Warren County School District

PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Advanced Biology – Honors
Course Number: 00317
Course Prerequisites: Academic Biology
Course Description: (Include "no final exam" or "final exam required") Advanced Biology is an honors course offered to students who have successfully completed Academic Biology. It is highly recommended to students who desire to attend college and/or pursue a career in a biological related field. The main approach to the course is at the molecular level with an emphasis on ecology, systematics, and surveys the viruses and major phyla of living things. The course involves varied types of instruction including in depth lab analysis with the use of technological devices.
Suggested Grade Level: 10-12
Length of Course: One Semester X Two SemestersOther (Describe)
Units of Credit: 1 (Insert <u>NONE</u> if appropriate.)
PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certification(s) (Insert certificate title and CSPG#) Biology

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Board Approved Textbooks, Software, Materials: Title: Biology Concepts and Connections Publisher: Pearson ISBN #: 0-13-135566-X Copyright Date: 2009 Date of WCSD Board Approval: 4/12/10
BOARD APPROVAL:
Date Written: November 2012
Date Approved:
Implementation Year: 2012-2013

SPECIAL EDUCATION AND GIFTED REQUIREMENTS

The teacher shall make appropriate modifications to instruction and assessment based on a student's Individual Education Plan (IEP) or Gifted Individual Education Plan (GIEP).

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SPECIFIC EDUCATIONAL STANDARDS, ESSENTIAL QUESTIONS, CONTENT, & SKILLS

Keystone Anchors – BIO; **Common Core** – Reading: RST, Writing: WHST **Year**: 2012-13 **Course**: Advanced Biology - Honors **Month**: All Months

Classification				
Standards	Essential Questions	Content	Skills	Resources
BIO.B.3.2.1-Interpret evidence supporting the theory of evolution (i.e., fossil, anatomical, physiological, embryological, biochemical, and universal genetic code). RST.11.4-Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics. RST.11.8-Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.	How do scientists classify living things?	 Systematics and phylogeny Kingdoms and domains Cladistic Analysis 	 Explain how living things are classified. Explain how evolutionary relationships are important in classification. Make and interpret a cladogram. 	Textbook and Teacher Resources: Biolo Concepts and Connections, Campbell, Reece
Viruses and Prokaryotes				
Standards	Essential Questions	Content	Skills	Resources
BIO.A.1.1.1-Describe the characteristics of life shared by all prokaryotic and eukaryotic organisms. BIO.A.1.2-Describe relationships between structure and function at biological levels of organization. BIO.A.1.2.1-Compare cellular structures and their functions in prokaryotic and eukaryotic cells. BIO.A.1.2.2-Describe and interpret relationships between structure and function at various levels of	1	 Structure of viruses Viral Life Cycles Emerging viruses Structure of prokaryotes Classification of prokaryotes Reproductive 	 Describe the basic structure of a virus. Explain how viruses cause disease. Describe the structural 	Textbook and feacher resource Biology, Concer and Connections Campbell and Reece

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organisms).	
organismis).	

RST.11.1-Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.

RST.11.2-Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.

RST.11.3-Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.

RST.11.5-Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.

WHST.11-12.1.d-Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.

WHST.11-12.2.e-Provide a concluding statement or section that follows from and supports the information or explanation provided (e.g., articulating implications or the significance of the topic).

Helpful and harmful bacteria

- bacteria.
 Explain the life cycles of the major groups of bacteria.
- Explain how bacteria benefit the ecosystem.
- Explain how some bacteria cause disease.

Immune System and Protists

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Essential Questions Content Skills Standards Resources RST.11.2-Determine the central ideas or How does the body fight • Koch's postulates Explain how the Textbook and conclusions of a text; summarize complex against invading Nonspecific defenses human immune teacher concepts, processes, or information presented in a organisms that may Specific defenses resources: Biology, system text by paraphrasing them in simpler but still disrupt homeostasis? Disorders of the Concepts and functions. Connections, How do protists affect accurate terms. immune system Describe the

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RST.11.3-Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text. RST.11.4-Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics. RST.11.5-Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas. RST.11.8-Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information. BIO.A.4.2-Explain mechanisms that permit organisms to maintain biological balance between their internal and external environments.		•	Evolution of eukaryotes Classification of protists Major structural features of protists Life cycles of protists	•	structural features of the major groups of protists. Describe the life cycles of the major groups of protists. Identify several protists that cause disease.	Campbell and Reece
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7	Standards	Essential Questions	Co	ontent	Sk	ills	Resources
e m b e r	BIO.A.4.2-Explain mechanisms that permit organisms to maintain biological balance between their internal and external environments. BIO.A.4.2.1-Explain how organisms maintain homeostasis (e.g., thermoregulation, water regulation, oxygen regulation). WHST.11-12.2-Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes. RST.11.2-Determine the central ideas or	How do fungi affect the homeostasis of other organisms and ecosystems?	•	Classification of fungi Structural features of the major groups of fungi Life Cycles of fungi Helpful and harmful fungi	•	major groups of fungi.	Textbook and teacher resources: Biology, Concepts and Connections, Campbell and Reece

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	conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms. RST.11.3-Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.					•	ecosystem. Explain how fungi can cause disease in plants and animals.	
D e	Plants							
	Standards	Es	sential Questions	Co	ontent	Sk	ills	Resources
e m b e r	BIO.A.1.1-Explain the characteristics common to all organisms. BIO.A.1.1.1-Describe the characteristics of life shared by all prokaryotic and eukaryotic organisms. BIO.A.1.2-Describe relationships between structure and function at biological levels of organization. BIO.A.1.2.2-Describe and interpret relationships between structure and function at various levels of biological organization (i.e., organelles, cells, tissues, organs, organ systems, and multicellular organisms). BIO.A.2.1-Describe how the unique properties of water support life on Earth. BIO.A.2.1.1-Describe the unique properties of water and how these properties support life on	•	How have the four major groups of plants adapted to life on land? How are the major systems organized to carry out the basic functions of seed plants? How do changes in the environment affect the reproduction, development, and growth of plants?	•	Plant evolution and adaptation to life on land Structural features of the major groups of plants Alternation of generations life cycle Reproduction and development Nutrient uptake and transport Nutrient deficiencies Control systems	•	plants have adapted to life on land. Explain the	Textbook and teacher resources: Biology, Concepts and Connections, Campbell and Reece

plant hormones

regulate growth

responses.

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Earth (e.g., freezing point, high specific heat,

BIO.A.4.2-Explain mechanisms that permit

BIO.A.4.1-Identify and describe the cell structures

involved in transport of materials into, out of, and

organisms to maintain biological balance between

cohesion).

throughout a cell.

their internal and external environments. BIO.A.4.2.1-Explain how organisms maintain homeostasis (e.g., thermoregulation, water regulation, oxygen regulation). RST.11.2-Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms. RST.11.3-Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text. RST.11.4-Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics. RST.11.5-Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas. RST.11.6-Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved. RST.11.8-Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information. WHST.11-12.2.e-Provide a concluding statement or section that follows from and supports the information or explanation provided (e.g., articulating implications or the significance of the

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topic).

J	Plants Continued							
a n	Standards	Es	sential Questions	Co	ontent	Sk	ills	Resources
u a r y	BIO.A.1.1-Explain the characteristics common to all organisms. BIO.A.1.1.1-Describe the characteristics of life shared by all prokaryotic and eukaryotic organisms. BIO.A.1.2-Describe relationships between structure and function at biological levels of organization. BIO.A.1.2.2-Describe and interpret relationships between structure and function at various levels of biological organization (i.e., organelles, cells, tissues, organs, organ systems, and multicellular organisms). BIO.A.2.1-Describe how the unique properties of water support life on Earth. BIO.A.2.1.1-Describe the unique properties of water and how these properties support life on Earth (e.g., freezing point, high specific heat, cohesion). BIO.A.4.1-Identify and describe the cell structures involved in transport of materials into, out of, and throughout a cell. BIO.A.4.2-Explain mechanisms that permit organisms to maintain biological balance between their internal and external environments. BIO.A.4.2.1-Explain how organisms maintain homeostasis (e.g., thermoregulation, water regulation, oxygen regulation). RST.11.2-Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms. RST.11.3-Follow precisely a complex multistep	•	How have the four major groups of plants adapted to life on land? How are the major systems organized to carry out the basic functions of seed plants? How do changes in the environment affect the reproduction, development, and growth of plants?	•	Plant evolution and adaptation to life on land Structural features of the major groups of plants Alternation of generations life cycle Reproduction and development Nutrient uptake and transport Nutrient deficiencies Control systems		plants have adapted to life on land. Explain the	Textbook and teacher resources: Biology, Concepts and Connections, Campbell and Reece

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procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.

RST.11.4-Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics.

RST.11.5-Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.

RST.11.6-Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.

RST.11.8-Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.

WHST.11-12.2.e-Provide a concluding statement or section that follows from and supports the information or explanation provided (e.g., articulating implications or the significance of the topic).

Animals

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e **Essential Questions** Resources **Standards** Content Skills BIO.A.1.1-Explain the characteristics common to What traits define Classification of Describe the Textbook and all organisms. animals? invertebrates teacher resources: structural a BIO.A.1.2-Describe relationships between Biology, Concepts Structural features of How do the structures • features of the structure and function at biological levels of and Connections, of animals allow them the major groups of major groups of organization. to exchange materials invertebrates Campbell and animals. BIO.A.1.2.2-Describe and interpret relationships Life cycles of the with their Describe the life Reece

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between structure and function at various levels of biological organization (i.e., organelles, cells,	environment?		major groups of invertebrates	cycles of the major groups of	
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tissues, organs, organ systems, and multicellular		•	Classification of	animals.	
organisms).			vertebrates	Explain how	
BIO.A.3.2-Identify and describe how organisms		•	Structural features of	digestion,	
obtain and transform energy for their life			the major groups of	respiration,	
processes.			vertebrates	circulation,	
BIO.A.4.2-Explain mechanisms that permit		•	Life cycles of the	excretion,	
organisms to maintain biological balance between			major groups of	response,	
their internal and external environments.			vertebrates	movement and	
BIO.A.4.2.1-Explain how organisms maintain				reproduction	
homeostasis (e.g., thermoregulation, water				occur in the	
regulation, oxygen regulation).				major groups of	
RST.11.1-Cite specific textual evidence to support				animals.	
analysis of science and technical texts, attending to					
important distinctions the author makes and to any					
gaps or inconsistencies in the account.					
RST.11.2-Determine the central ideas or					
conclusions of a text; summarize complex					
concepts, processes, or information presented in a					
text by paraphrasing them in simpler but still					
accurate terms.					
RST.11.3-Follow precisely a complex multistep					
procedure when carrying out experiments, taking					
measurements, or performing technical tasks;					
analyze the specific results based on explanations					
in the text.					
RST.11.4-Determine the meaning of symbols, key					
terms, and other domain-specific words and					
phrases as they are used in a specific scientific or					
technical context relevant to grades 11-12 texts and					
topics.					
RST.11.5-Analyze how the text structures					
information or ideas into categories or hierarchies,					
demonstrating understanding of the information or					
ideas.					

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RST.11.6-Analyze the author's purpose in

providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.

RST.11.7-Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem. WHST.11-12.2.e-Provide a concluding statement or section that follows from and supports the information or explanation provided (e.g., articulating implications or the significance of the topic).

WHST.11-12.9-Draw evidence from informational texts to support analysis, reflection, and research.

Animals Continued

r	Standards 1	Essential Questions			Co	ntent	Sk	ills	Resources
2	BIO.A.1.1-Explain the charac	teristics common to	•	What traits define	•	Classification of	•	Describe the	Textbook and
1	all organisms.			animals?		invertebrates		structural	teacher resources:
	BIO.A.1.2-Describe relationsl	hips between •	•	How do the structures	•	Structural features of		features of the	Biology, Concepts
	structure and function at biolo	ogical levels of		of animals allow them		the major groups of		major groups of	and Connections,
	organization.			to exchange materials		invertebrates		animals.	Campbell and
	BIO.A.1.2.2-Describe and into	erpret relationships		with their	•	Life cycles of the	•	Describe the life	Reece
	between structure and function	n at various levels of		environment?		major groups of		cycles of the	
	biological organization (i.e., o					invertebrates		major groups of	
	tissues, organs, organ systems	s, and multicellular			•	Classification of		animals.	
	organisms).					vertebrates	•	Explain how	
	BIO.A.3.2-Identify and descri	_			•	Structural features of		digestion,	
	obtain and transform energy f	or their life				the major groups of		respiration,	
	processes.					vertebrates		circulation,	
	BIO.A.4.2-Explain mechanism	-			•	Life cycles of the		excretion,	
	organisms to maintain biologi	I				major groups of		response,	
	their internal and external env					vertebrates		movement and	
	BIO.A.4.2.1-Explain how org	· · · · · · · · · · · · · · · · · · ·						reproduction	
	homeostasis (e.g., thermoregu	lation, water						occur in the	
	regulation, oxygen regulation).						major groups of	

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RST.11.1-Cite specific textual evidence to support	animals.	
analysis of science and technical texts, attending to		
important distinctions the author makes and to any		
gaps or inconsistencies in the account.		
RST.11.2-Determine the central ideas or		
conclusions of a text; summarize complex		
concepts, processes, or information presented in a		
text by paraphrasing them in simpler but still		
accurate terms.		
RST.11.3-Follow precisely a complex multistep		
procedure when carrying out experiments, taking		
measurements, or performing technical tasks;		
analyze the specific results based on explanations		
in the text.		
RST.11.4-Determine the meaning of symbols, key		
terms, and other domain-specific words and		
phrases as they are used in a specific scientific or		
technical context relevant to grades 11-12 texts and		
topics.		
RST.11.5-Analyze how the text structures		
information or ideas into categories or hierarchies,		
demonstrating understanding of the information or		
ideas.		
RST.11.6-Analyze the author's purpose in		
providing an explanation, describing a procedure,		
or discussing an experiment in a text, identifying		
important issues that remain unresolved.		
RST.11.7-Integrate and evaluate multiple sources		
of information presented in diverse formats and		
media (e.g., quantitative data, video, multimedia)		
in order to address a question or solve a problem.		
WHST.11-12.2.e-Provide a concluding statement		
or section that follows from and supports the		
information or explanation provided (e.g.,		
articulating implications or the significance of the		
topic).		
WHST.11-12.9-Draw evidence from informational		

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texts to support analysis, reflection, and research.				
Ecology				
Standards	Essential Questions	Content	Skills	Resources
BIO.B.4.1-Describe ecological levels of organization in the biosphere. BIO.B.4.1.1-Describe the levels of ecological organization (i.e., organism, population, community, ecosystem, biome, and biosphere). BIO.B.4.1.2-Describe characteristic biotic and abiotic components of aquatic and terrestrial ecosystems. BIO.B.4.2.3-Describe how matter recycles through an ecosystem (i.e., water cycle, carbon cycle, oxygen cycle, and nitrogen cycle). BIO.B.4.2.4-Describe how ecosystems change in response to natural and human disturbances (e.g., climate changes, introduction of nonnative species, pollution, fires). BIO.B.4.2.5-Describe the effects of limiting factors on population dynamics and potential species extinction. RST.11.1-Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account. RST.11.2-Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms. RST.11.3-Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.		 Population growth Population density Life histories Structural features of communities Energy flow in the ecosystem Nutrient cycles Types of learning in animals Biological rhythms Social behavior 	 Describe how populations change. Explain the structural features of communities, such as competition, prediation, and symbioses lead to diverse adaptations in organisms. Explain ecosystem dynamics such as energy flow and nutrient cycling. Differentiate between different types of learning in animal populations. Explain how social behavior benefits animal populations. 	t

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in the text.

RST.11.4-Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics.

RST.11.5-Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.

RST.11.6-Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.

RST.11.7-Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem. RST.11.8-Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.

WHST.11-12.9-Draw evidence from informational texts to support analysis, reflection, and research.

Ecology Continued

Standards	Essential Questions	Content	Skills	Resources
BIO.B.4.1-Describe ecological levels of organization in the biosphere. BIO.B.4.1.1-Describe the levels of ecological organization (i.e., organism, population, community, ecosystem, biome, and biosphere). BIO.B.4.1.2-Describe characteristic biotic and abiotic components of aquatic and terrestrial ecosystems. BIO.B.4.2.3-Describe how matter recycles through	How do abiotic and biotic factors shape ecosystems?	 Population growth Population density Life histories Structural features of communities Energy flow in the ecosystem Nutrient cycles Types of learning in 	 Describe how populations change. Explain the structural features of communities, such as competition, 	Textbook and teacher resources: Biology, Concepts and Connections, Campbell and Reece

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an ecosystem (i.e., water cycle, carbon cycle, oxygen cycle, and nitrogen cycle).

BIO.B.4.2.4-Describe how ecosystems change in response to natural and human disturbances (e.g., climate changes, introduction of nonnative species, pollution, fires).

BIO.B.4.2.5-Describe the effects of limiting factors on population dynamics and potential species extinction.

RST.11.1-Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.

RST.11.2-Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.

RST.11.3-Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.

RST.11.4-Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11-12 texts and topics.

RST.11.5-Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.

RST.11.6-Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.

RST.11.7-Integrate and evaluate multiple sources

animals

- Biological rhythms
- Social behavior

prediation, and symbioses lead to diverse adaptations in organisms.

- Explain
 ecosystem
 dynamics such as
 energy flow and
 nutrient cycling.
- Differentiate between different types of learning in animal populations.
- Explain how social behavior benefits animal populations.

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of information presented in diverse formats and		
media (e.g., quantitative data, video, multimedia)		
in order to address a question or solve a problem.		
RST.11.8-Evaluate the hypotheses, data, analysis,		
and conclusions in a science or technical text,		
verifying the data when possible and corroborating		
or challenging conclusions with other sources of		
information.		
WHST.11-12.9-Draw evidence from informational		
texts to support analysis, reflection, and research.		

ASSESSMENTS

Suggested Formative Assessments: The teacher will develop and use standards-based assessments throughout the course.

- Pre-Assessments of prior knowledge (e.g. entrance cards or KWL chart)
- Labs/lab reports
- Bell ringers/Problems of the Day(PODs)
- Discussions
- Teacher observation/Questioning
- Graphic organizers (e.g. Venn diagrams, word mapping, webbing, KWL chart, etc.)
- Summarizing
- Retelling
- Notetaking
- Problem-based learning modules
- Authentic assessment
- Oral presentations
- Outlining
- Journaling
- Student presentations/projects
- Open-ended response
- Classroom Performance System (CPS)

Suggested Summative Assessments:

- Essays
- Open-Ended Responses
- Projects
- Quizzes/tests

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- Student presentations
- Portfolios
- Lab Practical
- Lab Reports

 District Approved Assessment Instruments Any district approved assessment instrument 	
Portfolio Assessment: Yes X N	No
District-wide Final Examination Required:	Yes <u>X</u> No
Course Challenge Assessment (Describe):	
WRITING TEAM: WCSD Biology Teachers	
WCSD	STUDENT DATA SYSTEM INFORMATION
1. Is there a required final examination?	Yes No
2. Does this course issue a mark/grade for the	report card?
3. Does this course issue a Pass/Fail mark?	YesXNo
4. Is the course mark/grade part of the GPA c	valculation?
X Yes No	
5. Is the course eligible for Honor Roll calcula	ation? <u>X</u> Yes No
6. What is the academic weight of the course	?
No weight/Non credit	Standard weight
X Enhanced weight (Describe)	As per current school board policy

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