

MCS Zoology Subject Group Overview

Unit Name	Unit 1: Survey of Phylum Chordata	Unit 2: Survey of the animal kingdom: Invertebrate	Unit 3: Evolutionary History of Animals	Exams/ Review
-----------	-----------------------------------	--	---	---------------

Time Frame	11 weeks	13 weeks	11 weeks	
Standards/ IB Topics	SZ3 a, b, c, d SZ4 a, b, c SZ5 a, b, c	SZ3 a, b, c, d SZ4 a, b, c SZ5 a, b, c	SZ1 a, b, d SZ2 a, b, c	Assessments
Content Specific Information (texts, documents, methods)	<p>Statement of Inquiry Animal diversity is influenced by human activities.</p> <p>Phenomenon: Humans share many structures with other vertebrate classes</p> <p>Crosscutting Concepts</p> <ul style="list-style-type: none"> ● Systems and Systems Model ● Stability and Change ● Scale, Proportion, and Quantity ● Cause and Effect ● Patterns <p>CORE IDEAS</p> <ul style="list-style-type: none"> ● Distinguishing characteristics of animal groups with emphasis on evolution of transitional body structures and comparison of body systems as well as human and animal interactions, 	<p>Statement of Inquiry Animal form and function within invertebrate animal phyla and across key taxa influence how animals interact with their environment.</p> <p>Phenomenon: Animal variety in form and function is still a field of discovery.</p> <p>Crosscutting Concepts</p> <ul style="list-style-type: none"> ● Systems and Systems Model ● Stability and Change ● Scale, Proportion, and Quantity ● Cause and Effect ● Patterns <p>CORE IDEAS</p> <ul style="list-style-type: none"> ● Distinguishing characteristics of animal groups with emphasis on evolution of transitional body structures and comparison of body systems as well as human and animal interactions, 	<p>Statement of Inquiry The geological history of Earth has influenced the form and function of organisms through geologic time.</p> <p>Phenomenon: Fossils from the Cambrian have representatives of almost all animal groups identified today.</p> <p>Crosscutting Concepts</p> <ul style="list-style-type: none"> ● Stability and Change ● Scale, Proportion, and Quantity ● Structure & Function ● Cause & Effect ● Patterns <p>CORE IDEAS</p> <ul style="list-style-type: none"> ● Characteristics of Animals; Classification and Taxonomy; Earth History; Evolution 	<p>Unit 1: Several quizzes; projects and activities to research diversity of vertebrate animals, conservation, and data evaluation activities. Lab activities include dissections of representative animals.</p> <p>Unit 2: Several quizzes; Species profiles projects; Claim –Evidence-Reasoning Best Invertebrate as well as data evaluation activities based on current research. Lab activities include dissections of representative animals.</p> <p>Unit 3: Two quizzes; Adaptation focused project; Identification activities,</p>

MCS Zoology Subject Group Overview

Unit Name	Unit 1: Survey of Phylum Chordata	Unit 2: Survey of the animal kingdom: Invertebrate	Unit 3: Evolutionary History of Animals	Exams/ Review
Common Assessments/ Major Projects	SEP <ul style="list-style-type: none"> ● Asking Questions and Defining Problems ● Develop & Using Models ● Constructing Explanations ● Obtaining, evaluating, and communicating information ● Carry out Investigations ● Engage in Argument from Evidence 	SEP <ul style="list-style-type: none"> ● Asking Questions and Defining Problems ● Developing & Using Models ● Collect and analyze data ● Constructing Explanations ● Obtaining, evaluating, and communicating information ● Engage in Argument from Evidence 	SEP <ul style="list-style-type: none"> ● Asking Questions and Defining Problems ● Developing & Using Models ● Constructing Explanations ● Engage in Argument from Evidence ● Obtaining, evaluating, and communicating information ● Collect and analyze data 	Unit Common Formative Assessments Unit Common Summative Assessment Comprehensive Final Exam
Level Specific Differentiation	<ul style="list-style-type: none"> ● SWD/504 – Accommodations Provided as appropriate for student ● ELL – Reading & Vocabulary Support ● Intervention Support – Some options for alternative assignments as well as quiz corrections ● Extensions – Enrichment Tasks and Projects can include Case Studies, Data Nuggets, project choice 	<ul style="list-style-type: none"> ● SWD/504 – Accommodations Provided as appropriate for student ● ELL – Reading & Vocabulary Support ● Intervention Support – Some options for alternative assignments as well as quiz corrections; Virtual dissections ● Extensions – Enrichment Tasks and Projects can include Case Studies, Data Nuggets, project choice, Additional dissections 	<ul style="list-style-type: none"> ● SWD/504 – Accommodations Provided as appropriate for student ● ELL – Reading & Vocabulary Support ● Intervention Support – Some options for alternative assignments as well as quiz corrections ● Extensions – Enrichment Tasks and Projects can include Case Studies, Data Nuggets, project choice 	
Resources	<ul style="list-style-type: none"> - www.ck12.org - Miller and Levine Biology Textbook 2009, (Dragonfly book) workbook, text, and test bank - Holt Biology Interactive Reader study guide - Pearson online Biology Textbook - Argument Driven Inquiry NSTA activity book - Shape of Life website videos and activities - Data Nuggets 	<ul style="list-style-type: none"> - www.ck12.org - Miller and Levine Biology Textbook 2009, (Dragonfly book) workbook, text, and test bank - Holt Biology Interactive Reader study guide - Pearson online Biology Textbook - Argument Driven Inquiry NSTA activity book - Shape of Life website videos and activities - Data Nuggets - Buffalo Case Studies - Youtube videos of Dissections of specific animals 	<ul style="list-style-type: none"> - www.ck12.org - Miller and Levine Biology Textbook 2009, (Dragonfly book) workbook, text, and test bank - Holt Biology Interactive Reader study guide - Pearson online Biology Textbook - POGIL taxonomy and evolution activities - Argument Driven Inquiry NSTA activity book - Data Nuggets 	

MCS Zoology Subject Group Overview

Unit Name	Unit 1: Survey of Phylum Chordata	Unit 2: Survey of the animal kingdom: Invertebrate	Unit 3: Evolutionary History of Animals	Exams/ Review
	<ul style="list-style-type: none"> - Buffalo Case Studies - Youtube videos of Dissections of specific animals - Biologyjunction.com; Biologycorner.com; Ms Maria Knowles courseites (dissection resources) - Eyewitness videos - Preserved specimens slides for observation and dissection 	<ul style="list-style-type: none"> - Biologyjunction.com; Biologycorner.com; Ms Maria Knowles courseites (dissection resources) - Eyewitness videos - Preserved specimens slides for observation and dissection 	<ul style="list-style-type: none"> - Biologyjunction.com - Biologycorner.com 	