

# Blue Maize Indicator Worksheet

## Data Tables and Observations

Data Table 1

| Blue Maize Flour Indicator Chart |       |    |       |
|----------------------------------|-------|----|-------|
| pH                               | Color | pH | Color |
| 2                                |       | 8  |       |
| 4                                |       | 10 |       |
| 6                                |       | 12 |       |

Data Table 2

| Solution                      | Indicator Color Change | pH |
|-------------------------------|------------------------|----|
| Hydrochloric acid, HCl, 0.1 M |                        |    |
| Sodium hydroxide, NaOH, 0.1 M |                        |    |
|                               |                        |    |
|                               |                        |    |
|                               |                        |    |
|                               |                        |    |

## Post-Lab Questions

- Which tested solutions are acidic? What evidence supports this?
- Which tested solutions are basic? What evidence supports this?
- Are any of the tested solutions neutral or nearly neutral (pH 6–8)? If so, which one(s)?
- Based on the results, which solutions would be considered strongly acidic? Which are strongly basic?
- Compare your results with those of other students.
  - In what types of products are most household bases found? What characteristics do bases have in common?
  - In what types of products are most household acids found? What characteristics do acids have in common?