

biology

Scope and Sequence



Includes NGSS

TOPIC	STANDARDS	TIME (DAYS)
BIOCHEMISTRY	Enzymes, Metabolism, Nutrition	5
	Organic Compounds	5
CELL ORGANELLES	Cell Structure	5-6
	Cell Organelles	5-6
CELL TRANSPORT	Cell Membranes	5-6
	Transport Mechanisms	5-6
TOPIC	STANDARDS	TIME (DAYS)
CELL DIVISION	Cell Division	5-6
GENE AND PROTEIN SYNTHESIS	Gene Expression	5-6
MUTATIONS	Mutations	5-6

STANDARD	UNIT	TOPICS	TIME (DAYS)
HS-LS2	ECOSYSTEMS, ENERGY, DYNAMICS	1. Carrying Capacity 2. Factors affecting biodiversity among varying ecological levels 3. Biomes (Assemblage, regeneration, cycling of matter, energy flow) 4. Succession (Energy flow)	5-6 3 5-6 6-7

STANDARD	UNIT	TOPICS	TIME (DAYS)
HS-LS1	FROM MOLECULES TO ORGANISMS	1. Protein synthesis 2. Cells, Tissues (Organization) 3. Homeostasis and cell transport	5-6 3-4 6-7

STANDARD	UNIT	TOPICS	TIME (DAYS)
MS-LS4	BIOLOGICAL EVOLUTION, UNITY AND DIVERSITY	1. Fossil Record as evidence for shaping the life forms throughout the history of the Earth 2. Anatomical similarities among fossil organisms and modern organisms - evolutionary relationships and homologies 3. Patterns in embryology to identify species 4. Genetic variation is crucial for survival of a species 5. Artificial selection and genetic modification effects - human impact 6. Mathematical models and	5-6 5-6 3-4 6-8 6-8 5-7

STANDARD	UNIT	TOPICS	TIME (DAYS)
MS-LS2	ECOSYSTEMS, INTERACTIONS, ENERGY AND DYNAMICS	1. Resource availability rates and effect upon populations 2. Interactions among ecosystems 3. Energy and Matter Flow/ Cycling 4. Factors that change ecosystems 5. Pathways to maintain biodiversity (positively affect ecosystems)	5-8 5-6 8-10 4-6 5-8

Ngss High School Biology Scope And Sequence

Scott C. Dulebohn



Ngss High School Biology Scope And Sequence:

ENC Focus ,2001 Rigor and Reproducibility in Genetics and Genomics ,2023-11-08 Rigor and Reproducibility in Genetics and Genomics Peer reviewed Published Cited provides a full methodological and statistical overview for researchers clinicians students and post doctoral fellows conducting genetic and genomic research Here active geneticists clinicians and bioinformaticists offer practical solutions for a variety of challenges associated with several modern approaches in genetics and genomics including genotyping gene expression analysis epigenetic analysis GWAS EWAS genomic sequencing and gene editing Emphasis is placed on rigor and reproducibility throughout with each section containing laboratory case studies and classroom activities covering step by step protocols best practices and common pitfalls Specific genetic and genomic technologies discussed include microarray analysis DNA seq RNA seq Chip Seq methyl seq CRISPR gene editing and CRISPR based genetic analysis Training exercises supporting data and in depth discussions of rigor reproducibility and ethics in research together deliver a solid foundation in research standards for the next generation of genetic and genomic scientists Provides practical approaches and step by step protocols to strengthen genetic and genomic research conducted in the laboratory or classroom Presents illustrative case studies and training exercises discussing common pitfalls and solutions for genotyping gene expression analysis epigenetic analysis GWAS genomic sequencing and gene editing among other genetic and genomic approaches Examines best practices for microarray analysis DNA seq RNA seq gene expression validation Chip Seq methyl seq CRISPR gene editing and CRISPR based genetic analysis Written to provide trainees and educators with highly applicable tools and strategies to learn or refine a method toward identifying meaningful results with high confidence in their reproducibility **Research in Education** ,1968-07 **Resources in Education** ,1997-07 **Proceedings [of The] Third International History, Philosophy, and Science Teaching Conference, Minneapolis, Minnesota, October 29 - November 1, 1995** ,1995 *Handbook of Research on Teacher Education* John P. Sikula, Association of Teacher Educators, 1996 The first edition of this text sought to provide a basis for improving the education of teachers at every level Committed to the idea that the betterment of teacher education is essential to the improvement of schools it provided understanding of the research so that professionals could compare evaluate and create effective programmes **Otto E. Miller, Plaintiff-Respondent, Against Fred W. Smythe, Defendant-Appellant** , **The New Encyclopaedia Britannica: Macropaedia (19 v.)** ,1983 **Molecular Biology of the Cell** ,2001 *General Catalog -- University of California, Santa Cruz* University of California, Santa Cruz, 1993 **Applied and Environmental Microbiology** ,2007 **Abstracts of Instructional Materials in Vocational and Technical Education** ,1972 **Science** John Michels (Journalist), 2003 A weekly record of scientific progress *Ecological Society of America ... Annual Meeting Abstracts* Ecological Society of America. Meeting, 2004 **Truth Seeker** ,1925 **The Independent** ,1889-07 **Perceptual cognitive development** ,1970-02 Index Veterinarius ,2006 **B.A.S.I.C.** ,1969 **Index to**

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