



Experiment Title	Chemical Name	Concentration
Vinegar Analysis	Sodium hydroxide	0.5 M
Vinegar Analysis	Phenolphthalein indicator	0.1% w/v
Lab Review Challenge	Strontium hydroxide	solid
Lab Review Challenge	Hydrochloric acid	3 M
Lab Review Challenge	Hydrochloric acid	6 M
Lab Review Challenge	Phenolphthalein indicator	0.1% v/v
Qualitative Kinetics	Hydrochloric acid	6 M
Qualitative Kinetics	Hydrochloric acid	3 M
Qualitative Kinetics	Hydrochloric acid	1.5 M
Qualitative Kinetics	Hydrochloric acid	0.75 M
Qualitative Kinetics	Magnesium strips	solid
Qualitative Kinetics	Zinc strips	solid
Qualitative Kinetics	Copper strips	solid
Qualitative Kinetics	Sodium chloride (rock salt)	solid
Qualitative Kinetics	Sodium thiosulfate	0.1 M
Qualitative Kinetics	Hydrochloric acid	0.1 M
Qualitative Kinetics	Starch indicator solution	0.1% w/v
Qualitative Kinetics	Potassium iodide	0.01 M
Qualitative Kinetics	Hydrochloric acid	0.1 M
Qualitative Kinetics	Sodium thiosulfate	0.001 M
Qualitative Kinetics	Potassium bromate	0.04 M
Qualitative Kinetics	Ammonium molybdate reagent	n/a
Quantitative Kinetics	Potassium iodate	0.0240 M
Quantitative Kinetics	Sodium bisulfite	0.0160 M
Quantitative Kinetics	Starch indicator solution	0.1% w/v
Equilibrium/Le Chatelier Principle	Ammonium chloride	saturated
Equilibrium/Le Chatelier Principle	Hydrochloric acid	12 M
Equilibrium/Le Chatelier Principle	Acetic acid	1 M
Equilibrium/Le Chatelier Principle	Ammonium chloride	solid
Equilibrium/Le Chatelier Principle	Sodium acetate trihydrate	solid

Experiment Title	Chemical Name	Concentration
Equilibrium/Le Chatelier Principle	Sodium hydroxide	1 M
Equilibrium/Le Chatelier Principle	Methyl violet indicator	0.05% w/v
Equilibrium/Le Chatelier Principle	Hydrochloric acid	6 M
Equilibrium/Le Chatelier Principle	Cobalt (II) chloride	0.1 M
Equilibrium/Le Chatelier Principle	Sodium hydroxide	0.1 M
Equilibrium/Le Chatelier Principle	Bromocresol green indicator	0.04% w/v
pH Study	Hydrochloric acid	0.010 M
pH Study	Hydrochloric acid	0.0010 M
pH Study	Hydrochloric acid	0.00010 M
pH Study	Sodium hydroxide	0.0010 M
pH Study	Acetic acid	0.010 M
pH Study	Acetic acid	0.0010 M
pH Study	Acetic acid	0.00010 M
pH Study	Ammonium hydroxide	0.0010 M
pH Study	Sodium chloride	0.10 M
pH Study	Sodium acetate	0.10 M
pH Study	Ammonium chloride	0.10 M
pH Study	Ammonium acetate	0.10 M
pH Study	Sodium bicarbonate	0.10 M
pH Study	Sodium hydroxide	6 M
pH Study	Sodium acetate	solid
pH Study	Acetic acid	6 M
pH Study	buffer, pH 4, red	n/a
pH Study	buffer, pH 7, yellow	n/a
pH Study	buffer, pH 10, blue	n/a
Solubility Study (Common Ion)	Calcium hydroxide solution	saturated
Solubility Study (Common Ion)	Calcium hydroxide with 2% calcium chloride	saturated
Solubility Study (Common Ion)	Thymol blue indicator (NaOH & H2O)	0.04% w/v
Solubility Study (Common Ion)	Bromophenol blue (ethanol)	0.01% w/v
Solubility Study (Common Ion)	Phenol Red (H2O)	0.04% w/v
Solubility Study (Common Ion)	Cresol Red (NaOH & H2O)	0.4% w/v

Experiment Title	Chemical Name	Concentration
Solubility Study (Common Ion)	Alizarin Yellow (ethanol)	0.1% w/v
Solubility Study (Common Ion)	Bromothymol blue (ethanol)	0.1% w/v
Solubility Study (Common Ion)	Bromocresol Green (ethanol)	0.1% w/v
Solubility Study (Common Ion)	Thymolphthalein (ethanol)	0.04% w/v
Solubility Study (Common Ion)	Methyl Red (ethanol)	0.1% w/v
Solubility Study (Common Ion)	Methyl orange (water)	0.1% w/v
Solubility Study (Common Ion)	Phenolphthalein (ethanol)	0.1% w/v
Solubility Study (Common Ion)	Congo Red (ethanol)	0.1% w/v
Oxygen Bomb Calorimetry	Benzoic acid	solid
Electrochemistry	Copper sulfate	1 M
Electrochemistry	Zinc sulfate	1 M
Electrochemistry	Potassium nitrate	1 M
Electrochemistry	Copper strips (electrodes)	solid
Electrochemistry	Copper strips (electrodes)	solid
Electrochemistry	Zinc strips	solid
Electrochemistry	Magnesium strips (on wood sticks)	solid
Electrochemistry	Acetone	liquid
Metals in Cereal by ICP	Hydrochloric acid	6 M
Metals in Cereal by ICP	Nitric acid	8 M
Metals in Cereal by ICP	Hydrochloric and nitric acid mixture	5%v/v
Metals in Cereal by ICP	Ion Cocktail standard	5% v/v
pH Titration	Sodium hydroxide	0.1 M
pH Titration	Potassium hydrogen phthalate	solid
pH Titration	buffer, pH 4, red	n/a
pH Titration	buffer, pH 7, yellow	n/a
pH Titration	buffer, pH 10, blue	n/a
pH Titration	Phenolphthalein indicator	0.1% w/v
pH Titration	Thymol blue indicator (NaOH & H ₂ O)	0.04% w/v
pH Titration	Bromophenol blue (ethanol)	0.1% w/v
pH Titration	Phenol Red (H ₂ O)	0.04% w/v

Experiment Title	Chemical Name	Concentration
pH Titration	Cresol Red (NaOH & H ₂ O)	0.4% w/v
pH Titration	Alizarin Yellow (ethanol)	0.1% w/v
pH Titration	Bromothymol blue (ethanol)	0.1% w/v
pH Titration	Bromocresol Green (ethanol)	0.1% w/v
pH Titration	Thymolphthalein (ethanol)	0.04% w/v
pH Titration	Methyl Red (ethanol)	0.1% w/v
pH Titration	Methyl orange (water)	0.1% w/v
pH Titration	Phenolphthalein (ethanol)	0.1% w/v
pH Titration	Congo Red (ethanol)	0.1% w/v

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