

<b>The Bee Science Club – Internal Temperature and Humidity in the Hive</b>	
<b>Overview</b>	<b>Notes</b>
<p>We will be focusing on the temperature and humidity in the hive.</p> <p>How important is the internal temperature of the hive? Focus on what the bees are doing in this video. (<i>Resources to help support internal temperature in the hive, below</i>).</p> <p>Watch Bee Science Club video.</p> <p><b>After watching question: “What did you observe in the video? What behaviours do you notice?”</b></p> <p><i>Are there scouts? Are there any robber scouts in the video that you observe?</i></p> <p><b>How does bee behaviour relate to the temperature and humidity of the hive?</b></p> <p>Recall any previous activities to help support your thinking.</p> <p><b>Refer to materials for support on questions.</b></p> <p><b>Bee Science Club video with several questions to respond to based on today’s video.</b></p> <p><b>Sign up for our Bee Science Club at <a href="http://wildflowerbeefarm.com">wildflowerbeefarm.com</a></b></p>	
<b>Materials</b>	
<ul style="list-style-type: none"> <li>- Approximate time: 20 minutes</li> <li>- Wild flower bee science club video 6: <a href="https://youtu.be/qqGbyqs1rX4">https://youtu.be/qqGbyqs1rX4</a></li> <li>- Internal Temperature of hive to survive winter: <a href="https://www.beepods.com/honey-bees-survive-winter-regulating-temperature-cluster/#:~:text=The%20optimal%20core%20temperature%20of%20exterior%20shell%20of%20the%20cluster.">https://www.beepods.com/honey-bees-survive-winter-regulating-temperature-cluster/#:~:text=The%20optimal%20core%20temperature%20of%20exterior%20shell%20of%20the%20cluster.</a></li> <li>- Bee hive temperature: <a href="https://busybeekeeping.com/bee-hive-temperature/">https://busybeekeeping.com/bee-hive-temperature/</a></li> <li>- How honey bees keep hive warm: <a href="https://www.honeybeesuite.com/how-do-honey-bees-keep-their-hive-warm/#:~:text=Honey%20bees%20do%20not%20move%20out%20from%20the%20center.&amp;text=In%20fact%2C%20the%20air%20inside%20the%20hive%20can%20be%20quite%20cold.">https://www.honeybeesuite.com/how-do-honey-bees-keep-their-hive-warm/#:~:text=Honey%20bees%20do%20not%20move%20out%20from%20the%20center.&amp;text=In%20fact%2C%20the%20air%20inside%20the%20hive%20can%20be%20quite%20cold.</a></li> </ul>	
<b>Goals</b>	
<ul style="list-style-type: none"> <li>- To understand the importance of hive temperature</li> </ul>	
<b>Lesson Objectives</b>	
<ul style="list-style-type: none"> <li>- To find out how hive temperatures are warmed by bees</li> <li>- To understand the importance of temperature in the hive</li> </ul>	
<b>Student Activities</b>	
<ul style="list-style-type: none"> <li>- Discussion about heating a hive</li> <li>- Researching hive temperatures and bee behaviour</li> <li>- Reflection on your own preferred temperatures</li> </ul>	

<b>Assessment of learning / Questions</b>	
<p><i>Research:</i> Ideal temperatures for hives – how are they regulated? How does bee behaviour relate to hive temperature and humidity? Present your findings to your friends and family.</p> <p><i>Reflection:</i> What is your favourite season? What is the climate? Are you a warm weather person or do you prefer the cooler temperatures?</p> <p><i>Complete:</i> A list of observations made from the BSC video.</p> <p><i>Extra:</i> Draw a picture of your favourite season. (ie. Fall, nice autumn sunset, leave changing colour) <b><i>Include your future bee hive, setup somewhere in the scenery.</i></b></p>	