

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE:	SEMESTER:
TEACHER(S):	

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 Cycle	EQ: What problems does growth cause for cells? What are the main events of the cell cycle?	Warm Up: Read p. 241 On your white boards, list reasons why cells divide? Lesson: Cell Cycle Notes – Interphase (G1, S, G2) and M phase Homework: None	SB1a
	Thursday, 1/5	Cell Cycle and Divison	EQ: What are the main events of the cell cycle? What are the four phases of mitosis?	Warm Up: White Board Questions 1) Why do cells divide? 2) What are the two stages of the cell cycle? 3) What are the three stages of Interphase? 4) A lack of cell cycle regulation can lead to what disorder? Lesson: Stages of Mitosis Notes – Foldable or Regular Notes Homework: Chapter 10 Vocabulary Review (2 Different Options using the textbook)	SB1a
	Friday, 1/6	Cell Cycle and Divison	EQ: What are the main events of the cell cycle? What are the four phases of mitosis?	Warm Up: Board Questions 1) What are the two stages of the cell cycle? 2) What are the four stages of mitosis? 3) What occurs simultaneously along with telophase? 4) Describe the product of the m phase? Lesson: Cell Cycle Check – 12 Points Chapter 10.3 Workbook and Word Wise Cell Cycle and Cancer Virtual Lab (Make Worksheet to go with it) http://www.mhhe.com/biosci/genbio/virtual_labs_2K8/labs/BL_03/index.html Homework: None	SB1a

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Week 2	Monday, 1/9	Cell Cycle and Divison	EQ: What are the four phases of mitosis?	Warm Up: <ol style="list-style-type: none"> 1) What do cyclins regulate? 2) What are the two different types of regulators? 3) How are cancer cells different from most other cells? Lesson: Virtual Onion Root Tip Lab Go over Vocabulary Review Homework (From Thursday) Homework: Finish Root Tip Lab Questions	SB1a
	Tuesday, 1/10	Cell Cycle and Divison	EQ: What happens during the process of meiosis?	Warm Up: Image Identification ½ sheet Root Tip Lab Assessment Lesson: Matching Cards for Mitosis Meiosis Coloring	SB1a
	Wednesday, 1/11	Cell Cycle and Divison	EQ: What happens during the process of meiosis?	Warm Up: Coloring/Cut and Paste Meiosis Flow Chart Lesson: Finish Meiosis Notes – Flow Chart HW: None	SB1a
	Thursday, 1/12	Cell Cycle and Divison	EQ: What happens during the process of meiosis?	Warm Up: Meiosis Video https://www.youtube.com/watch?v=M7ng3U7q_ZM Lesson: Meiosis Manipulatives Lab	SB1a
	Friday, 1/13	Cell Cycle and Divison	EQ: How are meiosis and mitosis different?	Warm Up: Mitosis Matching Lesson: Comparison Chart Mitosis v. Meiosis Mitosis v. Meiosis Check Work on Study Guide HW: Work on Study Guide	SB1a

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 3	Monday, 1/16	MLK HOLIDAY			
	Tuesday, 1/17	Cell Cycle and Divison	What problems does growth cause for cells? What are the main events of the cell cycle? What are the four phases of mitosis? What happens during the process of meiosis? How are meiosis and mitosis different?	Review Day Mitosis Matching Study Guide Homework: Test Tomorrow	SB1a
	Wednesday, 1/18	Cell Cycle and Divison	What problems does growth cause for cells? What are the main events of the cell cycle? What are the four phases of mitosis? What happens during the process of meiosis? How are meiosis and mitosis different?	Warm Up: None Lesson: Test over Cell Division – Chapter 10 and Chapter 11.3 After Test – Chapter 11 Section 1 and 2 Gregor Mendel Questions <u>Gregor Mendel Questions</u> Answer the following questions using your book. Page 263 - 266. 1. What was Mendel’s profession? 2. What type of plant did Mendel use to do his genetic studies and why did he choose this plant? 3. What does it mean to be a true-breeding plant? 4. How does cross-pollinating work and why is it effective? 5. What does F1 stand for in genetics? 6. What are some of the traits of pea plants Mendel studied? 7. What are dominant and recessive? 8. What did Mendel determine about biological inheritance? Homework: None	SB1a

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	Thursday, 1/19	Introduction to Genetics	EQ: How are the products of mitosis and meiosis different? How did Mendel's research support his heredity theories?	Warm Up: Paragraph Writing (20 minutes) – 25 Points Compare and Contrast the products of mitosis and meiosis using the following terms: diploid, haploid, identical, different, gamete, somatic, body, sperm, egg, 4/2 Lesson: Go over Mendel Questions Notes on Probability and Punnett Squares Homework: Genetics Packet (Vocabulary Page)	SB2c
	Friday, 1/20	Probability and Punnett Squares	How can a Punnett square be used to identify inheritance possibilities?	Warm Up: Vocabulary Matching Lesson: Review Basic Punnett Squares Vocabulary Notes on Monohybrid and Dihybrid Crosses along with Practice Problems Homework: Finish Punnett Square Practice	SB2c

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 4	Monday, 1/23	Probability and Punnett Squares	How can a Punnett square be used to identify inheritance possibilities?	Warm Up: Semester 1 Review Questions from BM #3 Analysis Lesson: Monohybrid and Dihybrid Cross Review Incomplete and Codominant Notes with Practice Homework: Practice Problems	SB2c
	Tuesday, 1/24	Probability and Punnett Squares	How can a Punnett square be used to identify inheritance possibilities?	Warm Up: Compare and Contrast Incomplete and Codominant Traits Lesson: Go over incomplete and codominant practice problems. Powerpoint – Back to a monohybrid and dihybrid problems. HW - None	SB2c
	Wednesday, 1/25 Essay – English	Probability and Punnett Squares	How can a Punnett square be used to identify inheritance possibilities?	Warm Up: Complete Dominance, Codominance, and Incomplete Dominance Practice Problems on White Board Lesson: Smiley Faces Lab Homework: None	SB2c
	Thursday, 1/26	Probability and Punnett Squares	How can a Punnett square be used to identify inheritance possibilities?	Warm Up: 2 Slides – Provide type of inheritance and the genotypes of the parents for the cross (Focus on identification and appropriate lettering for genotypes) Lesson: Blood Types Notes and Practice Problems Video Clip - https://www.youtube.com/watch?v=xfZhb6lmxjk Last Page of Packet – 1,3,4,5 HW: Study (Quiz Tomorrow)	SB2c
	Friday, 1/27	Probability and Punnett Squares	How can a Punnett square be used to identify inheritance possibilities?	Warm Up: Quiz (This quiz is 10 vocabulary terms and 10 questions on Mendel's Laws and specific types of Punnett squares) – 20 Points Lesson: Packet with practice problems on incomplete/codominance/multiple alleles (Rhymer) HW: None	SB2c

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COURSE:	SEMESTER:
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NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, JANUARY 25.

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COURSE:	SEMESTER:
TEACHER(S):	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 5	Monday, 1/30	Sex-Linked Traits	How can a Punnett square be used to identify inheritance possibilities?	Warm Up: Multiple Alleles Review and Practice Problems Lesson: Sex-Linked Punnett Square Notes Example Problems Finish all Problems on final page of Packet	SB2c
	Tuesday, 1/31	Sex – Linked Traits	How can a Punnett square be used to identify inheritance possibilities?	Warm Up: Sex Linked Practice Problems Lesson: Punnett Square Check Sex-Linked traits Lab	SB2c
	Wednesday, 2/1 Essay – Social Studies	Pedigree	How can a Punnett square be used to identify inheritance possibilities?	Warm Up: How to read a pedigree Lesson: Sex-Linked Lab Check Pedigree Practice (Go over together) Homework: Work on Study Guide	SB2c
	Thursday, 2/2	Review Day	How can a Punnett square be used to identify inheritance possibilities?	Review Day 1) On the board summary of unit 2) Quizlet Live or work on their own Homework: Test Tomorrow	SB2c
	Friday, 2/3	Mendelian Genetics Test	How can a Punnett square be used to identify inheritance possibilities?	Test 12.1 History of DNA Questions	SB2c

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, FEBRUARY 1.

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COURSE:	SEMESTER:
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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 6	Monday, 2/6	The History of DNA Discovery	What are the major experimental advances which lead to the discovery of DNA's function and structure?	Warm Up: Dimples Pedigree Example (Draw their own) Lesson: Go over History Review Questions (Ch 12.1) HW: None	SB2b
	Tuesday, 2/7	Nucleotide and DNA structure	What are the components of the DNA nucleotide? How are these connected to make the polymer DNA?	Warm Up: Review Parts of a Reading a Pedigree, Work Example of Sex-Linked Pedigree on White Boards Lesson: DNA Structure Notes and Coloring for Parts Identification. (Focus on Structure of Nucleotide and the Double Helix) HW: None	SB2b
	Wednesday, 2/8	Pedigree and DNA structure	How are pedigrees used to identify genotypes? What are the different parts of the DNA structure?	Warm Up: Lesson: Flipnob Pedigree DNA Structure Worksheet HW: Check Tomorrow over classwork	SB2b
	Thursday, 2/9	DNA Structure and Replication	What are the different parts of the DNA structure? How does DNA make copies of itself for division?	Warm Up: History Review Questions and DNA structure questions Lesson: Classwork Check DNA Structure Manipulative HW: None	SB2b and SB2d
	Friday, 2/10 Benchmark #1 – Electives	DNA Structure and Replication	How does DNA make copies of itself for division?	Warm Up: BM #1 Review Questions Lesson: DNA Replication Notes DNA Summary Concept Map (Notes Packet) Review Questions (Notes Packet) Adding Tape Activity/DNA Beads Lab HW: Finish Cut and Paste DNA	SB2b and SB2d

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

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COURSE:	SEMESTER:
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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 7	Monday, 2/13 Benchmark #1 – Math	Mutations and Karyotypes		Warm Up: Benchmark #1 Review Questions Lesson: Finish Mutation and Karyotype Notes Video Clip: http://study.com/academy/lesson/karyotype-definition-disorders-analysis.html Begin Karyotype Lab HW: Benchmark #1 Study Guide	SB2d SB2f
	Tuesday, 2/14 Benchmark #1 – English	Mutations and Karyotypes		Warm Up: Benchmark #1 Review Questions Lesson: Finish Karyotype Lab Work on Study Guide HW: Benchmark #1 Study Guide (Check on Lab Tomorrow)	SB2d SB2f
	Wednesday, 2/15	BM #1 Review		Warm Up: Lab Check Lesson: Review for Benchmark HW: Benchmark #1 Study Guide	SB1a SB2c SB2b SB2d SB2f
	Thursday, 2/16 Benchmark #1 – Science	BM #1	Benchmark #1 Topics 1 st Semester Cell Reproduction Genetics Inheritance DNA Structure and Replication	Benchmark #1	SB1a SB2c SB2b SB2d SB2f
	Friday, 2/17 Benchmark #1 – Social Studies	Mutations and Karyotypes	How are karyotypes used to identify disorders?	Warm Up: Finish Bug Karyotype Lesson: Webpage http://learn.genetics.utah.edu/content/disorders/ Look up one single gene disorder and one chromosomal abnormality. Answer the following questions: 1) What is wrong with the DNA for that individual? 2) What are symptoms of this disorder? 3) How is it diagnosed? 4) How can it be treated?	SB1a

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

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COURSE:	SEMESTER:
TEACHER(S):	

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				

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 9	Monday, 2/27				
	Tuesday, 2/28				
	Wednesday, 3/1 Essay – Science				
	Thursday, 3/2				
	Friday, 3/3				

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, MARCH 1.

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COURSE:	SEMESTER:
TEACHER(S):	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 10	Monday, 3/6				
	Tuesday, 3/7				
	Wednesday, 3/8				
	Thursday, 3/9				
	Friday, 3/10				

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COURSE:	SEMESTER:
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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				
	Wednesday, 3/15				
	Thursday, 3/16 Early Release Professional Learning (1 st , 2 nd , 3 rd , 5 th)				
	Friday, 3/17 Early Release Professional Learning (7 th , 6 th , 4 th , 5 th)				

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COURSE:	SEMESTER:
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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 12	Monday, 3/20				
	Tuesday, 3/21				
	Wednesday, 3/22 Essay – Math				
	Thursday, 3/23				
	Friday, 3/24				

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, MARCH 22.

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COURSE:	SEMESTER:
TEACHER(S):	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 13	Monday, 3/27				
	Tuesday, 3/28				
	Wednesday, 3/29				
	Thursday, 3/30				
	Friday, 3/31				
SPRING BREAK! Friday, 4/3 → Friday, 4/7					

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 14	Monday, 4/10				
	Tuesday, 4/11				
	Wednesday, 4/12				
	Thursday, 4/13				
	Friday, 4/15 Benchmark #2 – Electives				

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

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COURSE:	SEMESTER:
TEACHER(S):	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 15	Monday, 4/18 Benchmark #2 – English				
	Tuesday, 4/19 Benchmark #2 – Math				
	Wednesday, 4/20				
	Thursday, 4/21 Benchmark #2 – Social Studies				
	Friday, 4/22 Benchmark #2 – Science				

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

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COURSE:	SEMESTER:
TEACHER(S):	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 16	Monday, 4/24				
	Tuesday, 4/25				
	Wednesday, 4/26 Essay – Electives				
	Thursday, 4/27				
	Friday, 4/28				

NO OTHER MAJOR ASSESSMENTS ON WEDNESDAY, APRIL 26.

Buford High School CURRICULUM CALENDAR 2016-2017

COURSE:	SEMESTER:
TEACHER(S):	

WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 17	Monday, 5/1				
	Tuesday, 5/2				
	Wednesday, 5/3				
	Thursday, 5/4				
	Friday, 5/5				
<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.	

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WEEK	DAY	CONCEPT	OBJECTIVES	INSTRUCTIONAL STRATEGIES	STANDARDS (GSE, AP)
Week 18	Monday, 5/8				
	Tuesday, 5/9				
	Wednesday, 5/10				
	Thursday, 5/11				
	Friday, 5/12				
<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.	

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Week 19	Monday, 5/15				
	Tuesday, 5/16				
	Wednesday, 5/17				
	Thursday, 5/18				
	Friday, 5/19				

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