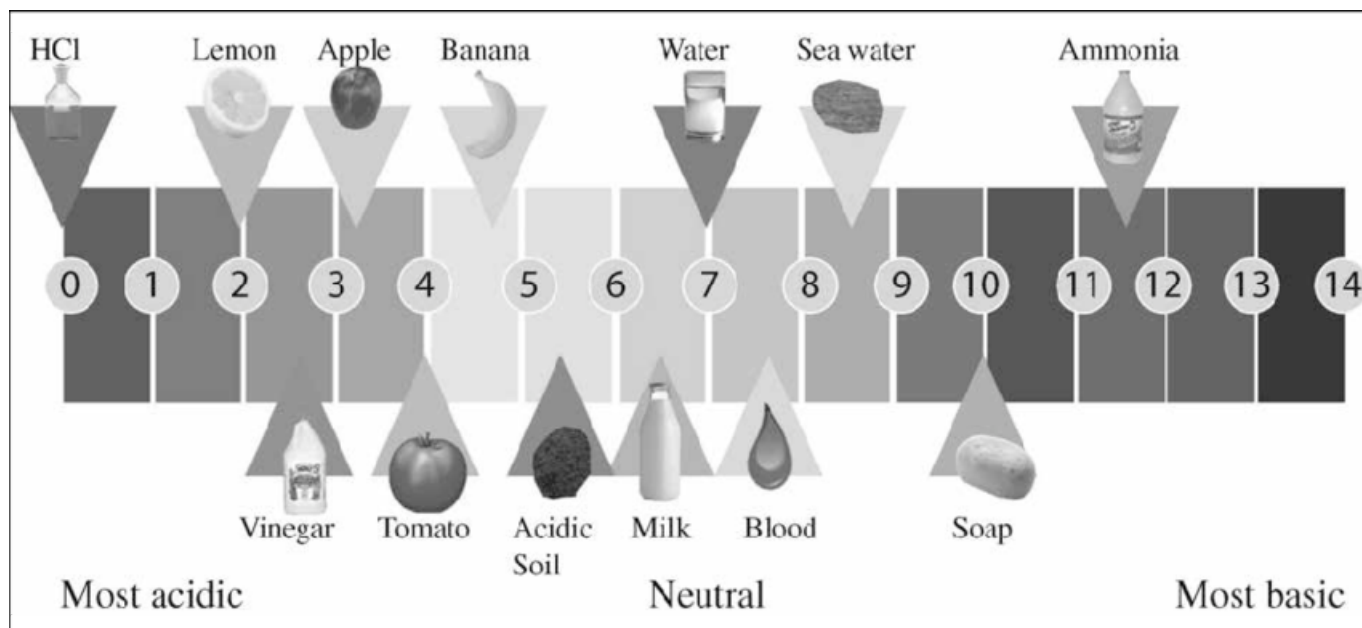


Worksheet: Acids and Bases



Acids: low pH; release H^+ ions in water; orange or red with universal indicator

Bases: high pH; release OH^- ions in water; blue or purple with universal indicator

Questions

1. What has a higher pH value: vinegar or sea water?
2. Which of these substances would release more H^+ ions in water: ammonia or lemon juice? Explain your answer.
3. Which is more acidic: an apple or a banana? How can you tell?
4. What colour would these substances be if combined with universal indicator:
 - (a) vinegar?
 - (b) water?
 - (c) ammonia?
5. A substance has a pH of 7. What does this indicate about its acidic or basic nature?
6. You have water and you slowly add lemon juice. How would the colour change if treated with universal indicator?