

# Acid, Base or Neutral?

## The Red Cabbage Experiment

**QUESTION**  
Which substances are acids, bases or neutral?

**HYPOTHESIS**  
Red cabbage juice will be used as an indicator to test if a substance is an acid, base or neutral.

### RESEARCH

Acids are substances that have a pH value below 7. Bases are substances that have a pH value above 7. Neutral substances have a pH value of 7.

### MATERIALS

- Red Cabbage
- Hot Water
- Test Chemicals
- Indicator
- Beakers
- Pipettes
- Test Tubes
- Test Tube Holders
- Safety Goggles
- Lab Coat

### PROCEDURE

1. Chop up red cabbage into small pieces.
2. Boil the cabbage in hot water for 10 minutes.
3. Strain the liquid and let it cool.
4. Use the liquid as an indicator to test various substances.
5. Record the color change and determine if the substance is an acid, base or neutral.

### RESULTS

Test Chemical	Acid	Base	Neutral
Vinegar	✓		
Baking Soda		✓	
Tap Water			✓
Hydrochloric Acid	✓		
Sodium Hydroxide		✓	
Distilled Water			✓
Ammonia		✓	
Washing Liquid	✓	✓	
Orange Juice	✓		
Soft Drink	✓		
Distilled Water			✓



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