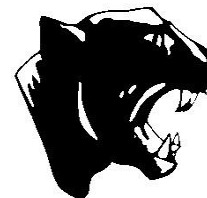


# Pittsfield Middle High School

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## Extended Learning Opportunity Program



### ELO Program Task Sheet

**Student Name:**    **ELO Title:** Environment and Honey Bees

<b>Task</b>	<b>Connected Competencies (Area/Number)</b>	<b>Due Date</b>	<b>Completed</b>
Independent research with Honey Bees	Biology 1		
Independent research with written summary: Environmental Factors <ul style="list-style-type: none"><li>• Environmental threats</li><li>• Human threats</li><li>• roles bees play in the environment</li><li>• how have plants evolved specific to pollination</li><li>• impact of climate change on pollinators</li><li>• plants that attract pollinators</li></ul>			
Independent research with written summary: symbiotic and competitive inter-species relationships.			
Independent research with written summary: colony collapse disorder, mutation, traits, changes in genetics			

Design and prepare environmental lab for climate change/pollination			
Begin environmental lab			
Super Bee research and paper			
Write 4 articles for local paper on initial research <ul style="list-style-type: none"> <li>• #1 Intro to current threats</li> <li>• #2 Impact of colony collapse disorder</li> <li>• #3 support for backyard bee keeping</li> <li>• #4 How individuals can support the honeybee population</li> <li>• #5 Reflection article (essay)</li> </ul>			
Thesis topic presented for research paper and tri-fold			
Life cycle diagram			
Evolution diagram			
Tri-fold and research paper symbiotic relationships and CCD, climate change			
Temperature lab and report			
Precipitation lab and report			
Bee Senses Lab and report			
Reflection article, all work completed for presentation of learning			
Presentation of learning			
Plant the gardens			
Planning for pollination gardens			