Acids and Bases

# See the source imageCandy Lab

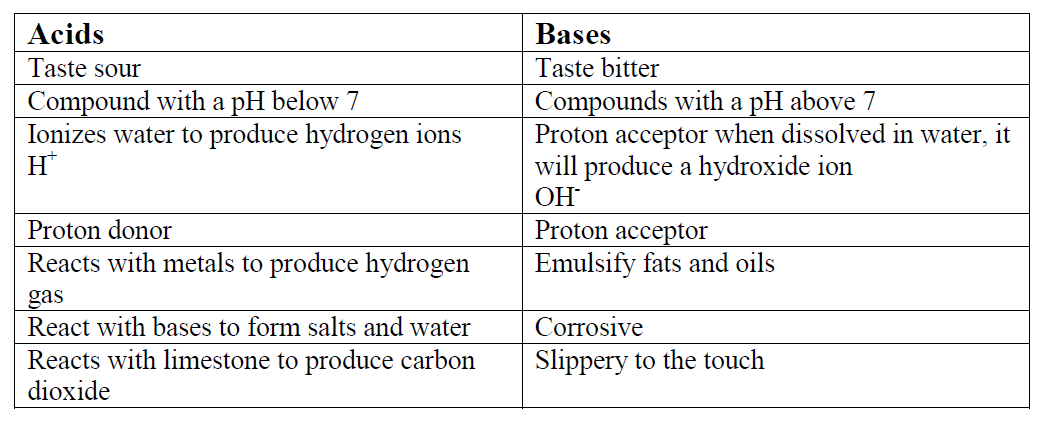
**Materials:**

* Warheads (2 per pair)
* Dark Chocolate (2 squares per pair)
* Pixie Stix (1 per pair)
* 50 mL Beaker
* pH Paper
* Glass stirring rod
* 25 mL graduated cylinder

**Procedure:**

1. Take a sour patch candy and taste it.
2. Write down your observations
   1. What did it taste like?
   2. Based on the taste what type of chemical do you think it is (use Table 1 for guidance)
3. Take a square of chocolate and taste it.
4. Write down your observations
   1. What did it taste like?
   2. Based on the taste what type of chemical do you think it is (use Table 1 for guidance)
5. Obtain a 50 mL beaker and put 25 mL of water into it
6. Now dissolve one of the Pixy Stix in it and stir with a glass stirring rod.
7. Test the solution using pH paper – **DO NOT DRINK IT** – dip the pH paper into the solution
8. What pH does the Pixy Stix have?
9. What type of chemical is this?

**Table 1**: Properties of Acids and Bases



**Application Questions:**

1. Why are acidic candies problematic to human teeth?
2. What can we do to protect our teeth from acid?