

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 1	Thursday, 8/4	Biology Course Introduction	What do you expect for our biology classroom procedures?	<ol style="list-style-type: none"> 1. Warm up: Student information and goals sheet (Teacher Preference) - Set Up: Google Classroom 2. Lesson: Seating Chart (Teacher Preference), Attendance, school policies, and expectations. Syllabus, Textbook Agreement, and Safety Contract. Notebook Set Up - 1 ½ inch binder, 5 Dividers: Warm Up, Notes, Handouts, Labs, Graded Papers. 3. HW: Signed Paperwork (Due Monday) and complete student questionnaire 	N/A
	Friday, 8/5	Scientific Method	How do scientists investigate and try to solve scientific problems?	<p>Dr. Bitterman meets with each grade level during the day.</p> <ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (science) 2. Lesson: Collect Signed Syllabus, Textbook Agreement, and Lab Safety Contract (DUE: signed and returned Monday). Cube Activity (scientific method) 3. HW: Signed Paperwork 	SCSH1-6

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 2	Monday, 8/8	Biology prior Knowledge	What safety measures are required in scientific investigations?	<ol style="list-style-type: none"> 1. Warm Up: Turn in all signed papers Rhymer - Sign up for google classrooms 2. Lesson: Lab Safety Notes (Flinn Form, Lab Scenarios, and Symbols) and Activity 3. HW: Review Safety Symbols and Safety Rules (Check Tomorrow) 	SCSH1-6
	Tuesday, 8/9	Scientific Method	How do scientists investigate and try to solve scientific problems?	<ol style="list-style-type: none"> 1. Warm Up: Review and Lab Safety Sheet Assessment(Quiz) 2. Lesson: Science Equipment Power Point with worksheet Scientific Method Note 3. HW: None 	SCSH1-6
	Wednesday, 8/10	Scientific Method	How do scientists investigate and try to solve scientific problems?	<ol style="list-style-type: none"> 1. Warm Up: Equipment Review 2. Lesson: Finish Scientific Method Notes and Go over scientific method practice Assign Textbooks HW: Sci Method Quiz Tomorrow 	SCSH1-6
	Thursday, 8/11	Scientific Method	How do scientists investigate and try to solve scientific problems?	<ol style="list-style-type: none"> 1. Warm Up: Scientific Method Quiz 2. Lesson: Metric Conversion Notes Metric Conversion Problems Preview Metric Lab 3. HW: Metric Conversion Practice (On lab worksheet) 	SCSH1-6
	Friday, 8/12	Scientific Method	How do scientists investigate and try to solve scientific problems?	<ol style="list-style-type: none"> 1. Warm Up: Vocabulary Anagram (biology, hypothesis, control, dependent, independent)- <i>ilobgyo, thyseopish, tocrnlo, edinpteendnt, eedpntend</i> - In biology experiemnts need to begin with a hypothesis. This hypothesis will include an independent and dependent variable. For the experiment to be valid only 1 variable can change all the others must stay constant (control). 2. Lesson: Metric Lab Graphing Notes and Examples 	SCSH1-6

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

				3. HW: Complete Metric Lab Conversions for check on Monday and Finish Graphing	
--	--	--	--	--	--

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 3	Monday, 8/15	Scientific Method	How do scientists investigate and try to solve scientific problems?	<ol style="list-style-type: none"> 1. Warm Up: Metric Lab Assessment include ruler diagram (and review) 2. Lesson: Graphing (due Monday) Practice 3. HW: Complete Graphing Practice 	SCSH1-6
	Tuesday, 8/16	Scientific Method	How do scientists investigate and try to solve scientific problems?	<ol style="list-style-type: none"> 1. Warm Up: Graphing HW Assessment 2. Lesson: Review Scientific Method and Discuss Writing Rubric Scientific Method Writing - 25 Points 3. HW: SM Test Friday 	SCSH1-6
	Wednesday, 8/17	Scientific Method	How do scientists investigate and try to solve scientific problems?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram () 2. Lesson: MILESTONE Biology Pre-test (diagnostic) 3. HW: Scientific Method Test Friday 	SCSH1-6
	Thursday, 8/18	Ecology and Levels of Organization	What is ecology and how is the living world organized?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (Ecology) 2. Lesson: Review Scientific Method, Graphing, etc. Characteristics of Life graphic organizer/notes and Ecology Introduction Activity Ecology Introduction Notes 3. HW: SM Test Tomorrow 	SB4b
	Friday, 8/19	Energy Flow	How does energy flow through an ecosystem?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (Meter, Data, Quantitative, Qualitative, Conclusion) 2. Lesson: SM Test Turn in SM Investigation Energy Pyramid Graphic Organizer Page 72 in the text book (graphics outside, summary of each on the inside) 3. HW: None 	SB4b

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 4	Monday, 8/22	Energy Flow	How does energy flow through an ecosystem?	<ol style="list-style-type: none"> 1. Warm Up: Pyramid Homework Check 2. Lesson: Energy Flow Notes Food Chain/Food Web Activity (sheet due tomorrow) 3. HW: Finish Food Web Activity 	SB4b
	Tuesday, 8/23	Ecological Cycles	What materials recycle through the biosphere and how?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (consumer) 2. Energy Flow Homework Check/Assessment Review Energy Transfer Homework Ecological Cycle Notes 3. HW: Ecology Quiz Tuesday (through energy transfer) 	SB4b
	Wednesday, 8/24	Ecological Cycles	What materials recycle through the biosphere and how?	<ol style="list-style-type: none"> 1. Warm up: LOO and Energy Transfer Review (quiz tomorrow) 2. Lesson: Water Cycle Lab Water Cycle Lab Questions and Diagram 3. HW: Quiz tomorrow Test Thursday 9/1 (SM, Ecology organization, pyramids, energy flow, cycles) 	SB4b
	Thursday, 8/25	Ecological Cycles	What materials recycle through the biosphere and how?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (de-nitrification) 2. Lesson: Ecology Quiz Water Cycle Lab Review 3. HW: Review Cycle Notes and Handouts 	SB4b
	Friday, 8/26	Ecological Cycles	What materials recycle through the biosphere and how?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (Energy, Trophic Level, Consumer, Autotroph, Omnivore) 2. Lesson: Ecology Quiz Water Cycle Lab Review (Assessment Monday) 3. Review Cycle Notes and Handouts 	SB4b

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS
------	-----	---------	------------	--------------------------	-----------

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

					(GSE, AP)
Week 5	Monday, 8/29	Ecological Cycles	What materials recycle through the biosphere and how?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (nitrification) 2. Lesson: Water Cycle Lab Assessment Cycle Notes and Station Sheets 3. HW: Cycle Review Sheet 	SB4b
	Tuesday, 8/30	Ecological Cycles	What materials recycle through the biosphere and how?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (evaporation) 2. Lesson: Cycles Homework Check Carbon and Nitrogen Cycle Activity 3. HW: Ecology Test #1 Thursday, 9/1 	SB4b
	Wednesday, 8/31	Ecological Cycles	What materials recycle through the biosphere and how?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (evaporation) 2. Lesson: Finish Carbon and Nitrogen Cycle Activity Review for Test 1 3. HW: Ecology Test #1 Thursday, 9/1 	SB4b
	Thursday, 9/1	Ecology Unit Assessment	To assess the students in Ecology	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (commensalism) 2. Lesson: Test Ecology Unit Part 1 Symbiosis graphic organizer 3. HW: Finish symbiosis graphic organizer 	SB4b
	Friday, 9/2 Early Release (1 st , 2 nd , 3 rd , 5 th)	Community/Ecosystem Interactions	How to biotic and abiotic factors interact in an ecosystem?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (mutualism) 2. Lesson: Ecology Current Event Reading and Socratic Seminar https://cosmosmagazine.com/social-sciences/symbiosis-when-living-together-win-win 3. HW: None 	SB4c

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)	
Week 6	Monday, 9/5	LABOR DAY HOLIDAY				
	Tuesday, 9/6	Community and Ecosystem Interactions	How do biotic and abiotic factors interact in an ecosystem?	1. Warm up: Vocabulary Anagram (symbiosis) 2. Lesson: Symbiosis Homework Check Symbiosis Notes Symbiosis Writing - What is symbiosis? Explain 1 Type and Provide Example (Include how each member of the partnership is impacted) 3. HW: None	SB4a	
	Wednesday, 9/7 Essay – English	Community and Ecosystem Interactions	How do biotic and abiotic factors interact in an ecosystem?	1. Warm up: Vocabulary Anagram (succession) 2. Lesson: Predator-Prey Lab (Trout-Mayfly Lab) 3. HW: Graph Data and Answer Analysis Questions	SB4a	
	Thursday, 9/8	Succession	How do ecosystems change over time?	1. Warm up: Vocabulary Anagram (climax community) 2. Lesson: Predator-Prey Lab Review Lab Assessment Succession Notes 3. HW: Succession Graphic Organizer	SB4c	
	Friday, 9/9 Benchmark #1 – Electives	Succession	How do ecosystems change over time?	1. Warm up: Vocabulary Anagram (pioneer species) 2. Lesson: Succession Graphic Organizer Due/Assessment 3. HW: BM1, Thursday 9/13	SB4a,b,c	

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, SEPTEMBER 7.

NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, SEPTEMBER 8 – FRIDAY, SEPTEMBER 16 (INCLUSIVE).

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 7	Monday, 9/12 Benchmark #1 – Social Studies	Benchmark 1 Assessment	Benchmark 1 Assessment	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (greenhouse effect) 2. Lesson: Review for BM 1 Exam 3. HW: Study for BM #1 (100 Points) 	SCSH1-6, SB4 (all)
	Tuesday, 9/13 Benchmark #1 – Science	Benchmark 1 Assessment	Benchmark 1 Assessment	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (greenhouse effect) 2. Lesson: BM 1 Exam Biome Introduction 3. HW: Finish Biome Introduction 	SCSH1-6, SB4 (all)
	Wednesday, 9/14	Biome and Animal Behaviors	How do behaviors contribute to an organisms survive in a biome?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram 2. Lesson: Biome World Tour Activity 3. HW: Finish Biome World Tour Activity 	SB4 e and f
	Thursday, 9/15 Benchmark #1 – English	Animal and Plant Behaviors	How do behaviors contribute to an organisms survive in a biome?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram 2. Lesson: Finish Biome World Tour Activity Present Biomes 3. HW: Review Biomes 	SB4 e and f
	Friday, 9/16 Benchmark #1 – Math	Biomes	What are the different biomes that make up our biosphere? What are their individual characteristics?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram None 2. Lesson: Finish Biome World Tour Presentations Biome Writing - Pick a biome and describe the abiotic and biotic factors which make this area unique. 3. HW: Biome Quiz Tomorrow 	SB4a

NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, SEPTEMBER 8 – FRIDAY, SEPTEMBER 16 (INCLUSIVE).

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 8	Monday, 9/19	Biomes	What are the different biomes and their specific characteristics?	<ol style="list-style-type: none"> 1. Warm Up: Biome E-mail 2. Lesson: Biome Quiz Human Impact Introduction 3. HW: Finish Introduction 	SB4a and d
	Tuesday, 9/20	Biomes	What are the different biomes and their specific characteristics?	<ol style="list-style-type: none"> 1. Warm up: Human Impact Socratic Seminar 2. Lesson: Video Clips http://www3.epa.gov/climatechange/students/basic/today/greenhouse-effect.html http://video.nationalgeographic.com/video/101-videos/global-warming-101 Human Impact Notes 3. HW: None 	SB4d
	Wednesday, 9/21	Biomes	What is the human impact on population growth?	<ol style="list-style-type: none"> 1. Warm up: Identify and describe which Human impact issue is most important to you and why? 2. Lesson: Finish Human Impact Notes: Biodiversity Examples, Greenhouse Gases, Global Warming, Smog v, Acid Rain, Negative (Deforestation, Overfishing, Biomagnification, Renewable v, Non-Renewable, Desertification, Ozone Depletion) Biomagnification Activity or Demonstration 3. HW: CW Assessment Tomorrow Human Impact 	SB4d
	Thursday, 9/22	Biomes	What is the human impact on population growth?	<ol style="list-style-type: none"> 1. Warm Up: Human Impact CW Check 2. Lesson: Population Notes and Graphs 3. Homework: Finish Graphs 	SB4d and a
	Friday, 9/23 Early Release – Homecoming (7 th , 6 th , 4 th , 5 th)	Community/Ecosystem Interactions	How to biotic and abiotic factors interact in an ecosystem?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (ozone, global warming, greenhouse effect, species, carbon dioxide) 2. Lesson: Ecology Current Event Reading (Human Impact) Socratic Seminar 3. HW: None 	SB4d

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS
------	-----	---------	------------	--------------------------	-----------

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

					(GSE, AP)
Week 9	Monday, 9/26	Ecological Populations	What is the human impact on population growth?	<ol style="list-style-type: none"> 1. Warm Up: Population Notes Review Sheet 2. Lesson: Human Population Reading and Graph Chapter 5 Vocabulary Review WS (Book) 3. HW: Finish Vocabulary Review Population Knowledge check tomorrow 	SB4a
	Tuesday, 9/27	Ecological Populations	What is the human impact on population growth?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Review (Ch 5) 2. Lesson: Go over all 3 review pages for population dynamics Population Knowledge Check 3. HW: None 	SB4a
	Wednesday, 9/28 Essay – Social Studies	Ecological Populations	What is the human impact on population growth?	<ol style="list-style-type: none"> 1. Warm up: Population Knowledge Check (Use your class notes and graphs) 2. Lesson: Limiting Factors Notes and Activity 3. HW: Limiting Factors Activity Assessment Tomorrow 	SB4a
	Thursday, 9/29	Ecological Populations	What is the human impact on population growth?	<ol style="list-style-type: none"> 1. Warm Up: Limiting Factors CW Assessment 2. Lesson Isle Royale Graphs https://www.youtube.com/watch?v=NGhOzGbpEmI 3. Homework: Test Study Guide and BM Reading Practice Isle Royale Article Ecology Test #2, Monday 	SB4a
	Friday, 9/30	Ecological Populations	What is the human impact on population growth?	<ol style="list-style-type: none"> 1. Warm up: Graphing Lab Assessment 2. Lesson: Ecology Test #2 Review 3. HW: Ecology Test #2, Monday 	SB4a

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, SEPTEMBER 28.

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 10	Monday, 10/3	Ecology Unit Test	Assessment	<ol style="list-style-type: none"> 1. Warm Up: None 2. Lesson: Ecology Test #2 (Symbiosis, Predator-Prey, Succession, Biomes, Human Impact, Population Dynamics) 3. HW: Finish Matter 	SB4a-f
	Tuesday, 10/4	Performance Essay	What is the human impact on population growth?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram(parasitism) 2. Lesson: Test Discussion (Reflection and Remediation) Performance Essay Document review 3. HW: Review material for PE 	SB4d
	Wednesday, 10/5 Essay – Science	Performance Essay	Performance Essay	<ol style="list-style-type: none"> 1. Warm Up: Discussion of PE requirements 2. Lesson: Performance essay Most Common Elements Reading and Questions 3. HW: Finish Most Common Elements Reading and Questions 	TBD SB1
	Thursday, 10/6	Nature of Matter	What makes up living things?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (atom, electron, proton, neutron, carbon) 2. Lesson: Most Common Elements and examples G.O. Chemistry of Life Introduction Notes (water) 3. HW: None 	SB1d
	Friday, 10/7	FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY			

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, OCTOBER 5.

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS
------	-----	---------	------------	--------------------------	-----------

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

					(GSE, AP)	
Week 11	Monday, 10/10	FALL HOLIDAY!				
	Tuesday, 10/11	Properties of Water	What makes up living things?	<ol style="list-style-type: none"> 1. Warm up: Water Properties Review 2. Lesson: Finish Notes on water Water Olympics Lab 3. HW: Finish Water Lab 	SB1d	
	Wednesday, 10/12	Properties of Water	What are the properties of water?	<ol style="list-style-type: none"> 1. Warm up: 5 Minute Finish Water Lab 2. Lesson: Review Water Olympics Lab and complete water lab assessment 3. Macromolecule Outline Student Version Here 4. HW: Review Macromolecules - Carbohydrates 	SB1d and c	
	Thursday, 10/13 Early Release Professional Learning (1 st , 2 nd , 3 rd , 5 th)	Macromolecules	What are the properties of water?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (cohesion, adhesion, capillary action) 2. Lesson: Finish Macromolecule Notes Macromolecule Cut and Paste Activity 3. HW: Assessment on Cut and Paste activity Monday 	SB1c	
	Friday, 10/14 Early Release Professional Learning (7 th , 6 th , 4 th , 5 th)	Macromolecules	What are the properties of water?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (cohesion, adhesion, capillary action) 2. Lesson: Finish Macromolecule Notes Macromolecule Cut and Paste Activity 3. HW: Assessment on Cut and Paste activity Monday 	SB1c	

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 12	Monday, 10/17	Macromolecules	What are the major macromolecules in living things?	<ol style="list-style-type: none"> 1. Warm Up: Macromolecule HW Check 2. Lesson: Review Activity Macromolecule Notes Table 3. HW: Macromolecules "Who Am I?" 	SB1c
	Tuesday, 10/18	Macromolecules and Enzymes	What are the major macromolecules in living things? What are enzymes and what are their functions in living things?	<ol style="list-style-type: none"> 1. Warm Up: Go over "Who Am I?" 2. Lesson: Enzyme Notes 3. HW: Preview Enzyme Lab Macromolecule Quiz Friday 	SB1c
	Wednesday, 10/19	Ecology	To incorporate reading into the curriculum and promote scientific discussion	<ol style="list-style-type: none"> 1. Warm Up: Ecology Current Event Reading 2. Lesson: Socratic Seminar 3. HW: None 	SB4c
	Thursday, 10/20	Enzymes and Chemical Reactions	What are enzymes and what are their functions in living things?	<ol style="list-style-type: none"> 1. Warm Up: Macromolecule ID ppt 2. Lesson: Enzyme Lab Discussion and Completion 3. HW: Macromolecule Quiz Friday 	SB1b
	Friday, 10/21	Enzymes and Chemical Reactions	What are enzymes and what are their functions in living things?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (monomer, polymer, carbohydrate, monosaccharide, polysaccharide) 2. Lesson: MM quiz Enzyme Animation (Find One) Enzyme Lab Discussion 3. Homework: Enzyme Lab Check Monday 	SB1b

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 13	Monday, 10/24	Enzymes and Chemical Reactions	`What are enzymes and how do they function in living things?	<ol style="list-style-type: none"> 1. Warm Up: Enzyme Lab Assessment 2. Lesson: Review for Biochemistry Test 3. HW: Biochemistry Test Tomorrow 	SB1b-d
	Tuesday, 10/25	Biochemistry	All biochemistry topics: Water, pH, Macromolecules, and Chemical Reactions	<ol style="list-style-type: none"> 1. Warm Up: Biochemistry Test 2. Lesson: Introduction to Cells Reading 3. HW: None 	SB1b-d
	Wednesday, 10/26 Essay – Math	History of Cell Discovery and Benchmark Topic: Scientific Method	Who were the individuals who contributed to the cell theory and what are the differences between a prokaryote and eukaryotic cell?	<ol style="list-style-type: none"> 1. Warm Up: Benchmark Review Topic - Scientific Method 2. Lesson: Go over introduction to cells reading Begin Cell Parts Notes (Prokaryote v. Eukaryote and Endosymbiotic Theory) 3. Homework: Pro v. Eu Venn Diagram 	SB1a
	Thursday, 10/27	Cell Structure and Function	What is the function of the different cell organelles?	<ol style="list-style-type: none"> 1. Warm Up: Benchmark Review Topic - Ecology 2. Lesson: Notes on Cell Structure and Function (Eukaryotic Organelles) 3. HW: Benchmark on Monday 10/31 Work on Study Guide 	SB1a
	Friday, 10/28 Benchmark #2 – Electives	Benchmark Review	Prepare for the benchmark on Monday	<ol style="list-style-type: none"> 1. Warm Up: Benchmark Review Topic - Biochemistry 2. Lesson: Review Games 3. HW: Study for BM #2 Topics: Intro to Science - Biochemistry 	SB4a-d, SB1b-d

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, OCTOBER 26.

NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, OCTOBER 27 – FRIDAY, NOVEMBER 4 (INCLUSIVE).

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 14	Monday, 10/31 Benchmark #2 – Science	Benchmark #2	What is the function of the different cell organelles?	<ol style="list-style-type: none"> 1. Warm Up: None 2. Lesson: Science Benchmark #2 Cell Organelles Who Am I ? Worksheet 3. HW: Finish Cell Organelles “Who Am I?” Worksheet (Soak Eggs In Vinegar)	SB4a-d, SB1a-d
	Tuesday, 11/1 Benchmark #2 – Social Studies	Cell Structure and Function	What is the function of the different cell organelles?	<ol style="list-style-type: none"> 1. Warm Up: City Cell Analogy 2. Lesson: Cell Organelle ½ Sheet and Cell Membrane Notes Cell Transport Overview Concept Map Begin Egg Osmosis Lab/Demo - Soak in Vinegar for 2 Days (Began Soaking the Morning Before) - Discuss With Students) 3. HW: Cell Parts Class Work Check Tomorrow 	SB1a
	Wednesday, 11/2	Cell Transport	How is material moved in and out of the cell?	<ol style="list-style-type: none"> 1. Warm Up: Cell Class Work Check (People, Theory, Pro v. Eu) and Parts 2. Lesson: Cell Transport Notes Osmosis Lab/Demo Continues - Place in Regular Solution (One Per Class - Distilled Water, Syrup, Gatorade - Shows Color Movement Too, Tap Water, Coke, Powerade) 3. HW: Cells and Their Environment WS 	SB1a

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

	Thursday, 11/3 Benchmark #2 – Math	Cell Transport	How is material moved in and out of the cell?	<ol style="list-style-type: none"> 1. Warm Up: Cell Transport Review Questions 2. Lesson: Finish Cell Transport Notes Active Art (Requires Shockwave- Does Not Work in Chrome) Computer Lab: Cell Transport Web Activity (Active Art) http://www.phschool.com/webcodes10/index.cfm?wcprefix=cbk&wcsuffix=9999&area=view http://www.phschool.com/webcodes10/index.cfm?wcprefix=cbp&wcsuffix=3072&area=view http://www.phschool.com/webcodes10/index.cfm?wcprefix=cbp&wcsuffix=3073&area=view http://www.phschool.com/webcodes10/index.cfm?wcprefix=cbp&wcsuffix=3075&area=view http://www.phschool.com/webcodes10/index.cfm?wcprefix=cbp&wcsuffix=3076&area=view 3. Homework: Osmosis Practice Scenarios 	SB1a
	Friday, 11/4 Benchmark #2 – English	Cell Transport	How is material moved into and out of the cell?	<ol style="list-style-type: none"> 1. Warm Up: Go over Osmosis Practice Scenarios 2. Lesson: Finish Osmosis Lab (Eggs) 3. Homework: Study for Test on Tuesday 	SB1a

NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, OCTOBER 27 – FRIDAY, NOVEMBER 4 (INCLUSIVE).

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 15	Monday, 11/7	Cell Structure and Transport	How is material moved into and out of the cell?	<ol style="list-style-type: none"> 1. Warm Up: Lab Review Questions 2. Lesson: Osmosis Lab Check Test Review 3. HW: Test Tomorrow 	SB1a
	Tuesday, 11/8	Cell Structure and Transport	All Cell Structure and Transport Topics: Cell Theory, People, Structure and Function, and Transport	<ol style="list-style-type: none"> 1. Warm Up: Review Questions 2. Lesson: Cell Test #1 - Cell Theory, People, Structure and Function, and Transport Microscope Notes Microscope Labeling Document #1 and Document #2 3. Homework - Finish microscope reading 	SB1a SCSh2 and 3
	Wednesday, 11/9 Essay – Electives	Microscopes	How is microscope used in the classroom?	<ol style="list-style-type: none"> 1. Warm up: Go over microscope reading 2. Lesson: Microscope Lab 3. Homework: None 	SCSh2 and 3
	Thursday, 11/10	Microscope	How is microscope used in the classroom?	<ol style="list-style-type: none"> 1. Bell Work: Finish Microscope Lab 2. Lesson: Lab Discussion 3. Homework: Microscope Lab Check Tomorrow 	SCSh2 and 3
	Friday, 11/11	Microscope	How is microscope used in the classroom?	<ol style="list-style-type: none"> 1. Bell Work: Microscope Lab Check 2. Lesson: Test Remediation and Reflection Cell Energy Summary Diagram Discussion 3. Homework: None 	SCSh2 and 3 SB3a

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, NOVEMBER 9.

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 16	Monday, 11/14	Cell Energy	How do different cells get and use energy?	<ol style="list-style-type: none"> 1. Warm Up: Cell Energy Diagram Writing 2. Lesson: Cellular Energy Notes - ATP vs. ADP 3. Homework: None 	SB3a
	Tuesday, 11/15	Cell Energy	How do autotrophs make their own energy?	<ol style="list-style-type: none"> 1. Warm up: Equation for Photosynthesis on Board - Ask what they know about it 2. Lesson: Notes on Photosynthesis Photosynthesis Hands Activity 3. Homework: Finish Hands Activity Check Tomorrow 	SB3a
	Wednesday, 11/16	Cell Energy	How do autotrophs make their own energy?	<ol style="list-style-type: none"> 1. Bell Work: Hands Activity Check 2. Lesson: Photosynthesis Computer Lab 3. Homework: Finish Lab (Early AM if no computer at home) 	SB3a
	Thursday, 11/17	Cell Energy	How do autotrophs make their own energy?	<ol style="list-style-type: none"> 1. Warm up: Lab Check 2. Lesson: Go over Lab Check Cell Respiration Notes 3. Homework: None 	SB3a
	Friday, 11/18	Cell Energy	How do autotrophs make their own energy?	<ol style="list-style-type: none"> 1. Warm up: 2. Lesson - Cell Respiration Video and Review Sheet 3. Homework - Have a great holiday! 	SB3a
THANKSGIVING BREAK! 11/21 → 11/25					

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 17	Monday, 11/28	Cellular Energy	How do organisms convert glucose into cellular energy?	<ol style="list-style-type: none"> 1. Warm up: Cell Respiration Questions 2. Lesson: Venn Diagram - Compare Photosynthesis and Cell Respiration 3. Homework: Test Wednesday 	SB3a
	Tuesday, 11/29	Cellular Energy	How do organisms convert glucose into cellular energy?	<ol style="list-style-type: none"> 1. Warm up: Cell Respiration Questions 2. Lesson: Review Activities 3. Homework: Finish Study Guide for Test Tomorrow 	SB3a
	Wednesday, 11/30	Cellular Energy	How do different cells get and use energy? How do autotrophs make their own energy? How do organisms convert glucose into cellular energy?	<ol style="list-style-type: none"> 1. Warm up: 5 Minute Recap 2. Lesson: Cell Energy Test 	SB3a
	Thursday, 12/1	Cellular Energy	Why do cells divide? What are the stages of the cell cycle?	<ol style="list-style-type: none"> 1. Warm Up: Reading pgs. 241-243, create outline 2. Lesson: Notes on why cells divide and the 4 phases of the cell cycle (Cell Division Notes) 3. HW: Cell Cycle Graphic Organizer 	SB1a and SB2c
	Friday, 12/2	Cellular Energy	Why do cells divide? What are the stages of the cell cycle?	<ol style="list-style-type: none"> 1. Warm Up: p. 243 Questions 1-3 2. Lesson: Finish Cell Cycle Notes Cell Cycle Review power point Cell Cycle Clip - Find One 3. HW: Receive Benchmark #3 Review, Complete Page 1 AND 2 	SB1a and SB2c

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 18	Monday, 12/5	Cell Growth and Division	How and why do cells create new identical cells?	<ol style="list-style-type: none"> 1. Warm Up: Page 1 and 2 Questions of Benchmark #3 Review 2. Lesson: Mitosis and Cytokinesis Notes in Foldable 3. HW: Continue Working on Benchmark #3 - Pages 3 and 4 	SB1a and SB2c
	Tuesday, 12/6	Cell Growth and Division	Identify and describe the process that somatic cells use divide?	<ol style="list-style-type: none"> 1. Warm Up: Page 3 and 4 Questions of Benchmark #3 Review 2. Lesson: Mitosis Matching Mitosis Video Clip 3. HW: Continue Working on Benchmark # - Pages 5 and 6 	SB1a and SB2c
	Wednesday, 12/7	Benchmark Review	Benchmark Review	Topic: Scientific Method and Metrics	SB1a and SB2c
	Thursday, 12/8	Benchmark Review	Benchmark Review	Topic: Ecology	All First Semester Standards
	Friday, 12/9	Benchmark Review	Benchmark Review	Topic Biochemistry	All First Semester Standards

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (CCGPS, GPS, AP)
Week 19	Monday, 12/12	Benchmark Review	Benchmark Review	Topic: Cell Structure, Function, Transport, and Energy	All First Semester Standards
	Tuesday, 12/13	Semester Exams (Benchmark #3) – 7th Period			
	Wednesday, 12/14	Semester Exams (Benchmark #3) – 1st & 2nd Periods			
	Thursday, 12/15	Semester Exams (Benchmark #3) – 3rd & 4th Periods			
	Friday, 12/16	Semester Exams (Benchmark #3) – 5th & 6th Periods			

End 1st Semester

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 1	Tuesday, 1/3	FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY			
	Wednesday, 1/4	Cell Growth and Division	Identify and describe the process that somatic cells use divide?	Warm up: Vocabulary Anagram (cytokinesis) 1. Cell Cycle Review 2. Mitosis Lab (virtual version click here http://www.biology.arizona.edu/cell_bio/activities/cell_cycle/cell_cycle.html)	SB1a
	Thursday, 1/5	Cell Growth and Division	Identify and describe the process that gametes use divide?	Warm up: Vocabulary Anagram (meiosis) 1. Mitosis Lab Assessment 2. Meiosis Notes	SB1a
	Friday, 1/6	Cell Growth and Division	Identify and describe the process that gametes use divide?	Warm up: Vocabulary Anagram (synthesis phase) 1. Pass back and review lab assessment 2. Mitosis ppt review 3. Meiosis Notes 4. Meiosis CW/HW Check Tomorrow	SB1a

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 2	Monday, 1/9	Cell Growth and Division	Identify and describe the process that gametes use divide?	Warm up: Vocabulary Anagram (gamete) 1. Meiosis CW/HW Check 2. Finish Meiosis Notes	SB1a
	Tuesday, 1/10	Cell Growth and Division	Identify and describe the process that gametes use divide?	Warm up: Vocabulary Anagram (somatic) 1. Meiosis Lab 2. Meiosis Lab Assessment Tomorrow 3. Cancer Worksheet for Homework 4. Mitosis and Meiosis Test Friday.	SB1a
	Wednesday, 1/11	Cell Growth and Division	Identify and describe the process that gametes use divide?	Warm up: Vocabulary Anagram (diploid) 1. Meiosis Lab Assessment 2. Mitosis vs Meiosis Review 3. Test Tomorrow: study mitosis, meiosis and cancer worksheet	SB1a, e
	Thursday, 1/12	Cell Growth and Division	Identify and describe the process that somatic and gametes use divide?	Warm up: Vocabulary Anagram (haploid) 1. Cell Cycle (Mitosis and Meiosis) Test 2. Genetics Preview Sheet (due Tuesday...CW/HW check)	SB1a, e
	Friday, 1/13	Mendelian Genetics	Who is Gregor Mendel and what did he contribute to genetics?	Warm up: Vocabulary Anagram (genotype) 1. Genetics Preview CW/HW Assessment 2. Review Genetics Preview Sheet	SB2c SCSh9

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 3	Monday, 1/16	MLK HOLIDAY			
	Tuesday, 1/17	Mendelian Genetics	How can scientists predict possible genetic outcomes?	Warm up: Vocabulary Anagram (phenotype) 1. Genetic Notes 2. Punnett Square Practice Problems 3. Sponge Bob Punnett Square HW	SB2c
	Wednesday, 1/18	Mendelian Genetics	How can scientists predict possible genetic outcomes?	Warm up: Vocabulary Anagram (heredity) 1. Sponge Bob Punnett Square HW check 2. Incomplete and CoDominance Notes/Practice Problems 3. Incomplete and Co Dominance HW	SB2c
	Thursday, 1/19	Mendelian Genetics	How can scientists predict possible genetic outcomes?	Warm up: Vocabulary Anagram (genetics) 1. Incomplete and Co Dominance HW 2. Part 2 of Genetic Notes 3. Di-hybrid Problems 4. Di-hybrid HW Problems	SB2c
	Friday, 1/20	Mendelian Genetics	How can scientists predict possible genetic outcomes?	Warm up: Vocabulary Anagram (homozygous) 1. Dihybrid HW Assessment 2. Review for Genetics Test	SB2c

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 4	Monday, 1/23	Genetics Test #1	Genetics Test #1	Warm up: Vocabulary Anagram (dominant) 1. Genetics Test #1 (includes meiosis) 2. Preview Genetic Disorders (color blindness, hemophilia, downs syndrome, Turners syndrome and Klinefelter's Syndrome)	SB2d
	Tuesday, 1/24	Genetic Disorders and Diseases	What are genetic disorders and how can they be detected?	Warm up: Vocabulary Anagram (recessive) 1. Finish Genetic Notes 2. Karyotype Activity 3. HW: Karyotype Questions	SB2d
	Wednesday, 1/25 Essay – English	Genetic Disorders and Diseases	What are genetic disorders and how can they be detected?	Warm up: Vocabulary Anagram (heterzygous) 1. Review karyotype activity 2. Pedigree activity 3. Karyotype and pedigree assessment tomorrow	SB2d
	Thursday, 1/26	Genetic Disorders and Diseases	What are genetic disorders and how can they be detected?	Warm up: Vocabulary Anagram (autosome) 1. Pedigree and karyotype assessment 2. DNA Introduction Notes (song!!)	SB2d
	Friday, 1/27	DNA structure and function	What is DNA and how does it function in our body?	Warm up: Vocabulary Anagram (mutation) 1. DNA Song 2. DNA Notes	SB2a, b

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, JANUARY 25.

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 5	Monday, 1/30	DNA Structure and Function	What is DNA and how does it function in our body?	Warm up: Vocabulary Anagram (nucelotide) 1. Review DNA Notes 2. DNA Model Activity Summary: Journal Choice	SB2a, b
	Tuesday, 1/31	DNA Structure and Function	What is DNA and how does it function in our body?	Warm up: Vocabulary Anagram (adenine) 1. DNA notes section I, II and III	SB2a, b
	Wednesday, 2/1 Essay – Social Studies	DNA Structure and Function	What is DNA and how does it function in our body?	Warm up: Vocabulary Anagram (hydrogen bond) 1. CW Assessment DNA structure and Notes 2. Preview DNA Replication Lab	SB2a, b
	Thursday, 2/2	DNA Structure and Function	How does DNA replicate?	Warm up: Vocabulary Anagram 1. DNA Replication Lab	SB2b
	Friday, 2/3	DNA Structure and Function	How does DNA replicate?	Warm up: Vocabulary Anagram (helix) 1. Review Lab 2. DNA Replication Lab Assessment 3. Protein Synthesis Notes	SB2a,b

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, FEBRUARY 1.

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 6	Monday, 2/6	Protein Synthesis	What is transcription and translation and how do they work?	Warm up: Vocabulary Anagram (ribosome) 1. Finish Protein Synthesis Notes 2. Protein Synthesis Virtual Lab	SB2a,b
	Tuesday, 2/7	Protein Synthesis	What is transcription and translation and how do they work?	Warm up: Vocabulary Anagram (ribosome) 1. Finish Protein Synthesis Virtual Lab 2. Protein Synthesis Manipulatives	SB2a,b
	Wednesday, 2/8	Protein Synthesis	What is transcription and translation and how do they work?	Warm up: Vocabulary Anagram (ribosome) 1. Review Protein Synthesis Virtual Lab 2. Protein Synthesis Practice	SB2a,b
	Thursday, 2/9	Protein Synthesis	What is transcription and translation and how do they work?	Warm up: Vocabulary Anagram (cytoplasm) 1. Protein Synthesis Lab Assessment Tomorrow 2. DNA to Protein Summary (Graphic Organizer).	SB2a,b
	Friday, 2/10 Benchmark #1 – Electives	Protein Synthesis	What is transcription and translation and how do they work?	Warm up: Vocabulary Anagram (nucleus) 1. Protein Synthesis Lab Assessment 2. Computer Lab DNA to Protein On-line Activity for review/summary. 3. Quiz over Replication, transcription and translation Monday.	SB2a,b

NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, FEBRUARY 9 – FRIDAY, FEBRUARY 17 (INCLUSIVE).

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 7	Monday, 2/13 Benchmark #1 – Math	Protein Synthesis	What is transcription and translation and how do they work?	Warm up: Vocabulary Anagram (nucleus) 1. Review Computer Lab DNA to Protein On-line Activity for review/summary. 2. Quiz over Replication, transcription and translation tomorrow.	SB2a,b
	Tuesday, 2/14 Benchmark #1 – English	Protein Synthesis	What is transcription and translation and how do they work?	Warm up: Vocabulary Anagram (amino acid) 1. DNA to Protein Quiz 2. Mutation Notes 3. Mutation Problems (HW)	SB2a,b SB2d
	Wednesday, 2/15	Benchmark Assessment	Benchmark Assessment	Warm up: Vocabulary Anagram (allele) 1. Review BM1	SB1, 2,3, 4, 5
	Thursday, 2/16 Benchmark #1 – Science	Benchmark Assessment	Benchmark Assessment	1. Benchmark 1	SB1, 2,3, 4, 5
	Friday, 2/17 Benchmark #1 – Social Studies	Protein Synthesis and Mutations	What is a mutation? What are the different types of mutations and how do they affect organisms?	Warm up: Vocabulary Anagram (karyotype) 1. Mutation HW Assessment 2. Computer Lab: Biotechnology Web Quest 3. Genetic Test #2 Review Guide	SB2d

NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, FEBRUARY 9 – FRIDAY, FEBRUARY 17 (INCLUSIVE).

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 8	Monday, 2/20	Winter Holiday			
	Tuesday, 2/21				
	Wednesday, 2/22				
	Thursday, 2/23	FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY			
	Friday, 2/24				

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 9	Monday, 2/27	Biotechnology	What is biotechnology? What are applications of biotechnology?	Warm up: Vocabulary Anagram (deletion) 1. Computer Lab Finish BiotechnologyWeb Quest 2. Extra Virtual Lab Resources for Genetic #2 Test Review 3. Rest of Mutations Concept Map Notes 4. Rest of DNA to Mutation Notes	SB2f
	Tuesday, 2/28	Performance Essay	Performance Essay	1. Performance Essay Document Review	TBD
	Wednesday, 3/1 Essay – Science	Performance Essay	Performance Essay	1. Performance Essay	
	Thursday, 3/2	Biotechnology	What is biotechnology? What are applications of biotechnology?	Warm up: Vocabulary Anagram (translocation) 1. Biotechnology Assessment 2. Cloning Video Clip 3. DNA Extraction Lab	SB2f
	Friday, 3/3	Biotechnology	What is biotechnology? What are applications of biotechnology?	Warm up: Vocabulary Anagram (translocation) 1. GMO Debate 2. Test Review (Jeopardy Review ppt)	SB2f

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, MARCH 1.

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 10	Monday, 3/6	Genetic Unit Assessment	Genetic Unit Assessment	Warm up: Vocabulary Anagram (lytic) 1. Genetics #2 Test 2. Evolution Preview	SB1, SB2
	Tuesday, 3/7	Evolution	What is the history of our planet?	Warm up: Vocabulary Anagram (evolution) 1. Evolution Notes Part I and II (answer sheet and power point here) 2. Evolution Unit Essential Questions and Answers	SB5c
	Wednesday, 3/8	Evolution	What is the history of our planet?	Warm up: Vocabulary Anagram (natural selection) 1. Dating Fossils Lab	SB5c
	Thursday, 3/9	Evolution	Who is Charles Darwin and what did he contribute to the Theory of Evolution?	Warm up: Vocabulary Anagram (fossil) 1. Dating Fossils Lab Assessment and Review 2. Evolution Notes III: Natural Selection	SB5a, d
	Friday, 3/10	Evolution	How do organisms/populations change over time?	Warm up: Vocabulary Anagram (divergent) 1. Finish Part III Evolution Notes 2. Natural Selection Web Activity 3. Natural Selection HW Sheets	SB5a, d

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 11	Monday, 3/13	FACULTY AND STAFF PROFESSIONAL LEARNING DAY / STUDENT HOLIDAY			
	Tuesday, 3/14	Evolution	How do organisms/populations change over time?	Warm up: Vocabulary Anagram (cladogram) 1. Natural Selection HW Assessment 2. Fossil Horse Lab: Natural Selection Summary: Journal Choice	SB5a, d
	Wednesday, 3/15	Evolution	What are the different patterns of evolution?	Warm up: Vocabulary Anagram (co-evolution) 1. Fossil Horse Lab Assessment and Review 2. Evolution Notes IV: Mechanism of Evolution Summary: Journal Choice	SB5b
	Thursday, 3/16 Early Release Professional Learning (1 st , 2 nd , 3 rd , 5 th)	Evolution	What are the different patterns of evolution?	Warm up: Vocabulary Anagram (disruptive selection) 1. Finish Section IV Evolution Notes	SB5b
	Friday, 3/17 Early Release Professional Learning (7 th , 6 th , 4 th , 5 th)	Evolution	What are the different patterns of evolution?	Warm up: Vocabulary Anagram (disruptive selection) 1. Finish Section IV Evolution Notes	SB5b

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 12	Monday, 3/20	Evolution	What are the different patterns of evolution?	Warm up: Vocabulary Anagram (gene pool) 1. Genetic Drift Web Activity 2. Genetic Drift HW Sheets	SB5b
	Tuesday, 3/21	Evolution	What are the different patterns of evolution?	Warm up: Vocabulary Anagram (directional selection) 1. Genetic Drift HW Assessment 2. Review Evolution Go-Go-Mo Activity	SB5b
	Wednesday, 3/22 Essay – Math	Evolution	How does evolution affect antibiotics?	Warm up: Vocabulary Anagram (speciation) 1. Antibiotic Lab part 1 2. Evolution Test Review Guide	SB5e
	Thursday, 3/23	Evolution	How does evolution affect antibiotics?	Warm up: Vocabulary Anagram (speciation) 1. Antibiotic Lab part 2 2. Lab Assessment tomorrow	SB5e
	Friday, 3/24	Evolution	How does evolution affect antibiotics?	Warm up: Vocabulary Anagram (relative dating) 1. Antibiotic Lab Assessment and Review 2. Current Event Article Antibiotic Resistant Bacteria	SB5e

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, MARCH 22.

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 13	Monday, 3/27	Evolution	How does evolution affect anti-biotics?	Warm up: Vocabulary Anagram Give me five Antibiotic Resistance 1. Finish Current Event Article Antibiotic Resistant Bacteria 2. Go-Go-Mo Review	SB5
	Tuesday, 3/28	Evolution Unit Assessment	Evolution Unit Assessment	Warm up: Vocabulary Anagram (genetic drift) 1. Evolution Test Review	SB5
	Wednesday, 3/29	Evolution Unit Assessment	Evolution Unit Assessment	Warm up: Vocabulary Anagram (none) 1. Evolution Test 2. Characteristics of Life Notes 3. Virus Introduction Notes	SB5
	Thursday, 3/30	Characteristics of Life and Viruses, Viruses	What are the Characteristics of Life? What are viruses and how do the reproduce?	Warm up: Vocabulary Anagram Give Me Five: Viruses 1. Review Characteristics of Life 2. Lytic and Lysogenic Notes 3. Review Active Art Virus Replication Activity 4. Taxonomy Song 5. Classification Notes for Homework	SB4d
	Friday, 3/31	Classification	Classification of living Things	Warm up: Vocabulary Anagram (kingdom) 1. Virus CW/HW assessment 2. Evolution Test Remediation 3. Taxonomy Song	SB4

SPRING BREAK!

Friday, 4/3 → Friday, 4/7

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 14	Monday, 4/10	Taxonomy and Classification	How are living thing classified?	Warm up: Vocabulary Anagram (taxonomy) 1. Taxonomy Song 2. Kingdom Table/Notes 3. Classification Vitrual lab (Kingdoms) Summary: Journal Choice	SB3b, c
	Tuesday, 4/11	Taxonomy and Classification	What are Dichotomous keys and how are they used?	Warm up: Vocabulary Anagram (eukaryotic) 1. Shark Dichotomous Key Lab Summary: Journal Choice	SB3b, c
	Wednesday, 4/12	Taxonomy and Classification	What are Dichotomous keys and how are they used?	Warm up: Vocabulary Anagram (binomial nomenclature) 1. Shark Lab Assessment 2. Kingdom/Classification Computer Lab Activity Summary: Journal Choice	SB3b, c
	Thursday, 4/13	Taxonomy and Classification	How are living thing classified?	Warm up: Vocabulary Anagram (cladogram) 1. Classification HW Review 2. Preview Cladograms for tomorrow, page 451-456, #1-6 3. DW Assessment tomorrow #2 and #3 Summary: Journal Choice	SB3b, c
	Friday, 4/15 Benchmark #2 – Electives	Taxonomy and Classification	How are living thing classified?	Warm up: Vocabulary Anagram (fossil...index) 1. Cladogram/Molecular Clock Notes 2. Active Art Cladogram/molecular clock activity Summary: Journal Choice	SB3b, c

NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, APRIL 13 – FRIDAY, APRIL 21 (INCLUSIVE).

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 15	Monday, 4/18 Benchmark #2 – English	Taxonomy and Classification	How is a dichotomous key used to identify organisms?	Warm up: Vocabulary Anagram (kingdom) 1. Kingdom Dichotomous Key Activity Summary: Journal Choice	SB3b, c
	Tuesday, 4/19 Benchmark #2 – Math	Taxonomy and Classification	How is a dichotomous key used to identify organisms?	1. Warm up: Vocabulary Anagram (species) 2. Lesson: Finish Kingdom Dichotomous Key Activity Create your own dichotomous key 3. Homework: Finish create your own key Summary: Journal Choice	SB3b, c
	Wednesday, 4/20	Systems and Functions - Bacteria	What characteristics make bacteria unique?	1. Warm Up: Dichotomous key assessment 2. Lesson: Bacteria outline preview 3. Homework: Benchmark Study Guide	SB3b, c
	Thursday, 4/21 Benchmark #2 – Social Studies	Benchmark #2 Review Day	Prepare for benchmark #2.	1. Warm Up: Bacteria Outline Questions 2. Lesson: Benchmark Review 3. Homework: Benchmark Test Tomorrow	SB3b, c All Standards
	Friday, 4/22 Benchmark #2 – Science	Benchmark #2	Benchmark #2	1. Warm Up: None 2. Lesson: Benchmark #2	

NO OTHER MAJOR ASSESSMENTS FROM THURSDAY, APRIL 13 – FRIDAY, APRIL 22 (INCLUSIVE).

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 16	Monday, 4/24	Systems and Functions - Bacteria	What characteristics make bacteria unique?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (prokaryotic) 2. Lesson: Bacteria Notes Bacteria Virtual Lab 3. Homework: Finish Virtual Lab 	SB3b, c
	Tuesday, 4/25	Systems and Functions - Bacteria	What are bacteria and how do they obtain energy and reproduce?	<ol style="list-style-type: none"> 1. Warm up: Bacteria Review Questions (Compare the Two Kingdoms) 2. Lesson: Bacteria Virtual Lab Check Bacteria Active Reading (Bacteria Body Reading) 3. Homework: Study Guide - Test Thursday Viruses, Classification, and Bacteria 	SB3b, c
	Wednesday, 4/26 Essay – Electives	Test Review - Viruses, Classification, and Bacteria	What are the Characteristics of Life? What are viruses and how do they reproduce? What are Dichotomous keys and how are they used? What are bacteria and how do they obtain energy and reproduce?	<ol style="list-style-type: none"> 1. Warm up: Classification Review Questions 2. Lesson: Review Viruses and Bacteria 3. Homework: Test Tomorrow 	SB3b, c
	Thursday, 4/27	Test - Viruses, Classification, and Bacteria	What are the Characteristics of Life? What are viruses & how do they reproduce? What are Dichotomous keys & how are they used? What are bacteria & how do they obtain energy and reproduce?	<ol style="list-style-type: none"> 1. Warm Up: None 2. Lesson: Test (Viruses, Classification, and Bacteria) Protist Reading Notes (Textbook pgs 497 and 498) Section Review Questions - p 505, 509, 515, &, 520 3. Homework: Finish Protist Questions 	SB3b, c
	Friday, 4/28	Systems and Functions - Protists	What are protists and how do they obtain energy and reproduce?	Warm up: Vocabulary Anagram (autotroph) <ol style="list-style-type: none"> 1. Warm Up: Go over protist questions 2. Lesson: Protists Notes (animal-like) 	SB3b, c

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

				3. Homework: None	
--	--	--	--	-------------------	--

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, APRIL 26.

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 17	Monday, 5/1	Systems and Functions	What are protists and how to they obtain energy and reproduce?	<ol style="list-style-type: none"> 1. Warm up: Vocabulary Anagram (decomposer) 2. Lesson: Finish Plant-like and Fungus-like Protist Notes Fun Fungus Find (activity) 3. Homework: 	SB3b, c
	Tuesday, 5/2	Systems and Functions	What are fungus and how to they obtain energy and reproduce?	<ol style="list-style-type: none"> 1. Warm up: MILESTONE MC Question 2. Lesson: Fungus Notes Fungus Activity Sheets 3. Homework: 	SB3b
	Wednesday, 5/3	Systems and Functions	What are plants and how to they obtain energy and reproduce?	Warm up: MILESTONE MC Question <ol style="list-style-type: none"> 1. Fungus DW Assessment 2. Begin Plant Notes Summary: Journal Choice	SB3b
	Thursday, 5/4	Systems and Functions	What are plants and how to they obtain energy and reproduce?	Warm up: MILESTONE MC Question <ol style="list-style-type: none"> 1. Plant Outline Notes 2. Preview Flower Dissection Lab Summary: Journal Choice	SB3b
	Friday, 5/5	Systems and Functions	What are plants and how to they obtain energy and reproduce?	Warm up: MILESTONE MC Question <ol style="list-style-type: none"> 1. Flower Dissection lab Summary: Journal Choice	SB3b
<u>AP Exams</u> Monday, 5/1 – AP Chem, AP Enviro Science, and AP Psych Tuesday, 5/2 – AP Spanish Language Wednesdays, 5/3 – AP English Literature Thursday, 5/4 – AP Government Friday, 5/5 – AP US History, AP Studio Art				<u>Milestones</u> To be determined.	

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 18	Monday, 5/8	Systems and Functions	What are plants and how to they obtain energy and reproduce?	Warm up: MILESTONE MC Question 1. Flower Dissection Lab Assessment 2. Begin Invertebrate Notes Summary: Journal Choice	SB3b
	Tuesday, 5/9	Systems and Functions	What are invertebrates and how to they obtain energy and reproduce?	Warm up: MILESTONE MC Question 1. Invertebrate Notes/Organizer Summary: Journal Choice	SB3b
	Wednesday, 5/10	Systems and Functions	What are vertebrates and how to they obtain energy and reproduce?	Warm up: MILESTONE MC Question 1. Vertebrate Notes /Organizer Summary: Journal Choice	SB3b
	Thursday, 5/11	Systems and Functions	What are vertebrates and how to they obtain energy and reproduce?	Warm up: MILESTONE MC Question 1. Vertebrate Notes /Organizer Summary: Journal Choice	SB3b
	Friday, 5/12	Systems and Functions	What are vertebrates and how to they obtain energy and reproduce?	Warm up: MILESTONE MC Question 1. Vertebrate Notes /Organizer Summary: Journal Choice	SB3b
<u>AP Exams</u> Monday, May 8 – AP Biology Tuesday, May 9 – AP Calculus Wednesday, May 10 – AP English Language and AP Macroeconomics Thursday, May 11 – AP World History and AP Statistics Friday, May 12 – AP Human Geography				<u>Milestones</u> To be determined.	

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 19	Monday, 5/15	Systems and Milestone Review	What are the different types of living things and how to they obtain energy and reproduce?	<ol style="list-style-type: none"> 1. Warm up: MILESTONE MC Question 2. Test Review - Protist, Fungus, Plants and Animals 3. Homework: Study for Test 	All
	Tuesday, 5/16	Systems Test and MILESTONE Review	Systems Test and MILESTONE Review	<ol style="list-style-type: none"> 1. Warm up: MILESTONE MC Question 2. Lesson: Test - Protist, Fungus, Plants and Animals 3. Homework: Milestone Review Packet <p>5 Minute Wrap Up Writing</p>	All
	Wednesday, 5/17	MILESTONE Review	MILESTONE Review	<p>Warm up: MILESTONE MC Question from Yesterday's Topic</p> <p>Begin MILESTONE Review - Discussion of Test Setup and Studying Ideas</p> <p>MILESTONE Review NOS and Scientific Method</p> <p>5 Minute Wrap Up Writing</p>	All
	Thursday, 5/18	MILESTONE Review	MILESTONE Review	MILESTONE Ecology	All
	Friday, 5/19	MILESTONE Review	MILESTONE Review	MILESTONE Cells	All

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE: Regular Biology	SEMESTER: First and Second
TEAM: Michael May, Ashley Rhymer, Valerie Head , Paula Bennett, and Sheldon Karp	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 20 Benchmark Week #3	Monday, 5/22	MILESTONE Review	MILESTONE Review	Genetics and Evolution	All
	Tuesday, 5/23	Semester Exams (Benchmark #3 – 7th)			
	Wednesday, 5/24	Semester Exams (Benchmark #3 – 1st & 2nd)			
	Thursday, 5/25	Semester Exams (Benchmark #3 – 3rd & 4th)			
	Friday, 5/26	Semester Exams (Benchmark #3 – 5th & 6th)			