Summer Session 2024 – Equipment and Materials

Chemistry 112:

The labs are designed to be completed at home without access to the resources of a school. A scale for measuring mass is used in multiple labs and students will have to acquire one. There is an inexpensive scale (\$20) available on Amazon: <u>Digital Scale</u>.

All other materials are listed by laboratory:

Conservation of Mass Lab: Conductivity Lab: ■ 10 small beakers or cups scale deionized or distilled water (0.5L) 2 small beakers or cups unfiltered tap water (60mL or ¼ cup) 50 mL vinegar (weak acetic acid) ■ table sugar (6g or 1 teaspoon) ■ 10 mL baking soda (sodium vinegar (60mL or ¼ cup) bicarbonate) ■ table salt (6g or 1 teaspoon) Alka-Seltzer tablets chalk dust (6g or 1 teaspoon) balloon lemon juice (60mL or ¼ cup) conductivity tester OR materials to build a conductivity tester (battery, small light bulb, wires) **Stoichiometry Lab:** scale 2 small beakers or cups 50 mL vinegar (weak acetic acid) ■ 10 mL baking soda (sodium bicarbonate)

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Chemistry 122:

The labs are designed to be completed at home without access to the resources of a school. A scale for measuring mass and a thermometer are used in multiple labs and students will have to acquire both. There is an inexpensive scale (\$20) available on Amazon: <u>Digital Scale</u>. There is also an inexpensive thermometer (\$20) available on Amazon: <u>Digital Thermometer</u>.

All other materials are listed by laboratory:

Specific Heat Capacity Lab:	Alka-Seltzer Lab:
 600mL beaker / pot for heating water styrofoam cup OR coffee mug thermometer scale 2 metal objects (iron nail, aluminum foil, copper wire,) 	 small beaker or cup thermometer scale 10 tablets of Alka-Seltzer mortar and pestle (or something with which to grind tablets) food coloring OR 2 glow sticks.
Spontaneity Lab: package of matches deck of cards 10 coins	Isomer Models Lab: ■ package of toothpicks ■ bag of mini-marshmallows
Milk to Plastic Lab: 600mL beaker / pot for heating milk 250mL (1 cup) of milk 20 ml of vinegar	