

# Harrison James Bb Ph Indicator

## Experiment-

Bb =Bromothymol Blue

WALT	<ul style="list-style-type: none"><li>→ Make observations</li><li>→ Make inferences</li><li>→ Make connections</li><li>→ Create wonderings</li></ul>
Method	<ol style="list-style-type: none"><li>1. Fill cup with approx <math>\frac{1}{4}</math> cup of water</li><li>2. Add a few drops of BB</li><li>3. Place a straw in the liquid</li><li>4. Blow air through the straw</li></ol> <p>(like you are blowing bubbles with no spill)</p>
Hypothesis	When we blow into the straw I predict that bubbles will form on top of the water and they will be yellow.
Observation	as we dropped the bb into the water it slowly blended into the water, making it blue. As we blew into the water it slowly changed from blue to purple to green and finally to a yellow.
Inference	when we blew into the water we released carbon dioxide into the water converting the water with bb into a light acid.

Universal  
Indicator pH  
Colour chart



What has pH got to do with Antarctica?

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- sea ice, Antarctica has a lot of sea ice and sea ice has a large amount of salt. Salt is also very acidic. The pH of salt is mostly 7. The pH level for fish is 6.5-9 meaning that if ice melts in Antarctica the pH level of 7 could drop because there is a larger amount of salt meaning fish can die from low pH.

<p>What is the blue solution we used?</p>	<p>Bromothymol Blue Indicator Solution</p>										
<p>Reflection on Hypothesis</p>	<p>My hypothesis was partly correct because the solution did turn yellow but the bubbles did not stay on top of the water for a long period of time.</p>										
<p>How does this experiment relate to your daily life? E.g. classroom, home</p>	<p>This experiment relates to my daily life because it's talking about environmental issues such as the ocean.</p> <p>This also relates to my life because it is talking about ph levels and acidification, an example of this is a swimming pool. You have to measure the ph levels and add chlorine and other chemicals to maintain a neutral ph level.</p>										
<p>Reflection on your learning</p> <p><b>Antarctica Science Solo Rubric</b></p> <p><small>Gather &amp; Interpret data</small></p> <p><small>Students make careful observations and inferences between observations and inferences. Scientific knowledge is based on data derived from direct, or indirect, observations of the natural physical world and with multiple measures/variables. An inference is a conclusion you draw from observations - the meaning you make from observations. Understanding the difference is an important step towards being scientifically literate.</small></p> <table border="1"> <tr> <td data-bbox="115 1329 203 1371">  Prestructural         </td> <td data-bbox="203 1329 386 1371">           I need help to:           <ul style="list-style-type: none"> <li>- Gather data</li> <li>- Interpret data</li> <li>- Communicate data</li> </ul> </td> </tr> <tr> <td data-bbox="115 1371 203 1413">  Unistructural         </td> <td data-bbox="203 1371 386 1413">           I have been able to do one of the followings:           <ul style="list-style-type: none"> <li>- Gather data</li> <li>- Interpret data</li> <li>- Communicate data</li> </ul> </td> </tr> <tr> <td data-bbox="115 1413 203 1455">  Multistructural         </td> <td data-bbox="203 1413 386 1455">           I have done all of the followings:           <ul style="list-style-type: none"> <li>- Gathered data</li> <li>- Interpreted data</li> <li>- Communicated data</li> </ul> </td> </tr> <tr> <td data-bbox="115 1455 203 1497">  Relational         </td> <td data-bbox="203 1455 386 1497">           I have gathered and interpreted data from the experiment and communicated the findings of the experiment in relation to Antarctica.         </td> </tr> <tr> <td data-bbox="115 1497 203 1539">  Extended Abstract         </td> <td data-bbox="203 1497 386 1539">           I have applied my knowledge from the experiment to a different context.         </td> </tr> </table>	 Prestructural	I need help to: <ul style="list-style-type: none"> <li>- Gather data</li> <li>- Interpret data</li> <li>- Communicate data</li> </ul>	 Unistructural	I have been able to do one of the followings: <ul style="list-style-type: none"> <li>- Gather data</li> <li>- Interpret data</li> <li>- Communicate data</li> </ul>	 Multistructural	I have done all of the followings: <ul style="list-style-type: none"> <li>- Gathered data</li> <li>- Interpreted data</li> <li>- Communicated data</li> </ul>	 Relational	I have gathered and interpreted data from the experiment and communicated the findings of the experiment in relation to Antarctica.	 Extended Abstract	I have applied my knowledge from the experiment to a different context.	<p>I feel that I would rate my learning at the solo level of Extended Abstract because I have taken my information and compared it to an environmental issue and come up with the problem.</p>
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<p>Ocean Acidification-</p>	<p><a href="#">Ocean Acidification in Antarctica</a></p> <p>Key words-</p> <ul style="list-style-type: none"> <li>- Ocean acidification</li> </ul>										

- Carbon Dioxide (CO<sub>2</sub>)
- Cold water ecosystems
- Southern ocean
- Sea water (salt)
- Sea surface
- Rising globally
- Natural
- Calcium
- Acid and alkali of pH 7

