## **Grocery Store Nomenclature Lab; SC1d**

Chemicals are not just for chemistry class. We use chemicals every day and in everything we buy. The purpose of this lab is to determine the identity of numerous unknown chemicals using the provided clues and to correctly write the chemical names and formulas for each identified compound. This lab may be completed as a web quest or a take-home lab. You will need to use information from the Naming Podcasts and your composition books to help you.

Chemical Name	Chemical Formula	Clue	Products containing this chemical
		A carbon-containing acid.	vinegar
		An ionic compound containing four ions per formula unit. The cation is polyatomic.	bread
		An ionic compound with a polyatomic cation and polyatomic anion. The atoms in the anion are all from the same group.	Fertilizer Yeast nutrient
		An ionic compound containing two ions per formula unit. The cation has 18 electrons. The polyatomic anion contains C & has a charge of 2	Antacids Pet food
		The one cation and two anions each have 18 electrons.	Pickled products, olives
		An ionic compound that contains five ions per formula unit. The cation has 18 electrons.	yogurt
		An ionic compound containing two ions per formula unit. The cation has 18 electrons. The polyatomic anion contains 5 atoms (1 of which is sulfur) and has a charge of 2-	bread
		An ionic compound containing 2 ions per formula unit. The cation contains 27 electrons. The polyatomic anion contains 5 atoms (1 of which is sulfur) and has a charge of 2	Pet food
		The anion is polyatomic bus consists of just one type of atom. The cations have no electrons.	Antiseptic, hair lightener
		An ionic compound containing two ions per formula unit. The cation contains 24 electrons. The polyatomic anion contains 5 atoms (1 of which is sulfur) and has a charge of 2	Pet food, spaghetti, plant nutrient
		An ionic compound containing two ions per formula unit. The cation has 10 electrons. The polyatomic ion contains 5 atoms (one of which is sulfur) and has a charge of 2	Laxative Soaking agent

An ionic compound containing two ions per formula unit. The cation contains 23 electrons. The polyatomic ion contains 5 atoms (1 of which is Sulfur) and has a charge of 2	Pet food
An acid with three hydrogens.	Soft drinks (pop)
The one cation and one anion each have 18 electrons.	soup
An ionic compound with two ions per formula unit. The anion has 3 times as many electrons as the cation.	Iodized table salt
A Type III binary compound containing three atoms per molecule. The total number of protons is 30.	Bouillon cubes
The polyatomic anion contains the elements 1, 6, and 8. The cation has 10 electrons.	Croutons, salty snacks
The anion has 5 atoms and has a common name different from its systematic name. The cation has 10 electrons.	cookies
There are 2 ions per formula unit in this compound. The 1- anion has 8 more electrons than the cation.	Table salt Salted snacks
A binary ionic compound in which the anion and cation each have 10 electrons.	toothpaste
An ionic compound consisting of a cation with 10 electrons and an oxyanion with 26 electrons.	bleach
An ionic compound that contains three times as many cations as anions. The cation has 10 electrons and the anion is polyatomic	Cleaning products Yogurt
An ionic compound containing 2 ions per formula unit. The cation contains 28 electrons. The atoms in the polyatomic anion are in the same group on the periodic table.	Pet food