



## HOMWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



**Semester 1, '11 – '12**      **Department: Science**      **Course: Honors Zoology/Botany**      **Instructor(s): C Stiglic**  
This course is aligned to:      **College Readiness Standards and/or College Board Standards**

*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.*

<b>WEEK</b>	<b>College Readiness Standards</b>	<b>INSTRUCTIONAL CONTENT</b>	<b>ACTIVITIES, READINGS, LABS, AND/OR ASSIGNMENTS</b>	<b>MAJOR ASSESSMENTS</b>	<b>OTHER</b>
<b>WEEK #1 8/17 – 8/19</b>	S.I.a. S.II.c.	-Go over course materials: Description, class procedures and policies - Animal Policies 2 Truths : 1 Lie Intro	-Animal care article - Chapter 1, Science of Zoology in Zoology text	-signed safety contract -signed animal contract -Science of Zoology review questions 1-13	
<b>WEEK #2 8/22 – 8/26</b>	S.I.b. S.III.c.	-Zoology and Botany Basic Terminology Notes	-Read Introduction to Noah's Garden reading analysis -Newspaper articles related to local environmental issues	-Outdoor activity -Tree ID	Journal work Bio-Pond
<b>WEEK #3 8/29 – 9/2 PLC 9/2</b>	S.I.b. S.I.c. S.II.c.	-Wildlife Terminology -Terminology Notes	-Read Chapter 1 - What is Plant Biology in Plant Biology text -Read Chapter 2 in Noah's Garden reading analysis	-Is Your Campus Wildlife Friendly -Tree ID	Journal work Bio-Pond



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<b>WEEK #4</b> <b>9/5 – 9/9</b> <b>9/5 no</b> <b>school</b>	S.I.b. S.I.c.	-Flower Notes -Terminology Notes	-Read Chapter 3 in Noah's Garden reading analysis -Bio-pond flower activity	-Activity of Flower Identification -What is Plant Biology 2-column notes	Journal Work Bio-Pond
<b>WEEK #5</b> <b>9/12 – 9/16</b>	S.I.b. S.III.c.	-Understanding Bird Behavior Notes -Understanding Bird Training Notes	-Parrot Training Video -Feathers of Flight video -Inspiration Assignment of Household Hazards for Birds in T3	-Bird Inspiration Assignment - What is Plant Biology review questions 1-6, discussion questions 1- 5	Journal Work
<b>WEEK #6</b> <b>9/19 – 9/23</b> <b>PLC 9/23</b>	S.I.b. S.I.c. S.III.c.	-Dichotomous Keys -Tree Identification notes	-Activity - Fish dichotomous key -Activity of Leaf dichotomous key -Discussion of Plant related newspaper articles -Terminology Review Packet	- Leaf Project -Terminology Test	Journal Work
<b>WEEK #7</b> <b>9/26 – 9/30</b>	S.I.b. S.III.c.	-Organic Evolution Notes -Adaptation Notes	-Adaptation Activity in T3 -Adaptation Video - Ch 6, Organic Evolution in Zoology text	-Final adaptation poster -Life of mammals Video notes - Organic Evolution review questions 1-22	Collect Journal Work



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<b>WEEK #8</b> <b>10/3 – 10/7</b> <b>PLC 10/7</b>	S.I.b. S.I.c.	-Classification Notes -Maintenance I Notes	-Read Chapter 4 in Noah's Garden reading analysis -Newspaper articles related to local animal issues -Chapter 10, Classification in Zoology text	-Life of Mammals Video notes -Animal Classification Project	Journal Work
<b>WEEK #9</b> <b>10/10 – 10/14</b> <b>10/10 no school</b>	S.I.b. S.III.c.	-Maintenance I Notes -Leaf Notes	-Read Chapter 5 in Noah's Garden reading analysis -Chapter 7, Leaves in the Plant Biology text	- Classification - Zoology Review 1-11	Journal Work Arboretum Field Trip
<b>WEEK #10</b> <b>End of 1<sup>st</sup> Quarter</b> <b>10/17 – 10/21</b>	S.I.b. S.I.c.	-Finish Maintenance I Notes	-Maintenance I Activity -Maintenance I Review Packet	-Leaves review questions 1-8 & discussion questions 1-5 -Maintenance I Test	Collect Journal Work



## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



<b>2<sup>nd</sup> Quarter</b>					
<b>WEEK #11</b> <b>10/24 –</b> <b>10/28</b> <b>PLC 10/28</b>	S.I.b. S.III.c.	-Maintenance II Notes	-Read Chapter 6 in Noah's Garden reading analysis	-TOL-Homemaking Notes Blue Planet Open Oceans Notes	Journal Work
<b>WEEK #12</b> <b>10/31 – 11/4</b> <b>PLC 11/4</b>	S.I.b. S.I.c.	-Maintenance II Notes -Bird Notes	-Form and Function Activity -Read Ch 6, Stems in Plant Biology Text	-LOM ó Insect Hunters Notes -Stems Review Questions 1-10, Discussion Questions 1-5	Journal Work
<b>WEEK #13</b> <b>11/7 – 11/11</b> <b>11/11 no school</b>	S.I.b. S.III.c.	-Maintenance II Notes -Habitat Behaviors	-Read Chapter 7 in Noah's Garden reading analysis -Habitat Adaptation Lab	-Habitat Adaptation Poster	Journal Work
<b>WEEK #14</b> <b>11/14 –</b> <b>11/18</b> <b>PLC 11/18</b>	S.I.b. S.I.c.	-Finish Maintenance II Notes -Animal Behavior Notes	-Read Chapter 8 in Noah's Garden reading analysis -Read Ch 36, Animal Behavior in the Zoology Text -Maintenance II Study Guide	-Animal Behavior Review Questions 1-16 -Maintenance II Test	Collect Journal Work
<b>WEEK #15</b> <b>11/21 –</b> <b>11/25</b> <b>11/24 &amp;</b> <b>11/25 no</b>	S.I.b. S.I.c.	-Maintenance III Notes -Animal Awareness Notes	-Animal Awareness work in T-Lab	-Black Market Birds video notes -Dog Fighting Video Notes	Journal Work



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<b>WEEK #16</b> <b>11/28 – 12/2</b>	S.I.b. S.I.c. S.III.d.	-Maintenance III Notes	-Read Chapter 9 in Noah's Garden reading analysis -Animal Awareness work in T-Lab	-War Dogs Video Notes -Puppy Mills video notes	Journal Work
<b>WEEK #17</b> <b>12/5 – 12/9</b> <b>PLC 12/9</b>	S.I.b. S.I.c. S.III.d.	-Maintenance III Notes -Plant Propagation	-Read Ch 14, Plant Propagation in Plant Biology Text	-Animal Awareness Project -LOM Chisellers -Plant Propagation Review Questions 1-6, Discussion Questions 1-5	Journal Work
<b>WEEK #18</b> <b>12/12 – 12/16</b>	S.I.b. S.I.c.	Maintenance III Notes	-Read Chapter 10 in Noah's Garden reading analysis -Maintenance III Study Guide	-Maintenance III Test	Journal Work
<b>WEEK #19</b> <b>1/4 – 1/6</b>	S.I.b. S.I.c.	-Understanding Greenhouses	Read Ch 11, Growth in Plant Biology Text	Growth Review Questions 1-10 & Discussion Questions 1-5	Collect Journal Work
<b>WEEK #20</b> <b>Finals</b> <b>1/9 – 1/13</b> <b>1/12 &amp; 1/13</b> <b>No school</b>		Semester Review		-Final Exams -Semester Review Packet	



# HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE





## HOMEWOOD-FLOSSMOOR HIGH SCHOOL COURSE SCOPE & SEQUENCE



**Semester 2**

**Department: Science**

**Course: Zoology/Botany**

**Instructor(s): C Stiglic**

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<b>WEEK</b>	<b>College Readiness Standards</b>	<b>INSTRUCTIONAL CONTENT</b>	<b>ACTIVITIES, READINGS, LABS, AND/OR ASSIGNMENTS</b>	<b>MAJOR ASSESSMENTS</b>	<b>OTHER</b>
<b>WEEK #1 1/16 – 1/20 1/16 no school</b>	S.I.b. S.I.c.	Interspecific I notes <ul style="list-style-type: none"> <li>• Optimal Feeding Theory</li> <li>• GUT</li> <li>• Foraging</li> </ul>	<ul style="list-style-type: none"> <li>• Wings of the Serengeti</li> <li>• Snake Adaptations</li> <li>• Snakes of Illinois</li> </ul>	<ul style="list-style-type: none"> <li>• Video notes</li> <li>• Snake project write-up</li> </ul>	<ul style="list-style-type: none"> <li>• Journal Work ó Zoo Articles</li> </ul>
<b>WEEK #2 1/23 – 1/27 PLC 1/27</b>	S.I.b. S.III.d.	Interspecific I notes <ul style="list-style-type: none"> <li>• How Predation Began</li> <li>• Hunting in Groups</li> <li>• Choice of Prey</li> <li>• Electrostatic Forces</li> </ul>	<ul style="list-style-type: none"> <li>• Reptile Adaptations</li> <li>• Gorillas of the Mist</li> <li>• Zoo Exhibit PPT</li> </ul>	<ul style="list-style-type: none"> <li>• Interspecific Quiz</li> <li>• Reptile Activity Write-Up</li> </ul>	<ul style="list-style-type: none"> <li>• Notes</li> <li>• Journal Work ó Zoo Articles</li> </ul>
<b>WEEK #3 1/30 – 2/3</b>	S.I.b. S.III.d.	Interspecific I notes <ul style="list-style-type: none"> <li>• Hunting and Capture Intro</li> </ul> Zoo Exhibit Design	<ul style="list-style-type: none"> <li>• Bird Adaptation Activity</li> <li>• Zoo Exhibit Design</li> <li>• Smithsonian Zoo</li> </ul>	<ul style="list-style-type: none"> <li>• Bird Activity</li> <li>• Video notes</li> <li>• Interspecific I Study Guide</li> </ul>	<ul style="list-style-type: none"> <li>• Zoo Exhibit Plan</li> <li>• Notes</li> <li>• Field Museum</li> <li>• Library Research</li> </ul>



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<b>WEEK #4</b> <b>2/6 – 2/10</b> <b>PLC 2/10</b>	S.I.b. S.I.c.	Interspecific I Notes <ul style="list-style-type: none"> <li>• Predator Killing</li> <li>• Antipredator Defenses</li> </ul> Zoo Exhibit Design	<ul style="list-style-type: none"> <li>• Animal Behavior Readings</li> <li>• Zoo Exhibit Design</li> <li>• San Diego Zoo</li> </ul>	<ul style="list-style-type: none"> <li>• Interspecific I Test</li> <li>• Video notes</li> <li>• Zoo Exhibit Proposal</li> </ul>	<ul style="list-style-type: none"> <li>• Zoo Exhibit Design</li> <li>• Notes</li> <li>• Journal Work ó Zoo Articles</li> </ul>
<b>WEEK #5</b> <b>2/13 – 2/17</b>	S.I.b. S.I.c.	Zoo Exhibit Design	<ul style="list-style-type: none"> <li>• Zoo Exhibit Materials</li> <li>• Zoo Paper</li> <li>• Zoo Blue Print</li> </ul>	<ul style="list-style-type: none"> <li>• Zoo Exhibit Presentation ó PPT, Posters, Brochure, Paper, Model</li> </ul>	<ul style="list-style-type: none"> <li>• Notes</li> <li>• Journal Work ó Zooø</li> <li>• Library Research</li> </ul>
<b>WEEK #6</b> <b>2/20 – 2/24</b> <b>2/20 No school</b> <b>PLC 2/24</b>	S.I.b. S.III.c.	Green House work <ul style="list-style-type: none"> <li>• Plantings</li> <li>• Requirements</li> <li>• Growth</li> <li>• Horticulture Info</li> </ul> Understanding Red Worms	<ul style="list-style-type: none"> <li>• Plant Propagation and Breeding ó Plant Bio Text</li> <li>• Use of fertilizer</li> <li>• Plant Video</li> </ul>	<ul style="list-style-type: none"> <li>• Plant Quiz</li> <li>• 2-column notes Ch 14 (Plant Breeding and Propagation)</li> </ul>	<ul style="list-style-type: none"> <li>• Plant growth journal</li> <li>• Journal Work ó Zooø</li> <li>• Plant Bio Text</li> </ul>
<b>WEEK #7</b> <b>2/27 – 3/2</b>	S.I.b. S.III.c.	Interspecific II Notes <ul style="list-style-type: none"> <li>• Non-trophic Interactions</li> <li>• Interspecific Interactions - detail</li> </ul>	<ul style="list-style-type: none"> <li>• Common Relationships Activity</li> <li>• Green House work</li> <li>• TOL - Hunting</li> </ul>	<ul style="list-style-type: none"> <li>• Relationship Comic Strip</li> <li>• Ch 14 Questions (1-6)</li> </ul>	<ul style="list-style-type: none"> <li>• Plant growth journal</li> <li>• Plant Bio Text</li> </ul>



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<b>WEEK #8</b>  <b>3/5 – 3/9</b> <b>3/5 no school</b>	S.I.b. S.III.c.	Interspecific II Notes <ul style="list-style-type: none"> <li>• Predator-Prey Relationships</li> <li>• Commensalism</li> </ul>	<ul style="list-style-type: none"> <li>• Super Predators Video</li> <li>• TOL ó Fighting</li> <li>• Predator Adaptation Activity</li> <li>• Green House Work</li> </ul>	<ul style="list-style-type: none"> <li>• Notes</li> <li>• Super Predator Write-up</li> </ul>	<ul style="list-style-type: none"> <li>• Plant growth journal</li> </ul>
<b>WEEK #9</b> <b>3/12 – 3/16</b> <b>PLC 3/16</b>	S.I.b. S.III.c.	Interspecific II Notes <ul style="list-style-type: none"> <li>• Mutualism</li> <li>• Parasitism</li> <li>• Co-Evolution</li> </ul>	<ul style="list-style-type: none"> <li>• RAFT ó Super Predator Boot Camp</li> </ul>	<ul style="list-style-type: none"> <li>• RAFT work</li> <li>• Interspecific II Study Guide</li> </ul>	<ul style="list-style-type: none"> <li>• Plant growth journal</li> </ul>
<b>WEEK #10</b> <b>End of 3<sup>rd</sup> Quarter:</b> <b>3/19 – 3/23</b>	S.I.b. S.I.c.	Interspecific II Notes	<ul style="list-style-type: none"> <li>• Interspecific review</li> <li>• Green House Work</li> </ul>	<ul style="list-style-type: none"> <li>• Interspecific II Test</li> <li>• Journal Work</li> </ul>	<ul style="list-style-type: none"> <li>• Plant growth journal</li> </ul>



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<b>4<sup>th</sup> Quarter</b>					
<b>WEEK #11</b> <b>4/2 – 4/6</b> <b>4/6 no school</b>	S.I.b. S.III.c.	Biome Notes Reproduction I Intro	<ul style="list-style-type: none"> <li>• Land Biome Project</li> <li>• Green House Work</li> </ul>	<ul style="list-style-type: none"> <li>• Biome PPT</li> <li>• Ch 24 - Plant Bio Text ó Biomes Questions (1-4)</li> <li>• Zoology Text ó Ch 37</li> </ul>	<ul style="list-style-type: none"> <li>• Journal - Biomes</li> <li>• Plant Bio Text</li> <li>• Zoology Text</li> </ul>
<b>WEEK #12</b> <b>4/9 – 4/13</b> <b>PLC 4/13</b>	S.I.b. S.I.c.	Reproduction I Notes <ul style="list-style-type: none"> <li>• Isogamy vs Anisogamy</li> <li>• Sexual Selection</li> </ul>	<ul style="list-style-type: none"> <li>• Aquatic Biome Project</li> <li>• Green House Work</li> </ul>	<ul style="list-style-type: none"> <li>• Biome Brochure</li> </ul>	<ul style="list-style-type: none"> <li>• T ó Building</li> <li>• Plant Biology Text</li> </ul>
<b>WEEK #13</b> <b>4/16 – 4/20</b>	S.I.b. S.III.c.	Reproduction I Notes <ul style="list-style-type: none"> <li>• Estrus vs Menstrual cycles</li> <li>• Courtship Behaviors</li> </ul>	<ul style="list-style-type: none"> <li>• Understanding Courtship Behavior Activity</li> <li>• TOL - Courtship</li> </ul>	<ul style="list-style-type: none"> <li>• Courtship Write-up</li> </ul>	<ul style="list-style-type: none"> <li>• Journal ó Plants</li> <li>• Zoology Text ó Animal Behavior Ch 36</li> </ul>
<b>WEEK #14</b> <b>4/23 – 4/27</b>	S.I.b. S.I.c.	Reproduction I Notes <ul style="list-style-type: none"> <li>• Copulation</li> <li>• Sexual Maturity</li> <li>• Sexual Selection</li> <li>• Who's the Daddy</li> </ul>	<ul style="list-style-type: none"> <li>• RAFT ó Reproduction</li> <li>• TOL - Mating</li> </ul>	<ul style="list-style-type: none"> <li>• RAFT Work</li> <li>• Zoo Exhibit Design Write-Up</li> </ul>	<ul style="list-style-type: none"> <li>• Zoo Field Trip</li> </ul>



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<b>WEEK #15</b> <b>4/30 – 5/4</b> <b>PLC 5/4</b>	S.I.b. S.III.c.	Reproduction I Notes <ul style="list-style-type: none"> <li>• Intersexual Selection</li> <li>• Executive Syndrome</li> <li>• Sperm Transfer Mechanisms</li> </ul>	<ul style="list-style-type: none"> <li>• Reproduction Project ó PPT</li> <li>• Zoology Text ó Reproduction Ch 7</li> </ul>	<ul style="list-style-type: none"> <li>• Reproduction PPT Project</li> <li>• Zoology Text questions ó Ch 7</li> </ul>	<ul style="list-style-type: none"> <li>• T ó Building</li> <li>• Reproduction Research</li> </ul>
<b>WEEK #16</b> <b>5/7 – 5/11</b>	S.I.b. S.I.c.	Reproduction I Notes <ul style="list-style-type: none"> <li>• Parental Investment</li> <li>• Development</li> </ul>	<ul style="list-style-type: none"> <li>• Reproduction Packet</li> </ul>	<ul style="list-style-type: none"> <li>• Reproduction Test</li> <li>• Reproduction Packet</li> </ul>	<ul style="list-style-type: none"> <li>• Zoology Text Work</li> </ul>
<b>WEEK #17</b> <b>5/14 – 5/18</b> <b>PLC 5/18</b>	S.I.b. S.III.c.	Landscape Design <ul style="list-style-type: none"> <li>• Pesticides, herbicides, fertilizers</li> <li>• Annuals vs Perennials</li> </ul>	<ul style="list-style-type: none"> <li>• Soil Lab</li> <li>• Prairie Species Plantings</li> </ul>	<ul style="list-style-type: none"> <li>• Soil Lab Write-Up</li> <li>• Plant Bio Text ó Ch 24 ó Flowering Plants</li> </ul>	<ul style="list-style-type: none"> <li>• Plant Bio Text</li> <li>• Computer Research</li> </ul>
<b>WEEK #18</b> <b>Last day for seniors</b> <b>5/21 – 5/25</b>	S.I.b. S.I.c.	Landscape Design Zones Coloration Flower Types and Requirements	Landscape Design Project	Landscape Project Journal work	Blue Print Landscape Design
<b>WEEK #19</b> <b>Final Exams</b> <b>5/28 – 6/1</b>		Seniors are finished			



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<b>5/28 no school</b>					
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