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|  | [Note: Best if viewed at Full Screen]  Experiment     Procedure for Optimum pH:  Note: This procedure should be started in the morning, as the first day is a very critical one and the experiment requires a great deal of attention.  1) Attain [Materials](http://docs.google.com/exp.html):   * 21 Quarts of Neutral Water * 105 Tadpoles * 7 Buckets, Labeled 4, 5, 6, 7, 8, 9, 10 * [Rice Vinegar](http://docs.google.com/ricevin.jpg) * [Ammonia](http://docs.google.com/ammonia.jpg)   2) Fill each bucket with three quarts of neutral water  3) Using conversion tables, determine the amount of ammonia (alkaline) and rice vinegar (acidic) you will need to mix in with the three quarts of water in each bucket to bring the pH in each bucket to the appropriate level (i.e. the amount of rice vinegar to mix in with the water in bucket �4� to bring the pH in the bucket down to 4.  4) Mix in the appropriate amount of chemicals into each bucket.  It will not be necessary to mix anything in to bucket �7,� as it is already neutral  5) Test the pH of each bucket to ensure that they are at the desired level  6) Introduce 15 tadpoles into each bucket.  7) Monitor the tadpoles closely for the first hour, as this is the most critical time in the experiment.   Record any deaths in each bucket, and the amount of time it took for them to die.  8) After the first hour, monitor the tadpoles in each bucket once an hour for the rest of the day.  Once again, record any deaths along with the times.  9) On the second day, check the tadpoles three times per day, recording the same information as in the previous two steps.  10) On every day after this, until the eighth day, check the tadpoles twice daily, recording the same information as in the previous three steps.  11) At the end of the week, take note of all the buckets in which the tadpoles are still living.  If the bucket contains living tadpoles, then the pH level of the water in the bucket can be said to be within the tadpoles� optimum pH.  [Back to Materials](http://docs.google.com/exp.html)       [Back To Survial in Environment](http://docs.google.com/exp2.html) |

*This Web Site is Best viewed with 256 or more colors.*

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