



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE

**Semester 2 Department: Science Course: College Prep Biology Instructor(s): Dillard, Gibson, Knoepke, Kozik, Piper, Slusinski, Smith, Stiglic**

*The Homewood-Flossmoor High School Course Scope & Sequence provides parents and students with a semester-long overview of each class that we offer. **An instructor may alter a course's scope & sequence as needed.** Students are responsible for keeping track of due dates and other pertinent course information in their H-F Student Planners. Parents, please contact your child's teacher by telephone or e-mail to clarify any questions you may have about the scope & sequence of a particular course.*

WEEK	STANDARDS	INSTRUCTIONAL CONTENT	ACTIVITIES, READINGS, LABS, AND/OR ASSIGNMENTS	MAJOR ASSESSMENTS	OTHER
Week # 1	S.I.b.2 S.I.b.3	Mendelian Genetics	Monohybrid Crosses Dihybrid Crosses (Punnett Squares)	Monohybrid Crosses (Punnett Squares) Dihybrid Crosses (Punnett Squares) practice	Reading Strategies- Connecting, Questioning, Predicting, Note Taking, Inferring
WEEK #2 1/20 ó 1/23 No school: 1/20	S.I.b.2 S.I.b.3	Genetics	Types of Dominance Blood types and Codominance	Punnett Squares	Reading Strategies- Connecting, Questioning, Predicting, Note Taking, Inferring, Imaging
WEEK #3 1/26 ó 1/30	S.I.b.2 S.I.b.3	Genetics	Sex Linkage	Punnett Squares Baby Lab	Reading Strategies- Connecting, Questioning, Predicting, Note Taking, Inferring, Imaging
WEEK #4	S.I.b.2	Genetics	Pedigrees	Pedigree Project	Reading Strategies-



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2/2 ó 2/6	S.I.b.3			Unit Exam	Connecting, Questioning, Predicting, Note Taking, Inferring, Imaging
WEEK #5 2/9 - 2/13	S.I.b.2 S.I.b.3	DNA Technology	DNA Technology Genetically Modified Organisms Ethics Gene Therapy	Restriction Enzyme Activities	Reading Strategies-Connecting, Questioning, Predicting, Note Taking, Inferring, Imaging
WEEK #6 2/16 ó 2/20 No School: 2/16	S.I.b.2 S.I.b.3	DNA Technology	DNA Profiling Electrophoresis Forensics Human Genome Evolutionary Divergence	Gel Electrophoresis Lab Unit Exam	Reading Strategies-Connecting, Questioning, Predicting, Note Taking, Inferring, Imaging
WEEK #7 2/23 ó 2/27	S.I.b.2 S.I.b.3	Evolution	Geologic Time Origin Fossil Record	Geologic Time Scale Lab Fossil Lab	Reading Strategies-Connecting, Questioning, Predicting, Note Taking, Inferring, Imaging
WEEK #8 3/2 ó 3/6 No School: 3/3 & 3/6	S.I.b.2 S.I.b.3	Evolution	Darwin Natural Selection Natural Selection in Action Fossil Evidence Comparative Anatomy	Adaptation Activities Natural Selection On-Line Activity	Reading Strategies-Connecting, Questioning, Predicting, Note Taking, Inferring, Imaging
WEEK #9 3/9 - 3/13	S.I.b.2 S.I.b.3	Evolution	Evolutionary Tree Populations	Invent an Animal Unit Exam	Reading Strategies-Connecting,



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			Genetic Variation Genetic Drift		Questioning, Predicting, Note Taking, Inferring, Imaging
WEEK #10 3/16 ó 3/20	S.I.b.2 S.I.b.3	Ecology	Biosphere Physical & Chemical Factors Adaptations Aquatic Biomes Terrestrial Biomes	Bio-Pond Activity Adaptation Activity	Reading Strategies- Connecting, Questioning, Predicting, Note Taking, Inferring, Imaging
WEEK #11 3/23 ó 3/27 End of 3 <sup>rd</sup> Quarter	S.I.b.2 S.I.b.3	Ecology	Types of Biomes Communities Interactions Competition Mutualism	Biome Activity	Reading Strategies- Connecting, Questioning, Predicting, Note Taking, Inferring, Imaging
WEEK #12 4/6 ó 4/10 No School: 4/10	S.I.b.2 S.I.b.3	Ecology	Predation Parasites Trophic Level Food Chains & Webs Biomass	Food Chain Activity Unit Exam	
WEEK #13 4/20 ó 4/24 PSAE/ECRA testing 4/23 & 4/24	S.I.b.2 S.I.b.3	Systems - Digestion	Overview Structures Accessories Oral Cavity	Dissection Lab	
WEEK #14 4/17 ó 5/1	S.I.b.2 S.I.b.3	Systems - Digestion	Peristalsis Stomach Ulcers	Dissection Lab	



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WEEK #15 5/4 ó 5/8	S.I.b.2 S.I.b.3	Systems - Digestion	Small Intestine Liver Large Intestine	Dissection Lab	
WEEK #16 5/11 ó 5/15	S.I.b.2 S.I.b.3	Systems - Respiratory	Overview of Gas Exchange Comparative Human Respiratory System Breathing Gas Exchange	Dissection Lab Respiratory Lab	
WEEK #17 5/18 ó 5/22	S.I.b.2 S.I.b.3	Systems - Circulatory	Open vs. Closed Circulatory Systems System Functioning	Heart Video Dissection Lab	
WEEK #18 5/25 ó 5/29 No School: 5/25 SeniorsøLast Day: 5/29	S.I.b.2 S.I.b.3	Systems - Circulatory	Heart Blood	Dissection Lab	
WEEK #19 6/1 ó 6/5 Final Exams 6/3 ó 6/4					