruses have no cytoplasm and have no membrane bound organelles.

Viruses have the following characteristics:

- Viruses are acellular as they are not complete cells
- Viruses are extremely small and can only be seen using an electron microscope.
- Viruses have many different shapes.
- Viruses do not perform any of the metabolic reactions of living organisms.
- Viruses cannot reproduce unless they invade a host cell.
- Viruses are parasitic on plants, animals, protists and bacteria.
- Viruses have the ability to assemble themselves
- Most viruses are pathogens as they cause disease.

BACTERIA:

Basic structure of bacteria:

Bacteria are unicellular organisms that are classified as prokaryotes. This means they do not contain membrane bound organelles such as nucleus, chloroplast etc. Their DNA floats freely in the cytoplasm. The cell wall is lined with a cell membrane and often covered by a slime capsule to prevent it from drying out. In many pathogenic bacteria the slime capsule also serves as a barrier against phagocytes. Some bacteria have flagella that are used for locomotion. Bacteria also have hollow, hair like structures called pili that are used to attach to other cells.

Bacteria have the following characteristics:

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**William Dwight Whitney, Benjamin Eli
Smith**



Paper1 Life Science Exemplar For Grade 11:

Resources in Education ,1991-08 Research in Education ,1971-12 Developing Models in Science Education J.K. Gilbert,C. Boulter,2012-12-06 Models and modelling play a central role in the nature of science in its conduct in the accreditation and dissemination of its outcomes as well as forming a bridge to technology They therefore have an important place in both the formal and informal science education provision made for people of all ages This book is a product of five years collaborative work by eighteen researchers from four countries It addresses four key issues the roles of models in science and their implications for science education the place of models in curricula for major science subjects the ways that models can be presented to are learned about and can be produced by individuals the implications of all these for research and for science teacher education The work draws on insights from the history and philosophy of science cognitive psychology sociology linguistics and classroom research to establish what may be done and what is done The book will be of interest to researchers in science education and to those taking courses of advanced study throughout the world

Connecting People to Their Oceans: Issues and Options for Effective Ocean Literacy Angel Borja,Francesca Santoro,Gail Scowcroft,Stephen Fletcher,Pierre Strosser,2020-03-25 While there is growing evidence of the importance of marine ecosystems for our societies evidence shows also that pressures from human activities on these ecosystems are increasing putting the health of marine ecosystems at stake worldwide Hence Blue Economy is becoming an important component of future socio economic development strategies e g this is called Blue Growth in Europe that eventually can result in increasing pressures at sea and despite the current regulatory framework in particular with the Oceans Act in USA or Canada and the Marine Strategy Framework Directive in Europe it is likely that this situation will continue in the future Ensuring all those connected to the sea directly or indirectly gain a better understanding of the importance of the seas the human sea interactions and opportunities to act better and reduce impacts from human pressures is central to Ocean Literacy OL Receiving increasing attention in Europe and USA OL is a challenge for all parts of society educators 2 the role OL could play in interaction with innovation regulation economic incentive social norms to support human capital development as key component of sustainable growth and 3 pre conditions for effective OL for different sectors and target groups Questions relevant to OL include Which knowledge produced by whom to share and how Who to target and how to effectively reach those targeted How to design OL initiatives including by mobilizing those targeted via living lab approaches e g to ensure effective OL and pave the way for behavior change What are the knowledge gaps that limit our capacity to design effective OL As scientists it is likely you have many more questions to offer and discuss Resources in Education ,1997 **Teaching to Change the World** Jeannie Oakes,Martin Lipton,Lauren Anderson,Jamy Stillman,2018-01-29 Teaching to Change the World is an up to the moment engaging social justice oriented introduction to education and teaching and the challenges and opportunities they present Both foundational and practical the chapters are organized

around conventional topics but in a way that consistently integrates a coherent story that explains why schools are as they are Taking the position that a hopeful democratic future depends on ensuring that all students learn the text pays particular attention to inequalities associated with race social class language gender and other social categories and explores teachers role in addressing them This thoroughly revised fifth edition remains a vital introduction to the profession for a new generation of teachers who seek to become purposeful knowledgeable practitioners in our ever changing educational landscape for those teachers who see the potential for education to change the world Features and Updates of the New Edition Fully updated Chapter 1 The U S Schooling Dilemma reflects our current state of education after the 2016 U S presidential election First person observations from teachers including first year teachers continue to offer vivid authentic pictures of what teaching to change the world means and involves Additional coverage of the ongoing effects of Common Core highlights the heated public discourse around teaching and teachers and charter schools Attention to diversity and inclusion is treated as integral to all chapters woven throughout rather than tacked on as separate units Digging Deeper resources on the new companion website include concrete resources that current and future teachers can use in their classrooms Tools for Critique provides instructors and students questions prompts and activities aimed at encouraging classroom discussion and particularly engaging those students least familiar with the central tenets of social justice education

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