## Jefferson City Public Schools-Curriculum

SUBJECT:	Elementary	
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COURSE: EER

## **STRAND: Insect Investigations**

Objectives	Assessment/Evaluation	Instructional Activities
A) Know the parts of an insect and understand the important roles insects fulfill  Performance: 1.2, 1.5, 1.6, 1.8, 1.10  Knowledge: (SC) 3,4,8  SCGLE: SC.3.1.Aa,B (Gr. 6); SC4.1.Aab (Gr. 4);  SC4.1.Aa, Ba-c (Gr. 6)  NETS: (3-5) 8  DOK: 1,2	Bill Nye Video Worksheet     KWL Foldable	Bill Nye insect video     KWL
B) Become familiar with and be able to use dichotomous keys to identify insects  Performance: 1.6, 1.7, 1.8, 2.4, 3.1, 3.5, 3.6  Knowledge: (SC) 3  CAGLE: R.3.C (Gr. 6)  SCGLE: SC3.1.E; SC3.2.Ca (All Gr. 5)  NETS: (3-5) 4  DOK: 3,4	Dichotomous Key quiz	<ul> <li>Reading assignment: Insect Classification</li> <li>Norn Dichotomous Key activity</li> <li>Silly Science Group Dichotomous Key activity</li> </ul>
C) Research and create an insect fact booklet  Performance: 1.1, 1.2, 1.6, 1.7, 1.8, 2.1-2.4, 3.1, 3.5, 3.6  Knowledge: (CA) 1-4 (SC) 3,4,8  CAGLE: R.3.C; W.2.B; W.3.D; IL.1.B-D (All Gr. 6)  W.3.B; IL.1.A (All Gr. 5)  SCGLE: SC3.1.E; SC3.2.Ca (All Gr. 5)  NETS: (3-5) 1  DOK: 5,10	<ul> <li>Fact cards with bibliographic information</li> <li>Each fact book will include: <ul> <li>an introduction</li> <li>2 beneficial insects</li> <li>2 harmful insects</li> <li>2 invasive insects</li> <li>3 student choice</li> </ul> </li> </ul>	Research using the Internet and books     Model how to create fact cards and properly cite bibliographic information

importance for insect survival  Performance: 1.2, 1.3, 1.6, 1.8, 1.10, 3.1, 3.3, 3.6, 4.1 Knowledge: (MA) 1,3,4 (SC) 4 MAGLE: AR,1,C; DP.1.A (All Gr. 6) SCGLE: SC3.1.Aa; SC4.4.Ca,b (All Gr. 6) NETS: (3-5) 4 DOK: 2,3,4	Create a graph of the data from the Birds and Caterpillars activity Write a conclusion explaining the importance of defense mechanisms	Birds and Caterpillars science activity     Collect data
F) Distinguish between biological controls and posticides		1
Ŭ I	Teacher observation Quiz over Pathogens, Parasites and Predators	<ul> <li>Read: Integrated Pest Management</li> <li>Friend or Foe activity</li> <li>Biological Control activity</li> <li>PowerPoint: Pathogen, Parasite or Predator</li> </ul>
•	Graph data Classroom discussion Teacher observation	Chain Reaction activity     Collect data
Explain the adaptive features of plants and organisms •	Identify bee and flower anatomy Teacher observation/class discussion Bee Free Bar-B-Que Design Your Own Flower activity	<ul> <li>Review bee and flower anatomy</li> <li>How Does Pollination Work activity</li> <li>Activity 2 – Understanding how pollination affects the world's food supply</li> <li>Activity 3 – Adaptive structures</li> </ul>

honeybees and other beneficial insects  Performance: 1.1, 1.2, 1.6, 1.10, 2.1, 2.2 Knowledge: (CA) 1,3,4 (SC) 3,4,8 CAGLE: W.2.B,E (Gr. 6) SCGLE: SC3.1.Aa (Gr. 6); SC3.3.Ad (Gr. 8)  NETS: (SC3.1.Aa) (Gr. 6) SCGLE: SC3.1.Aa, SC4.1.Ba-c; SC4.1.Da-c (All Gr. 6); SCGLE: W.2.B (Gr. 6) SCGLE: SC3.1.Aa, SC4.1.Ba-c; SC4.1.Da-c (All Gr. 6); SCGLE: SC3.1.Aa, SC4.1.Ba-c; SC4.1.Da-c (All Gr. 6); SCGLE: SC3.1.Aa, b (Gr. 4) Dissect and learn about the anatomy of a grasshopper  Honeybee Newspaper  • Research using book the Internet  • Research using book the Internet  • Create an insect comic strip that explains a concern insects might have about the environment  • Insect Questivity #1 • Class discussion  • Insect Questivity #1 • Class discussion	Assessment/Evaluation Instructional Activit	ties
concerns that insects may have about the world  Performance: 1.2, 1.6, 2.1, 2.2 Knowledge: (CA) 1,4 (SC) 3,4,8 CAGLE: W.2.B (Gr. 6) SCGLE: SC3.1.Aa, SC4.1.Ba-c; SC4.1.Da-c (All Gr. 6); SC4.1.Aa,b (Gr. 4) NETS: N/A DOK: 2-4  J Dissect and learn about the anatomy of a grasshopper  Label the parts of a grasshopper  • Internet • Diagrams and inform grasshoppers  Performance: 1.2, 1.3 Knowledge: (CA) 1 (SC) 3,7 SCGLE: SC3.1.Aa (Gr. 6); SC3.2.Cc (Gr. 8) NETS: (3-5) 7	Honeybee Newspaper  • Research using books, magaz the Internet	zines and
• Diagrams and inform grasshoppers  Performance: 1.2, 1.3 Knowledge: (CA) 1 (SC) 3,7 SCGLE: SC3.1.Aa (Gr. 6); SC3.2.Cc (Gr. 8) NETS: (3-5) 7	bout the world insects might have about the environment • Class discussion	
	Diagrams and information all grasshoppers	bout